

2016  
EDITION

# The Essential Optical Product Guide



*Discover New Imaging Horizons*

- Astronomical Telescopes
- Binoculars
- Spotting Scopes
- Tripods
- Microscopes



**Optical Vision Ltd**  
[www.opticalvision.co.uk](http://www.opticalvision.co.uk)



## INTRODUCTION

When Galileo built his first telescope in 1609, he began a journey of cosmic exploration, which thousands of interested sky-gazers have embarked upon since.

His telescope was a crude refractor, giving around 20x magnification, smaller and optically far inferior to even children's telescopes of today, yet the views revealed through it were as wondrous to him as those of the Hubble Space Telescope are to us today, nearly 400 years later. Maybe even more so. In his journal, he wrote after his few nights of wonder;

*'I render infinite thanks to God, for being so kind as to make me alone the first observer of marvels kept hidden in obscurity for all previous centuries.'*

Imagine how that must have been, being the first person ever to see the craters and mountains of the Moon, the glorious rings of Saturn, the dancing moons of Jupiter, as well as hundreds of other stars and celestial mysteries not even visible to the naked eye. There is something about a "live" view through a telescope that is very difficult to capture in photographs, no matter how spectacular. What is it? Is it the crystal clarity? Is it the crisp resolution and brightness? Is it the simple fact that your celestial destination is before your eyes clearly and presently right in this moment? Whatever it is, it has attracted people to astronomy for centuries, and never more so in the past decade.

Modern telescope making has advanced the simple designs of Galileo and Isaac Newton (inventor of the reflector telescope) to state-of-the-art, and prices have dropped considerably, making telescopes of excellent optical quality available to everyone. Owning a telescope today is an investment in wonder, excitement and enjoyment. Whether you are pursuing a serious career in advanced astronomy or you simply like to be out under a night sky awash with stars, piloting your own imaginary starship through the galaxy and beyond, a telescope can help you begin the journey. For a relatively small outlay you will have a scope capable of wonderful tours of the solar system and beyond. When you look through the eyepiece as the rings of Saturn come into focus, whether it's for the first time or the hundredth time, chances are, you will pause for a moment, and say,

**'Wow'**

Picture taken through Sky-Watcher 80/400 Refractor (Startravel-80)

Photo courtesy of William Ronald, Vancouver, BC, Canada

(Warning: Specialist Safety Filtering should always be used when directly viewing the Sun)

A telescope is an optical instrument, which brings distant objects closer for examination. It usually consists of a tube containing the optics, and a mounting with a tripod to point it at its target. The optical tube consists of an objective (either a mirror or lens), which gathers light and focuses it to an image, and an eyepiece, which magnifies the image for the eye to see.

There are two applications for a telescope: spotting terrestrial objects during the day, and studying astronomical objects at night. Although any telescope may be used for either, there are certain features desirable for each.

Since the astronomical telescope is used at night to observe faint objects, it is advantageous to have a larger diameter objective to ensure greater light transmission. The objective can be a lens (refractor), or a mirror (reflector), or a combination of both (catadioptric). The larger the objective is, the greater the brightness and resolution will be, so telescopes with larger objectives can be used at higher magnifications usually with much better results.

### Telescope Magnifications

As a general rule of thumb, a telescope is capable of magnifying an object approximately 50x-75x per inch (or 2x-3x per mm) of aperture (objective diameter), so a 4" (100mm) telescope has the potential to magnify approximately 200x-300x. The optical quality, configuration of the telescope and seeing conditions however, will be deciding factors as to what useful magnification a particular telescope can achieve.

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Atmospheric turbulence usually restricts practical magnifications to a maximum limit of about 300x, or slightly more in rare cases. Above the magnification limit, the image becomes too blurry for useful observing. It should be carefully noted that for many astronomical observations high magnifications are not necessary and much better results are often achieved by using lower power. The telescopes described in this catalogue are all supplied with various combinations of eyepieces and in some cases a Barlow lens. The magnification ranges quoted for many of the telescopes in this catalogue are simply those achievable with the standard accessories, and can be increased or decreased as necessary with the addition of the optional accessories that are described later in the catalogue, within the optimum boundaries of the telescopes capability.



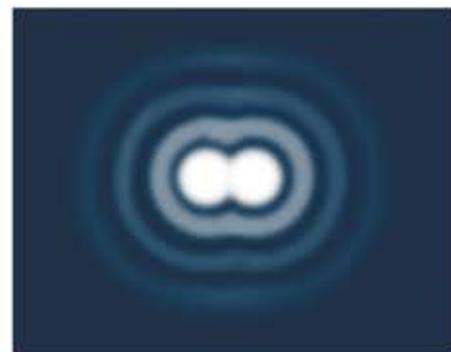
**Left:** Moon at appropriate magnification under good sky conditions.

**Right:** Above the magnification limit, the image becomes too blurry for useful observing.

### Resolution

The most important factors in a telescope are the aperture (or light gathering capability), and the quality and accuracy of their optics. The aperture determines the telescope's ability to resolve small or distant objects and to reveal fine detail. Resolution can be defined as how much detail a particular telescope can see. If the diameter of the aperture is twice as big on a similar quality telescope, then the resolving power should be twice as good. Resolution is stated in arc-seconds and there are sixty arc-seconds in an arc-minute and sixty arc-minutes in a degree.

In short: The bigger the aperture, the higher the resolution and therefore the better the image!!



The resolving power of a telescope can be described as its ability to separate two closely related stars into their Airy Disks.

# INTRODUCTION

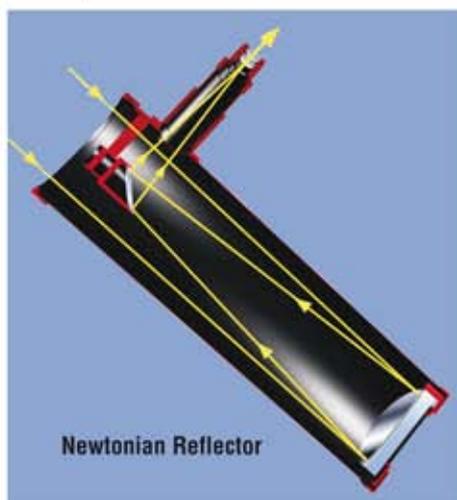
$F\text{ratio} = \frac{\text{Focal length of the telescope}}{\text{Aperture of the telescope}}$
$\text{Highest Practical Power} = \frac{2x \text{ per aperture in mm}}{\text{or}} \frac{50x \text{ per aperture in inch}}$
$\text{Magnification} = \frac{\text{Focal length of the telescope}}{\text{Focal length of the eyepiece}}$
$\text{Resolving Power} = \frac{116}{\text{Aperture in mm}}$ (Dawson's Limit) $\text{or} \frac{4.54}{\text{Aperture in inch}}$
$\text{True Field of View} = \frac{\text{Eyepiece Apparent Field}}{\text{Magnification}}$
$\text{Exit Pupil} = \frac{\text{Aperture of the telescope}}{\text{Magnification}}$

\*To calculate the magnification using a Barlow lens, use the formula (above) and multiply the result by the magnification of the Barlow lens, x2, x3 etc.

By using the magnification formula, one can calculate what accessories (eyepieces, Barlow lenses etc.) could be purchased for a telescope to achieve a greater range of useful magnifications than those achievable with the standard accessories supplied.

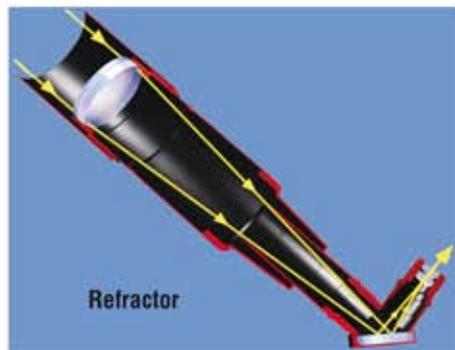
## The Newtonian Reflector

This most common type of reflector telescope uses a concave objective mirror (primary mirror) at the back of the tube and a secondary mirror, which directs the light to the eyepiece. Since the light rays entering the telescope reflect off the mirrors and don't pass through the glass, no false colour is produced. Orientation of the image is not important for astronomy so the image is left uncorrected. The Newtonian reflector represents excellent value for money as typically they offer more aperture for a given price than other types of telescope.



## The Refractor

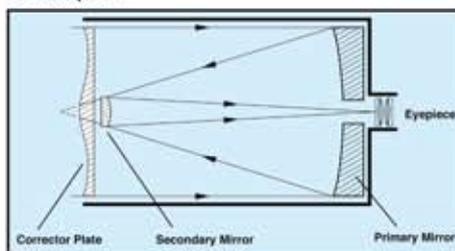
Refracting telescopes have an objective lens at the front of the tube. The light exits out through the back of the tube to the eyepiece. Since many observations are made high in the sky, a right-angle diagonal is used to avoid neck strain. This also provides an upright image making them suitable for terrestrial observations. A refractor has several advantages over other designs. The tubes are enclosed so that dust and moisture do not enter the tube, they have fixed optics that do not normally require collimation, and they do not have a central obstruction which reduces the light entering the tube. A refractor typically will give higher quality images of planets than other telescopes of similar aperture.



## The Catadioptric

Telescopes using a combination of both mirrors and lenses are called catadioptrics. There are many different designs. One example is the optically excellent Maksutov-Cassegrain design. Usually a full aperture lens is used to correct aberrations in a compound reflecting telescope. The corrector lens also increases the performance of the instrument as air currents are eliminated. The main advantage of the design is that, because the light path is folded back on itself, it provides a very portable, short physical length telescope with a long focal length.

### Catadioptric



Astronomical Objects do not require a telescope with erecting views as there is no 'Up' or 'Down' in space.



### Image Orientations

	Original image
	Inverted image seen through a reflector
	Mirrorreversed image seen through a refractor

## Telescope Mountings

A mounting with a tripod is necessary to point a telescope at its target, and to hold it there securely. A larger, sturdier mount is necessary for heavier telescopes. There are two basic types of mountings, and each is suitable for different applications.

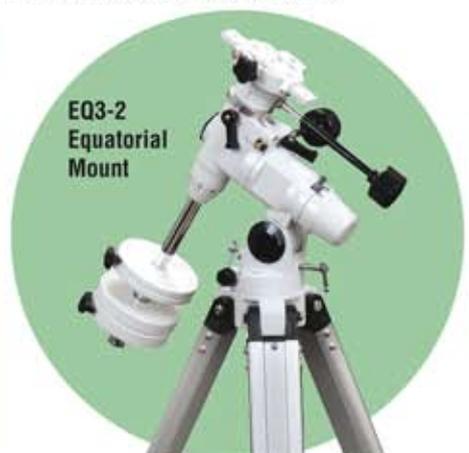
### The Alt-Azimuth Mount

The Alt-azimuth mounting is a simple system which moves in two directions; sideways, and up and down, and is sometimes provided with slow motion cable controls to accurately point the telescope. This type of mounting is ideal for terrestrial observations and can also be of use for basic astronomical observations.



### The Equatorial Mount

There are several different models of equatorial mount offered in this catalogue, and the principle of all of them is the same. That principle is to correct for the rotation of the Earth with one motion during astronomical observations. The Earth's rotation causes objects to rise in the East, follow a circular path across the sky and set in the West. When using an astronomical telescope at high power, it will only take approximately 30 seconds for the object to move out of the field of view. The equatorial mounting allows the telescope to track the objects and to keep the image in the centre of the eyepiece. When the equatorial mount is correctly aligned, tracking can be achieved either by turning a gear manually or with a motor drive which tracks objects automatically. Computerised, intelligent GO-TO versions are also available.



# Sky-Watcher®

**PERFORMANCE  
PRECISION & VALUE**

**ASTRONOMICAL TELESCOPES**

Sky-Watcher is a First-Class, Market Leading telescope brand offering an incredible range of high quality astronomical telescopes and accessories, catering for users of all age groups and abilities, from the novice right up to the serious advanced astronomer. Sky-Watcher astronomical telescopes perfectly integrate modern optical technology with precision mechanical engineering, resulting in designs of superb functionality, versatility and uncompromising levels of performance.



### Sir Patrick Moore Endorsed Sky-Watcher Telescopes

*"I have used a great number of telescopes; some are good, some mediocre and some bad. To me the Sky-Watcher range of instruments are very good indeed, & suited to amateurs of all kinds – and they are not priced out of the market! Excellent value. Use them and enjoy them."* Sir Patrick Moore CBE FRS (1923-2012)

## SUPATRAK™ AUTO-TRACKING TELESCOPES

The SupaTrak™ Auto-Tracking motorised Alt-Azimuth Mount, with its built-in dual-axis multi-speed Servo motors is ideal for both Astronomical & Terrestrial use. In Astronomical mode, after following the simple set-up procedure, the SupaTrak™ mount is capable of emulating an equatorial mount, tracking astronomical objects automatically. The SupaTrak™ offers speeds of 1x, 4x or 8x sidereal rate speeds in 'Tracking-On' mode, or a choice of 32x, 64x or 800x high-speed slewing in 'Tracking-Off' mode. The fully motorised mount is convenient, practical, lightweight and easy to set-up and is ideal for both beginners and experienced users alike.

Explorer-130P  
SupaTrak™ AUTO  
Prod.Code 10127



**Astronomy  
HOT  
Product**

*"I was most impressed by the views revealed by the 'scope during tests ...Despite a phase of nearly 96%, the waxing gibbous Moon revealed a seemingly inexhaustible amount of fine detail!"* Astronomy Now Magazine

*"The new SupaTrak™ mount shares more than a passing resemblance to the Celestron SLT, but the somewhat quieter and heavier duty SupaTrak™ sports a more robust Vixen-style dovetail clamp.... I found that the SupaTrak™ was capable of following a celestial object at high magnifications for tens of minutes before slowly drifting out of the field of view, which is perfectly adequate for visual use or simple webcam imaging.... If you are looking for an intuitive and far less intimidating user experience than that offered by cheaper Go-To mounts, the SupaTrak™ is highly recommended as a versatile grab-and-go system."* Ade Ashford, [www.scopetest.com](http://www.scopetest.com)

### EXPLORER-130P SUPATRAK™ AUTO

**130mm (5.1") f/5 MOTORISED PARABOLIC REFLECTOR** The Explorer-130P OTA has already been heaped with much praise and accolade by the media and astronomy press for its excellent Parabolic optics. It is highly recommended for the beginner or experienced observer wanting excellent results, from a telescope of decent aperture and of manageable proportions. Whether your interest is Deep-Sky, the Moon and Planets, or a combination of both, the Explorer-130P offers excellent all-round diffraction-limited performance.

- Magnifications (with optics supplied): x26, x52, x65, x130 • Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm • Telescope Focal Length: 650mm (f/5) • Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens • 6x30 Finderscope • 0.5mm Ultra-Thin Secondary Mirror Supports
- SupaTrak™ Heavy-Duty Motorised Multi-Speed Auto-Tracking Alt-Azimuth Mount • 30% more Light Gathering than 114mm
- Power Requirement: 12v DC Power Supply (Tip Positive) or AA Batteries (not supplied) • Aluminium Tripod & Accessory Tray

### SKYMAX-127 SUPATRAK™ AUTO 127mm (5") f/11.8 MOTORISED MAKUTOV-CASSEGRAIN

The highly-acclaimed Skymax-127 Maksutov-Cassegrain excels for high-power Lunar, Planetary and Double-Star observations, as well as for daytime terrestrial use. The Skymax-127 features a compact but extremely powerful, high contrast, high resolution diffraction-limited optical system. High transmission multi-coatings are employed on all optical surfaces for optimum performance.

### SYNSCAN™ GO-TO UPGRADE

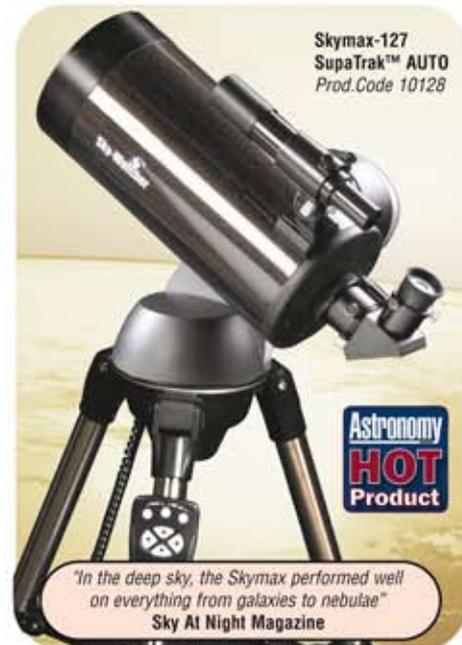
SupaTrak™ and Heritage Virtuoso™ telescopes can be upgraded to Go-To with the addition of a SynScan™ AZ handset and cable.

Prod.Code 20948/20160



- Magnifications (with optics supplied): x60, x120, x150, x300
- Diameter of Primary Mirror: 127mm
- Telescope Focal Length: 1500mm (f/11.81)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- 6x30 Finderscope
- 90° Star Diagonal 1.25"
- Multi-Coated Optics
- Aluminium Tripod with Accessory Tray
- SupaTrak™ Heavy-Duty Motorised Multi-Speed Auto-Tracking Alt-Azimuth Mount
- Power Requirement: 12v DC Power Supply (Tip Positive) or AA Batteries (not supplied)

Skymax-127  
SupaTrak™ AUTO  
Prod.Code 10128



**Astronomy  
HOT  
Product**

*"In the deep sky, the Skymax performed well on everything from galaxies to nebulae"*  
Sky At Night Magazine

## HERITAGE-114P VIRTUOSO™

### 114mm (4.5") f/4.4 AUTO-TRACKING PARABOLIC NEWTONIAN REFLECTOR

The Heritage-114P with its superb parabolic primary mirror provides excellent all-round performance for the observation of the Moon, Bright Planets and Deep-Sky objects. Its table top design offers excellent convenience and portability.

- Magnifications (with eyepieces supplied): x20 & x50
- Highest Practical Power (Potential): x228
- Diameter of Primary Mirror: 114mm
- Parabolic Primary Mirror
- Telescope Focal Length: 500mm (f/4.38)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Rack and Pinion Focuser (1.25")
- Red Dot Finder
- Virtuoso™ Computerised Multi-Function Mount
- Overall Weight Approx 5.3kg (mount 3.7kg), Dimensions 29x29x53cm



Heritage-114P Virtuoso™  
Prod.Code 10240

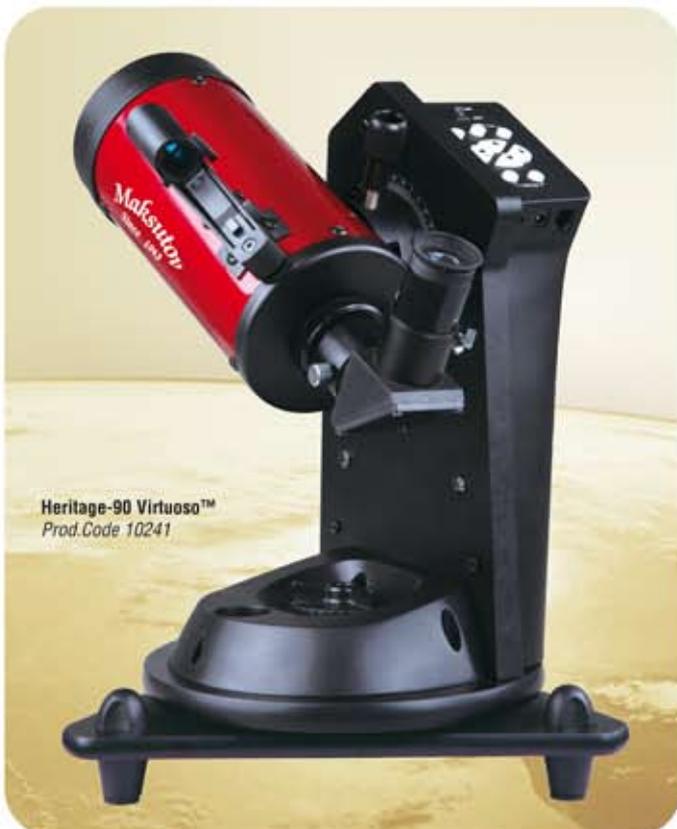
"This plucky little machine has a wonderful can-do attitude, being both optically and mechanically very sound. It is easy to set up and control and can even be enhanced to fully GO-TO with the optional Synscan AZ handset (and cable)"  
**Astronomy Now Magazine**

## HERITAGE-90 VIRTUOSO™

### 90mm (3.5") f/13.8 AUTO-TRACKING MAKSTOV-CASSEGRAIN

The Heritage-90 packs a powerful punch and is ideal for observing the Moon, Bright Planets and Double-Stars, and also can be used for high power daytime terrestrial viewing. Its table top design offers excellent convenience and portability.

- Magnifications (with eyepieces supplied): x50 & x125
- Highest Practical Power (Potential): x180
- Diameter of Primary Mirror: 90mm
- Telescope Focal Length: 1250mm (f/13.88)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- 90° Star Diagonal 1.25"
- Red Dot Finder
- Virtuoso™ Computerised Multi-Function Mount
- Overall Weight Approx 5.1kg (mount 3.7kg), Dimensions 29x29x45cm



Heritage-90 Virtuoso™  
Prod.Code 10241

## VIRTUOSO™ MOUNT FEATURES

The Virtuoso™ mount provides a stable platform and will track night sky objects automatically once located. The telescope can be slewed automatically in both axes, at five different speeds, via the mount's electronic keypad.

**Freedom-Find™ Technology:** A great feature of the Virtuoso™ is the patented dual-encoder technology which also allows the telescope to be moved manually in either axis without losing its alignment or positional information, giving the user enormous convenience and flexibility during observing sessions. As well as its superb astronomical functionality, the Virtuoso™ mount has a lot of other clever features for terrestrial photography (camera not included).

**Camera Cruising:** Take photographs automatically with your DSLR at up to 6 preset positions. The mount will stop at each predetermined position and automatically trigger the camera's shutter release. (Canon-EOS C1 electronic shutter release cable supplied but other Sky-Watcher cables are readily available from us for most popular DSLR cameras).

**Video Cruising/Time Lapse Photography:** The mount can automatically move your video camera through up to 6 preset positions without any pause. Up to 5 speeds can be selected in this mode (see below).

**Panoramic/Matrix Photography:** The mount can control a DSLR camera to take long distance panoramas up to 360°.

- DC Servo Motors, Driving Resolution 2.42 arc sec
- Payload Capacity 4kg
- Astronomical Tracking Speed: Sidereal Rate
- Slewing Speeds: 8x, 16x, 64x, 400x, >2000x Max
- Speeds in Time Lapse Mode:
  - 1xRotation/24hrs/6hrs/3hrs, 2.5°/sec, 1.2°/sec
- Supplied with L-Bracket and Canon-D Electronic Shutter Release Cable
- Telescope/Mount attachable to most Prosumer tripods via 3/8" thread
- Power Requirement: 12v DC 1 Amp Power Supply (Tip Positive).
- Sky-Watcher Power Tank Recommended or AA Batteries (not supplied)



Camera not included

## Sky-Watcher Electronic Shutter Release Cables

See page 67 for full list of Electronic Shutter Release Cables for the Virtuoso™ Mount.

## SYNSCAN™ AZ GO-TO COMPUTERISED TELESCOPES

The exciting Sky-Watcher SynScan™ Alt-Azimuth Go-To Mount is a Precision Engineered Instrument that will allow you to Easily Find and enjoy viewing Night Sky Treasures, such as Planets, Nebulae, Star Clusters, Galaxies and much more. The SynScan™ AZ hand control allows you point your telescope at a specific object, or even Tour the Night Sky at the touch of a button!!

The User-Friendly menu system allows automatic slewing to over 42,900+ objects. Even an inexperienced astronomer can master its variety of features in a few observing sessions. Combined with telescope OTA's of proven High Quality, these Superb Packages are all you need to Explore the Universe to your Heart's Content!!

*"Even without being particularly careful about initial set-up, the mount repeatedly performed well in all Go-To tests... The SynScan AZ swiftly and reliably found every requested random object over the entire visible hemisphere, with a pointing error never exceeding 0.3 degrees.... Quieter in operation than the competing Celestron SLT mount and equally capable of external computer control... The new SynScan AZ incorporates all the key features, upgradeable feature set and ease of use as Sky-Watcher's more expensive Go-To mounts in a sturdy, single-arm fork package, weighing less than 4.5kg (including tripod) and with an impressive targeting accuracy.... Highly recommended"*

**Astronomy Now Magazine**

**Astronomy  
HOT  
Product**

## SKYHAWK-1145P SYNSCAN™ AZ GO-TO

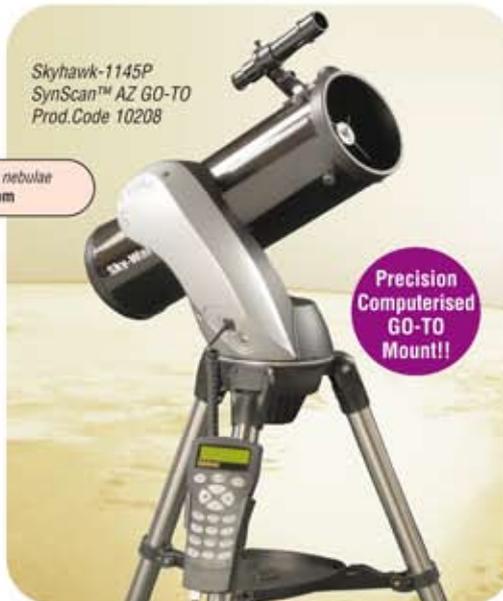
### 114mm (4.5") f/4.4 COMPUTERISED PARABOLIC NEWTONIAN REFLECTOR

This telescope with its superb Parabolic optics provides excellent all-round performance for both the observation of the Moon & Planets and Deep-Sky objects.

- Magnifications (with optics supplied): x20, x40, x50, x100
- Highest Practical Power (Potential): x228
- Diameter of Primary Mirror: 114mm
- Telescope Focal Length: 500mm (f/4.38) • Parabolic Primary Mirror
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- 0.5mm Ultra-Thin Secondary Mirror Supports • 6x24 Finderscope • 1.25" Rack & Pinion Focuser
- SynScan™ AZ Go-To Computerised Alt-Azimuth HD Go-To Mount
- Power Requirement: 12v DC Power Supply (Tip Positive) or AA Batteries (not supplied)
- Stainless Steel Tripod with Accessory Tray

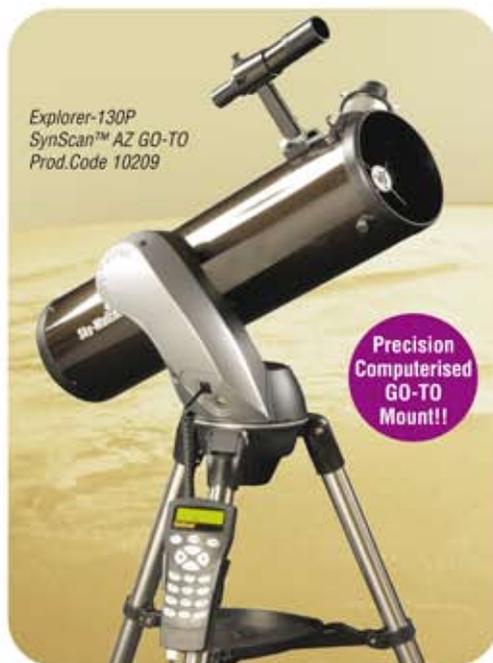
*"The optics were so good... captures star clusters and brighter nebulae beautifully under dark skies"* **Ade Ashford, www.scopetest.com**

Skyhawk-1145P  
SynScan™ AZ GO-TO  
Prod.Code 10208



**Precision  
Computerised  
GO-TO  
Mount!!**

*"Its sharp optics and relatively small central obstruction ensure that it delivers bright, diffraction-limited images... can view a true field in excess of 2"... will give you memorable views of the Moon and bright planets... In short, it's a great all-rounder in its class"*  
**Ade Ashford, www.scopetest.com**



Explorer-130P  
SynScan™ AZ GO-TO  
Prod.Code 10209

**Precision  
Computerised  
GO-TO  
Mount!!**

## EXPLORER-130P SYNSCAN™ AZ GO-TO

### 130mm (5.1") f/5 COMPUTERISED PARABOLIC NEWTONIAN REFLECTOR

Fantastic performance from this highly capable all-rounder. Its precision Parabolic primary mirror captures 30% more precious starlight than a 114mm reflector for bright, sharp, contrasty views of a wide range of night sky objects.

- Magnifications (with optics supplied): x26, x52, x65, x130 • Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm • Telescope Focal Length: 650mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports
- 6x30 Finderscope • SynScan™ AZ Go-To Computerised Alt-Azimuth HD Go-To Mount
- 2" Rack & Pinion Focuser with 1.25" adaptor
- Power Requirement: 12v DC 1Amp Power Supply (Tip Positive) or AA Batteries (not supplied)
- Stainless Steel Tripod with Accessory Tray
- 30% more Light Gathering than 114mm

*"I was most impressed by the views revealed by the scope during tests... Despite a phase of nearly 96 percent, the waxing gibbous Moon revealed a seemingly inexhaustible amount of fine detail"*  
**Astronomy Now Magazine**

## STARTRAVEL-102 SYNSCAN™ AZ GO-TO

### 102mm (4") f/4.9 COMPUTERISED REFRACTOR

An ideal instrument for the wide-field observation of Deep-Sky objects, such as Nebulae, Star Fields & Clusters and Galaxies. A useful telescope for astrophotography and also for daytime terrestrial use.

*"We quickly set up and aligned the scope with the help of the instructions... The SynScan Go-To computer efficiently located all the objects we set it to, putting them close to the centre of the wide-field view. The quality of the view was good and the light-grip of the 4-inch main objective lens gave us good views of all types of object, from galaxies such as M31 to nebulae such as the Dumbell Nebula and star clusters like the Pleiades. Overall, this is a nice package that does the job."*  
**BBC Sky At Night Magazine**

- Magnifications (with optics supplied): x20, x40, x50, x100 • Highest Practical Power (Potential): x204
- Objective Lens Diameter: 102mm • Telescope Focal Length: 500mm (f/4.9)
- Eyepieces Supplied (1.25"): 10mm & 20mm • x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- 6x30 Finderscope • Fully Multi-Coated Objective Lens • 45° Erect Image Diagonal (1.25")
- SynScan™ AZ Go-To Computerised Alt-Azimuth HD Go-To Mount
- Power Requirement: 12v DC Power Supply (Tip Positive) or AA Batteries (not supplied)
- Stainless Steel Tripod with Accessory Tray

Startravel-102  
SynScan™ AZ GO-TO  
Prod.Code 10207



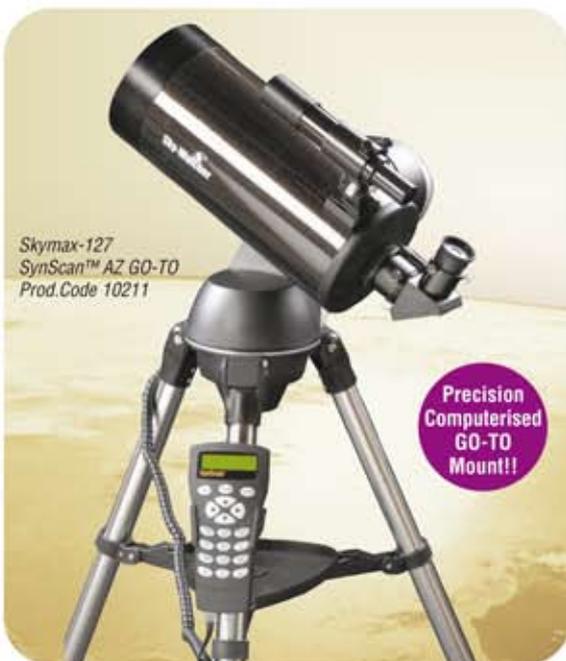
**Precision  
Computerised  
GO-TO  
Mount!!**

## SKYMAX-102 SYNSCAN™ AZ GO-TO

### 102mm (4") f/12.7 COMPUTERISED MAKSTOV CASSEGRAIN

This compact telescope, with its high-resolution multi-coated optical system, excels at medium-to-high-powers for the examination of the surface detail on the Moon, planets and also for double-star observations. Also useful for terrestrial use.

- Magnifications (with optics supplied): x52, x104, x130, x260 • Highest Practical Power (Potential): x204
- Diameter of Primary Mirror: 102mm • Telescope Focal Length: 1300mm (f/12.7)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- 6x30 Finderscope • 90° Star Diagonal (1.25") • SynScan™ AZ Go-To Computerised Alt-Azimuth HD Go-To Mount
- Power Requirement: 12v DC 1Amp Power Supply (Tip Positive) or AA Batteries (not supplied)
- Stainless Steel Tripod with Accessory Tray



Skymax-102  
SynScan™ AZ GO-TO  
Prod.Code 10211

Precision  
Computerised  
GO-TO  
Mount!!

"Delivers high-contrast, pin-sharp views one has become accustomed to with Sky-Watcher Maksutovs."  
Astronomy Now Magazine



Precision  
Computerised  
GO-TO  
Mount!!

Skymax-102  
SynScan™ AZ GO-TO  
Prod.Code 10210

## SKYMAX-127 SYNSCAN™ AZ GO-TO

### 127mm (5") f/11.8 COMPUTERISED MAKSTOV-CASSEGRAIN

A larger version of the Skymax-102 providing a massive 55% more light-gathering power, and packing an even more powerful punch than its smaller cousin for medium-to-high-power work.

"This is one of the jewels in the Sky-Watcher's crown. Its large enough to produce richly detailed, high-contrast Lunar and Planetary images... The Skymax-127 packs a performance punch with a relatively short cool-down time... For daytime terrestrial use, the instrument is quite capable of focusing down to 8 metres" Ade Ashford, www.scopelest.com

- Magnifications (with optics supplied): x60, x120, x150, x300 • Highest Practical Power (Potential): x254
- Diameter of Primary Mirror: 127mm • Telescope Focal Length: 1500mm (f/11.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- 6x30 Finderscope • 90° Star Diagonal (1.25")
- SynScan™ AZ Go-To Computerised Alt-Azimuth HD Go-To Mount
- Power Requirement: 12v DC 1Amp Power Supply (Tip Positive) or AA Batteries (not supplied)
- Stainless Steel Tripod with Accessory Tray • 55% more Light gathering than 102mm

#### Main Features:

- SynScan™ Database: Total 42,900+ Objects, including Complete M, NGC, IC & SAO Catalogues
- Pointing Accuracy Enhancement (PAE) feature • Alignment Method: Two-star or Brightest star alignment
- Unknown Object Identification feature • Pointing Accuracy up to 10 arc min • Quiet Operation
- Tracking Mode: Dual Axis Tracking • Tracking Rates: Sidereal, Lunar, Solar
- Slewing Speeds: 1.0x, 2.0x, 16x, 32x, 64x, 128x, 400x, 500x, 600x, 800x
- Motor Type & Resolution: DC Servo Motors. Resolution 0.8923 arc sec or 1,452,425 steps/rev
- PC Compatible: can be used with popular Planetarium Software
- SynScan Handset Firmware upgradeable via the Internet
- Power Requirement: 12v DC Power Supply (Tip Positive) or AA Batteries (not supplied)

**Sky-Watcher Power Tanks** These extremely portable 12v rechargeable power supplies are highly recommended for use with all SynScan™, SynTrek™ and AutoTracking mounts. (Full spec. on page 45)



7Ah Power Tank  
Prod.Code: 20153



17Ah Power Tank  
Prod.Code: 20154

## STAR DISCOVERY 150P SYNSCAN™

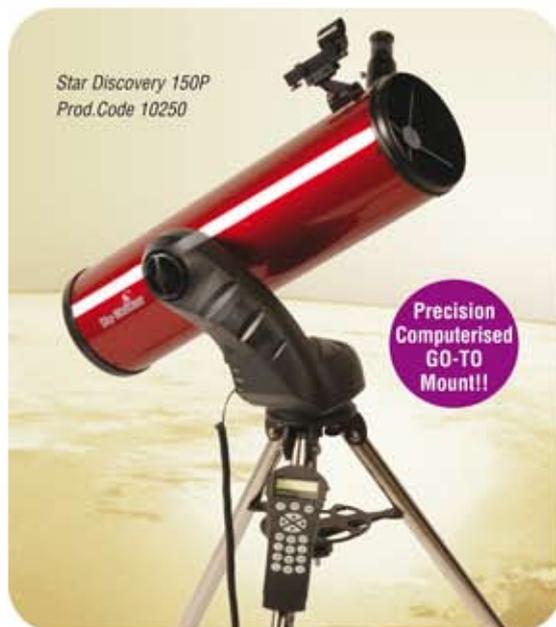
### 150mm (6") f/5 COMPUTERISED GO-TO PARABOLIC NEWTONIAN REFLECTOR

With a large 150mm of light gathering aperture combined with superb parabolic optics, the Star Discovery 150P computerised Go-To telescope is a highly capable all-rounder with excellent performance for the observation of the Moon, planets, nebulae, galaxies and star clusters.

The exciting new Sky-Watcher Star Discovery mount is an upgraded version of the AZ Go-To mount featuring Freedom Find™ dual encoder technology.

This allows the telescope, once aligned, to be moved manually or electronically in either axis without the mount losing its alignment or positional information.

- Magnifications (with eyepieces supplied): x30, x60, x75 & x150 • Highest Practical Power (Potential): x300
- Diameter of Primary Mirror: 150mm • Telescope Focal Length: 750mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens (1.25") with camera adaptor
- Parabolic Primary Mirror • Red Dot Finder • 1.25" Rack & Pinion Focuser
- Star Discovery AZ Go-To Alt-Azimuth Go-To Mount • Synscan™ Computerised Handset
- Power Requirement: 12v DC 1Amp Power Supply (Tip Positive) or 8 x AA Batteries (not supplied)
- Stainless Steel Tripod with Accessory Tray • 33% more Light Gathering than 130mm



Star Discovery 150P  
Prod.Code 10250

Precision  
Computerised  
GO-TO  
Mount!!

Infinity-76P  
Product Code  
10942



**NOT YOUR  
AVERAGE TOY  
TELESCOPE!!**

## INFINITY-76P 76mm (3") f/4 PARABOLIC NEWTONIAN REFLECTOR

The attractive Sky-Watcher INFINITY-76P telescope houses the Aspherical Technology usually only found in larger, more expensive telescopes. The primary mirror is altered during polishing to bring the light rays onto a common focal plane, resulting in sharp images full of detail. The INFINITY-76P collects 131% more starlight than the average 50mm toy telescope, bringing hundreds more objects into view. Its intuitive up-down, left-right manoevrability makes it a perfect user-friendly telescope for kids. Setting up the telescope is so easy that it is almost ready right out of the box, allowing your kids to easily explore the exciting universe to their hearts' content.

- Magnification: x30 • Diameter of Primary Mirror: 76mm • Telescope Focal Length: 300mm (f/4)
- Eyepiece Supplied: 30x Erecting\* (\*Provides upright image for terrestrial use)
- Parabolic Primary Mirror • Helical Focusing • Table-Top Cradle • Gift Box



Included in **The Independent** Ten Best Telescopes feature. Chosen by Robin Scagell Vice President of The Society for Popular Astronomy

## HERITAGE-76 76mm (3") f/4 MINI DOBSONIAN

The Sky-Watcher Heritage-76 was specially designed to celebrate the International Year of Astronomy (IYA) and the 400th Anniversary of Galileo's first telescope. This is not only a highly functional precision optical instrument but also a beautiful collector's piece, desk or shelf ornament, and ideal gift.

- Magnifications (with eyepieces supplied): x12 & x30 • Diameter of Primary Mirror: 76mm
- Telescope Focal Length: 300mm (f/4) • Eyepieces Supplied (1.25"): 10mm & 25mm Super-MA
- Single-arm Secondary Mirror Support • 5x24 Finderscope • Rack and Pinion Focuser
- Wooden Alt-Azimuth Mount • Overall maximum height: 40cm • Weight Approx 1.75kg



Heritage-76  
Product Code 10212

### NEED MORE MAGNIFICATION? – TRY A BARLOW LENS

A x2 Barlow lens is a very useful accessory. It effectively doubles the focal length, and hence magnifying power of the objective lens. Therefore, when used in conjunction with an eyepiece, it has the effect of increasing each standard eyepiece magnification by a factor of 2, giving twice the range of standard magnifications than available before. (e.g. if your telescope offers magnifications of x20 and x50 without a Barlow lens, with a Barlow lens magnifications of x40 and x100 are also now possible). Using a Barlow lens to increase magnification also has other benefits: Improved eye relief and reduced spherical aberration in the eyepiece.

- a) x2 Economy 1.25" Barlow Lens (Prod. Code 20475)
- b) x2 Deluxe Achromatic 1.25" Barlow Lens (Prod. Code 20364)



Astrolux  
Product Code 10708

## ASTROLUX 76mm (3") f/9.2 NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x28, x56, x70, x140
- Highest Practical Power (Potential): x152
- Diameter of Primary Mirror: 76mm
- Telescope Focal Length: 700mm (f/9.2)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens
- 6x24 Finderscope
- AZ1 Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray



Skyhawk-114  
Product Code 10921



Heritage-100P  
Product Code  
10245

## HERITAGE-100P 100mm (4") f/4 PARABOLIC DOBSONIAN

- Magnifications (with optics supplied): x16, x32, x40, x80
- Diameter of Primary Mirror: 100mm
- Telescope Focal Length: 400mm (f/4)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow lens
- Parabolic Primary Mirror
- Red Dot Finder
- Rack and Pinion Focuser
- Wooden Alt-Azimuth Mount
- Weight Approx 2.8kg

## SKYHAWK-114 114mm (4.5") f/8.7 CATADIOPTRIC NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x40, x80, x100, x200 • Highest Practical Power (Potential): x228
- Diameter of Primary Mirror: 114mm • Telescope Focal Length: 1000mm (f/8.77) • Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens • Red Dot Finder • EQ1 Equatorial Mount • Aluminium Tripod with Accessory Tray
- 125% more Light Gathering than 76mm

## SKYHAWK-1145P 114mm (4.5") f/4.4 PARABOLIC NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x20, x40, x50, x100
- Highest Practical Power (Potential): x228
- Diameter of Primary Mirror: 114mm
- Telescope Focal Length: 500mm (f/4.4)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens
- Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports
- Red Dot Finder • EQ1 Equatorial Mount
- Aluminium Tripod with Accessory Tray
- 125% more Light Gathering than 76mm

*"The optics were so good... Captures star clusters and brighter nebulae beautifully... The planet (Saturn) was jaw-droppingly beautiful, with a host of fine detail visible... The review instrument certainly delivered in every important respect."*

**BBC Sky at Night Magazine**

### BEST BUDGET BUY

#### THE INDEPENDENT

Skyhawk 1145PM  
*(The Ten Best Telescopes feature. Chosen by Robin Scagell, Vice President of The Society for Popular Astronomy)*

*"This telescope made observing the night sky enjoyable....great views coupled with ease of use."*

**BBC Sky at Night Magazine**



Skyhawk-1145P  
Prod.Code 10709

## EXPLORER-130 (Without R.A. Motor Drive)

Prod.Code 10922

## EXPLORER-130M (With R.A. Motor Drive)

Prod.Code 10713



Explorer-130



Explorer-130M  
Model illustrated

## EXPLORER-130 & EXPLORER-130M 130mm (5.1") f/6.9 NEWTONIAN REFLECTORS

- Magnifications (with optics supplied): x36, x72, x90, x180
- Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm
- Telescope Focal Length: 900mm (f/6.92)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens • Red Dot Finder • EQ2 Equatorial Mount
- R.A. Motor Drive (D.C.) with Multi-Speed Handset (Explorer-130M model only)
- Aluminium Tripod with Accessory Tray • 30% more Light Gathering than 114mm

## HERITAGE-130P FLEXTUBE™ 130mm (5.1") f/5 PARABOLIC DOBSONIAN

The Heritage-130P was specially designed to celebrate the International Year of Astronomy and the 400th Anniversary of Galileo's first telescope. The telescope tube is adorned with the names of many famous figures that have made significant contributions to the advancement of astronomy over this 400 year period. Housing the same superb Parabolic Primary Mirror as our highly-renowned Explorer-130P, this telescope is an excellent and capable all-rounder which will provide wonderful views of both the Moon & Planets as well as Deep-Sky Objects.

- Magnifications (with eyepieces supplied): x26 & x65
- Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm
- Telescope Focal Length: 650mm (f/5)
- Parabolic Primary Mirror
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Single-arm Secondary Mirror Support
- Wooden Alt-Azimuth Mount
- Red Dot Finder
- Collapsible/ Extendable Tube Assembly
- Overall maximum height: 46cm (collapsed), 69.5cm (ext)
- Weight Approx 6.2kg
- Built-in Carrying Handle
- 30% more Light Gathering than 114mm



Heritage-130P  
Product Code  
10213



Explorer-130P  
Product Code  
10712



## EXPLORER-130P 130mm (5.1") f/5 PARABOLIC NEWTONIAN REFLECTOR

- Magnifications (with eyepieces supplied): x26 & x65
- Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm
- Telescope Focal Length: 650mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports
- Red Dot Finder • EQ2 Equatorial Mount
- Aluminium Tripod with Accessory Tray
- 30% more Light Gathering than 114mm

*"I was most impressed by the views revealed by the 'scope during tests... Despite a phase of nearly 96 percent, the waxing gibbous Moon revealed a seemingly inexhaustible amount of fine detail... Highly recommended!"*

**Astronomy Now Magazine**

### SKY-WATCHER DELUXE MIRROR COATINGS

Most reflectors today usually have a thin coat of aluminium as the mirror surface and then an overcoat of silicon monoxide or silicon dioxide to protect it. Silicon dioxide produces a much more durable coat than silicon monoxide but requires specialised equipment to apply it and is therefore more expensive. Protection is needed, because in most reflectors, the mirror is open to the elements and deterioration of the reflective layer reduces the resolution of the telescope. ALL Sky-Watcher reflectors are Multi-Coated with Silicon Dioxide as standard for Optimum Durability and Long Term Performance.

## EXPLORER BLACK DIAMOND PARABOLIC REFLECTORS

"All Sky-Watcher's Explorer f/4, f/5 and f/8 BLACK DIAMOND Newtonians feature precision parabolic mirrors that provide excellent all-round performance on the night sky. The crisp, high-resolution views and faithful colour rendering delivered by compact tube assemblies, well matched to their mounts, means that both planetary and deep-sky observers will relish them." **Ade Ashford, www.scopetest.com**



"Good for advanced observing".... "Saturn was a stunning sight" **BBC Sky At Night Magazine**

Explorer-150P (EQ3-2)  
Product Code  
10912/20448

### EXPLORER-150P (EQ3-2) 150mm (6") f/5 PARABOLIC NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x30, x60, x75, x150 • Highest Practical Power (Potential): x300
- Diameter of Primary Mirror: 150mm • Telescope Focal Length: 750mm (f/5) • Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor) • Parabolic Primary Mirror • Built-in Polar Alignment Scope Holder
- 0.5mm Ultra-Thin Secondary Mirror Supports • 6x30 Finderscope • Direct SLR Camera Connection
- EQ3-2 Deluxe Equatorial Mount • Aluminium Tripod with Accessory Tray • 33% more Light Gathering than 130mm

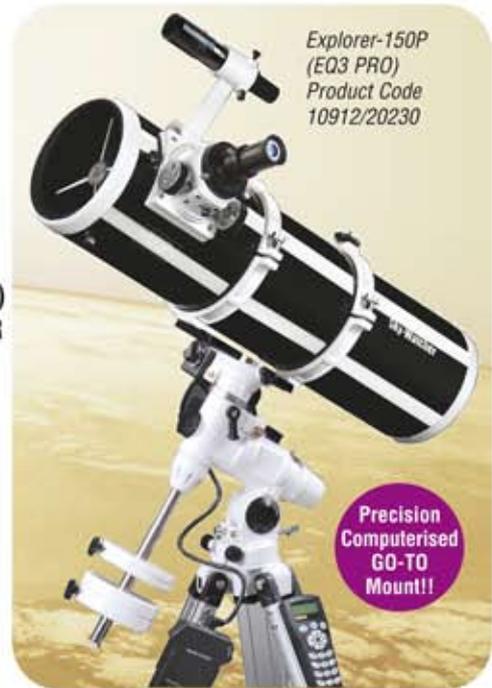
### EXPLORER-150P (OTA)

#### 150mm (6") f/5 PARABOLIC NEWTONIAN REFLECTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 6x30 Finderscope, x2 Barlow lens, Tube Rings and Dovetail Mounting Bar. *Product Code 10912*



MOON TAKEN THROUGH EXPLORER-150P  
IMAGE COURTESY OF IAN PETERS, ENGLAND



Explorer-150P (EQ3 PRO)  
Product Code  
10912/20230

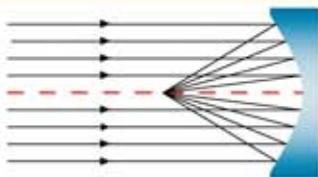
Precision  
Computerised  
GO-TO  
Mount!!

### EXPLORER-150P (EQ3 PRO) 150mm (6") f/5 PARABOLIC GO-TO NEWTONIAN REFLECTOR

- Magnification (with optics supplied): x30, x60, x75, x150
- Highest Practical Power (Potential): x300
- Diameter of Primary Mirror: 150mm
- Telescope Focal Length: 750mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with camera adaptor)
- Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports
- 6x30 Finderscope
- Direct SLR Camera Connection
- EQ3 PRO Go-To Equatorial Mount with Aluminium Tripod
- 42,900+ Object SynScan Computer Database
- Built-in Dual-Axis Stepper Motors
- Built-in Polar Alignment Scope
- 33% more Light Gathering than 130mm

#### PARABOLIC PRIMARY MIRRORS

Sky-Watcher EXPLORER-P Newtonian Reflectors all feature High Quality Parabolic Primary Mirrors to eliminate spherical aberrations. The mirrors are 'parabolised' to bring all the light rays to the same focal point to produce sharp, contrasty images, which are full of detail.



#### ADVANCED FEATURES

All Sky-Watcher EXPLORER-P Newtonian Reflectors feature 0.5mm Ultra-Thin Secondary Mirror Supports to reduce diffraction spikes & light loss, and high quality Paraboloidal primary mirrors to eliminate spherical aberration.

### EXPLORER-150PL (EQ3-2)

#### 150mm (6") f/8 PARABOLIC NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x48, x96, x120, x240
- Highest Practical Power (Potential): x300
- Diameter of Primary Mirror: 150mm
- Telescope Focal Length: 1200mm (f/8)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- 0.5mm Ultra-Thin Secondary Mirror Supports
- Parabolic Primary Mirror
- 6x30 Finderscope
- Direct SLR Camera Connection
- EQ3-2 Deluxe Equatorial Mount
- Built-in Polar Alignment Scope Holder
- Aluminium Tripod with Accessory Tray
- 33% more Light Gathering than 130mm

### EXPLORER-150PL (OTA)

#### 150mm (6") f/8 PARABOLIC NEWTONIAN REFLECTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 6x30 Finderscope, x2 Barlow lens, Tube Rings and Dovetail Mounting Bar. *Product Code 10949*



Explorer-150PL (EQ3-2)  
Product Code  
10949/20448

"Verdict: a reborn classic that I can't recommend highly enough for the price.." **Ade Ashford, www.scopetest.com**

## EXPLORER-200P (OTA)

### 200mm (8") f/5 PARABOLIC NEWTONIAN REFLECTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 9x50 Finderscope, x2 Deluxe Barlow lens, Tube Rings and Dovetail Mounting Bar.

Product Code 10923

## EXPLORER-200P (EQ5)

### 200mm (8") f/5 PARABOLIC NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x40, x80, x100, x200
- Highest Practical Power (Potential): x400
- Diameter of Primary Mirror: 200mm
- Telescope Focal Length: 1000mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- Dual-Fit 1.25"/2" Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports
- 9x50 Finderscope • Direct SLR Camera Connection
- EQ5 Deluxe Heavy-Duty Equatorial Mount
- Built-in Polar Alignment Scope Holder
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- 77% more Light Gathering than 150mm

*"The Explorer-200P passed all our tests with flying colours and was a delight to use both optically and mechanically... The overall stability of the system impressed us... The mount was the most stable in the test with no flexing at all... The quality of its views just pushed it ahead of the Europa, giving us a very enjoyable look at all of our test objects."*

BBC Sky At Night Magazine



Explorer-200P (EQ5)  
Product Code  
10923/20464

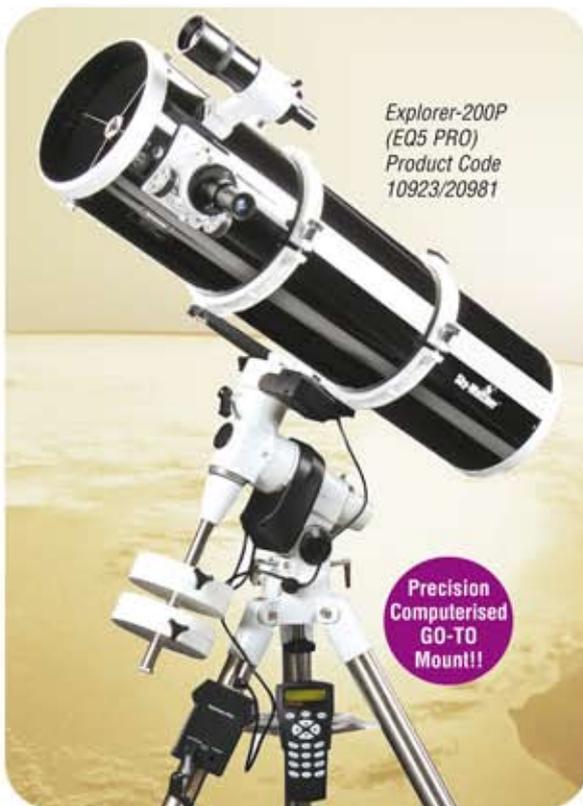


JUPITER TAKEN THROUGH EXPLORER-200P. IMAGE COURTESY OF BILL DRAPER, ENGLAND

## EXPLORER-200P (EQ5 PRO)

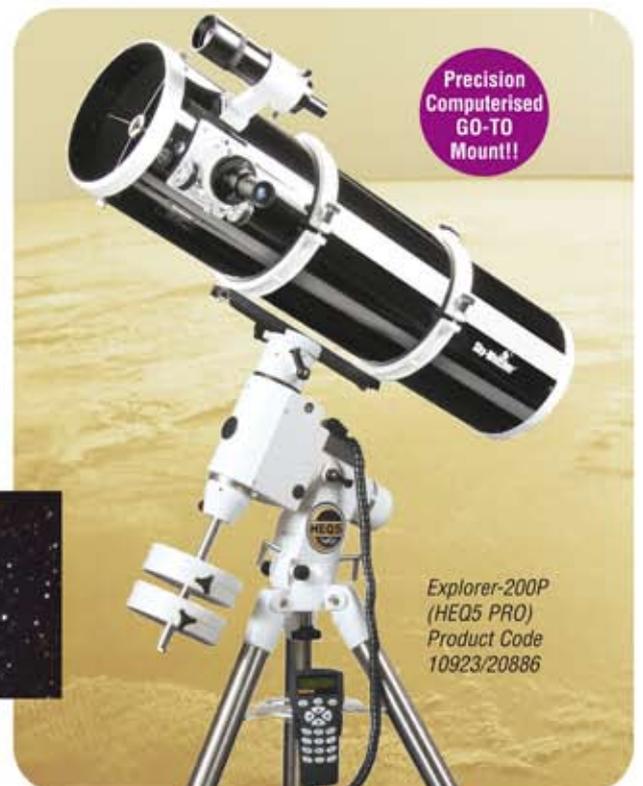
### 200mm (8") f/5 PARABOLIC GO-TO NEWTONIAN REFLECTOR

- Magnification (with optics supplied): x40, x80, x100, x200 • Highest Practical Power (Potential): x400
- Diameter of Primary Mirror: 200mm • Telescope Focal Length: 1000mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with camera adaptor)
- Dual-Fit 1.25"/2" Focuser • Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports
- 9x50 Finderscope • Direct SLR Camera Connection
- EQ5 PRO Go-To Equatorial Mount with 1.75" Stainless Steel Tripod • Built-in Polar Alignment Scope
- 77% more Light Gathering than 150mm



Explorer-200P (EQ5 PRO)  
Product Code  
10923/20981

Precision  
Computerised  
GO-TO  
Mount!!



Precision  
Computerised  
GO-TO  
Mount!!

Explorer-200P (HEQ5 PRO)  
Product Code  
10923/20886

## EXPLORER-200P (HEQ5 PRO)

### 200mm (8") f/5 PARABOLIC GO-TO NEWTONIAN REFLECTOR

- Magnification (with optics supplied): x40, x80, x100, x200
- Highest Practical Power (Potential): x400
- Diameter of Primary Mirror: 200mm
- Telescope Focal Length: 1000mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with camera adaptor)
- Dual-Fit 1.25"/2" Focuser
- Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports
- 9x50 Finderscope
- Direct SLR Camera Connection
- HEQ5 PRO Go-To Equatorial Mount with 1.75" Stainless Steel Tripod
- 42,900+ Object SynScan Computer Database
- Built-in Polar Alignment Scope
- 77% more Light Gathering than 150mm



DUMBBELL NEBULA TAKEN THROUGH EXPLORER-200P. IMAGE COURTESY OF BILL DRAPER, ENGLAND

## EXPLORER-PDS SERIES PARABOLIC DUAL-SPEED IMAGING NEWTONIANS

The new Sky-Watcher EXPLORER-PDS Advanced range of Parabolic Newtonian Reflectors incorporate the same superb mirror-sets\* as the Explorer-P Black Diamond Series, but with two significant advantages. A Dual-Speed 10:1 ratio focuser is now included for excellent focusing precision. Also the tube length has been slightly shortened to optimise their performance for prime-focus photography. Even better performance for astro-photography and visual use can be achieved when used in combination with Sky-Watcher's Newtonian coma corrector (*Prod.Code 20233*)



\*Note: the Explorer-200PDS has a larger 58mm secondary mirror, for enhanced field illumination, compared to the Explorer-200P which has a 52mm secondary.

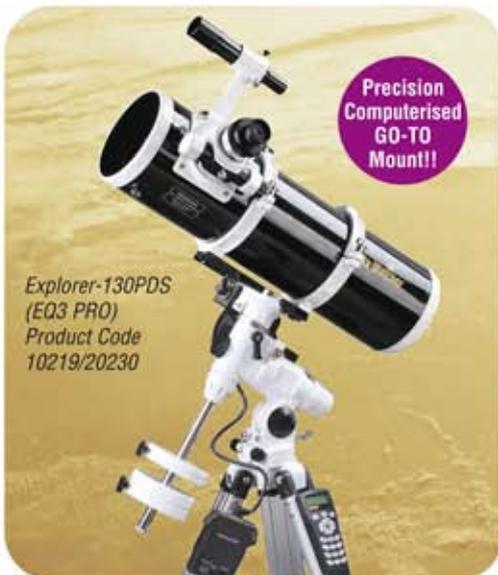
### EXPLORER-130PDS OTA

#### 130mm (5.1") f/5 PARABOLIC DUAL-SPEED IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x23 • Highest Practical Power (Potential) x260 • 6x30 Finderscope
- Diameter of Primary Mirror 130mm • Telescope Focal Length 650mm (f/5) • Eyepiece Supplied 28mm (2"/50.8mm)
- Parabolic Primary Mirror • 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports • Complete with tube rings and dovetail bar
- 30% more Light-Gathering than 114mm



Explorer-130PDS OTA  
Product Code 10219



Explorer-130PDS  
(EQ3 PRO)  
Product Code  
10219/20230

Precision  
Computerised  
GO-TO  
Mount!!

### EXPLORER-130PDS (EQ3 PRO)

#### 130mm (5.1") f/5 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x23 • Highest Practical Power (Potential) x260
- Diameter of Primary Mirror 130mm • Telescope Focal Length 650mm (f/5) • Eyepiece Supplied 28mm (2"/50.8mm)
- 6x30 Finderscope • Parabolic Primary Mirror • 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports • EQ3 PRO Go-To Equatorial Mount with Aluminium Tripod
- 42,900+ Object SynScan™ Computer Database • Built-in Polar Alignment Scope
- 30% more Light-Gathering than 114mm

### EXPLORER-150PDS (EQ3 PRO)

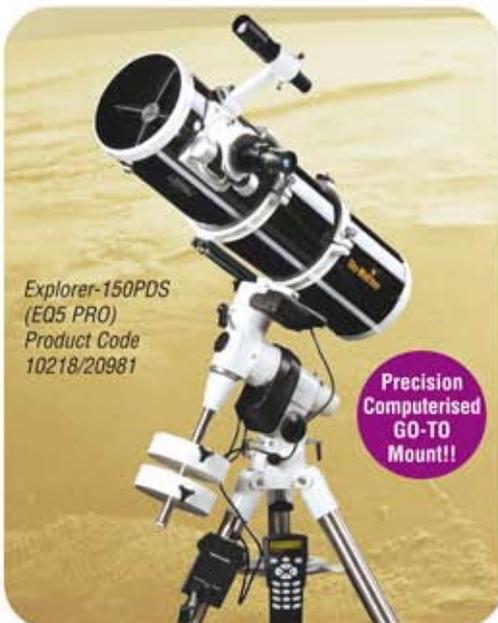
#### 150mm (6") f/5 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x30
- Highest Practical Power (Potential) x300
- Diameter of Primary Mirror 150mm
- Telescope Focal Length 750mm (f/5)
- Eyepiece Supplied 25mm (1.25"/31.7mm)
- 6x30 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports
- EQ3 PRO Go-To Equatorial Mount with Aluminium Tripod
- 42,900+ Object SynScan™ Computer Database
- Built-in Polar Alignment Scope
- 33% more Light-Gathering than 130mm



Explorer-150PDS  
(EQ3 PRO)  
Product Code  
10218/20230

Precision  
Computerised  
GO-TO  
Mount!!



Explorer-150PDS  
(EQ5 PRO)  
Product Code  
10218/20981

Precision  
Computerised  
GO-TO  
Mount!!

### EXPLORER-150PDS (EQ5 PRO)

#### 150mm (6") f/5 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x30
- Highest Practical Power (Potential) x300
- Diameter of Primary Mirror 150mm
- Telescope Focal Length 750mm (f/5)
- Eyepiece Supplied 25mm (1.25"/31.7mm)
- 6x30 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports
- EQ5 PRO Go-To Equatorial Mount with 1.75" Stainless Steel Tripod
- 42,900+ Object SynScan™ Computer Database
- Built-in Polar Alignment Scope
- 33% more Light-Gathering than 130mm



Explorer-150PDS OTA  
Product Code 10218

### EXPLORER-150PDS OTA

#### 150mm (6") f/5 PARABOLIC DUAL-SPEED NEWTONIAN REFLECTOR

- Magnification (with eyepiece supplied) x30 • Highest Practical Power (Potential) x300
- Diameter of Primary Mirror 150mm • Telescope Focal Length 750mm (f/5)
- Eyepiece Supplied 25mm (1.25"/31.7mm) • 6x30 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- 33% more Light-Gathering than 130mm

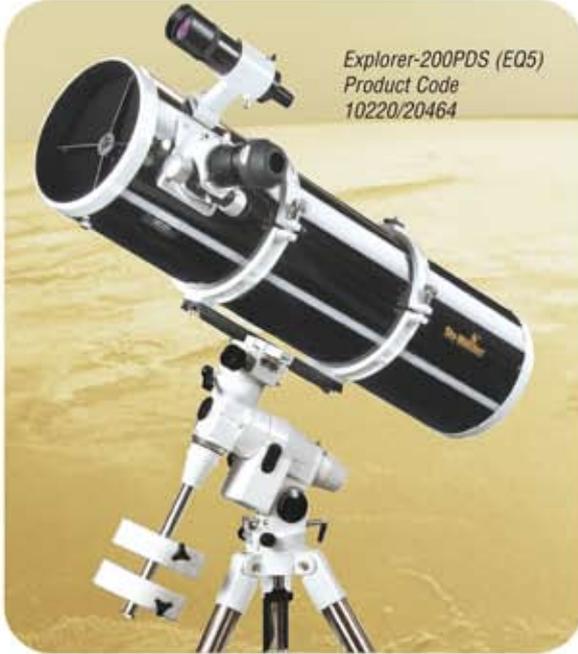
## EXPLORER-200PDS OTA

### 200mm (8") f/5 PARABOLIC DUAL-SPEED IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x36 • Highest Practical Power (Potential) x400
- Diameter of Primary Mirror 200mm • Telescope Focal Length 1000mm (f/5)
- Eyepiece Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports
- 77% more Light-Gathering than 150mm



Explorer-200PDS OTA  
Product Code 10220



Explorer-200PDS (EQ5)  
Product Code  
10220/20464

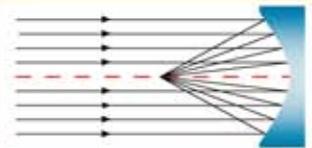
## EXPLORER-200PDS (EQ5)

### 200mm (8") f/5 PARABOLIC DUAL-SPEED IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x36
- Highest Practical Power (Potential) x400
- Diameter of Primary Mirror 200mm
- Telescope Focal Length 1000mm (f/5)
- Eyepiece Supplied 28mm LET (2"/50.8mm)
- 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports
- EQ5 Equatorial Mount with 1.75" Stainless Steel Tripod
- 77% more Light-Gathering than 150mm

### PARABOLIC PRIMARY MIRRORS

All Sky-Watcher EXPLORER-PDS Newtonian Reflectors feature High Quality Parabolic Primary Mirrors to eliminate spherical aberrations. The mirrors are "parabolised" to bring all the light rays to the same focal point to produce sharp, contrasty images, which are full of detail.



Explorer-200PDS (EQ5 PRO)  
Product Code  
10220/20981

## EXPLORER-200PDS (EQ5 PRO)

### 200mm (8") f/5 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

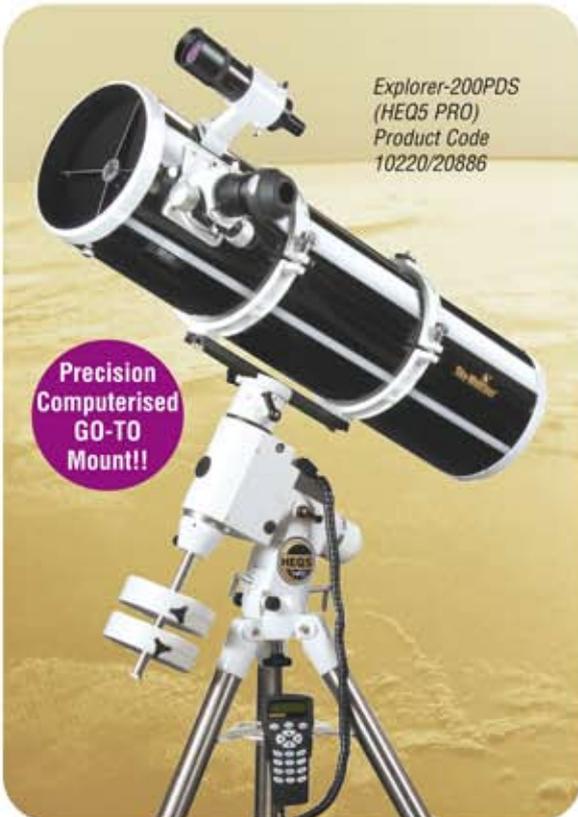
- Magnification (with eyepiece supplied) x36 • Highest Practical Power (Potential) x400
- Diameter of Primary Mirror 200mm • Telescope Focal Length 1000mm (f/5) • Eyepiece Supplied 28mm LET (2"/50.8mm)
- 9x50 Finderscope • Parabolic Primary Mirror • 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports • EQ5 PRO Go-To Equatorial Mount with 1.75" Stainless Steel Tripod
- 42,900+ Object SynScan™ Computer Database • Built-in Polar Alignment Scope • 77% more Light-Gathering than 150mm

### ADVANCED FEATURES

Sky-Watcher EXPLORER-PDS Newtonian Reflectors feature 0.5mm Ultra-Thin Secondary Mirror Supports to reduce diffraction spikes & light loss, and high quality Paraboloidal primary mirrors to eliminate spherical aberration.



Precision  
Computerised  
GO-TO  
Mount!!



Explorer-200PDS (EQ5 PRO)  
Product Code  
10220/20886

Precision  
Computerised  
GO-TO  
Mount!!

## EXPLORER-200PDS (HEQ5 PRO)

### 200mm (8") f/5 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x36 • Highest Practical Power (Potential) x400
- Diameter of Primary Mirror 200mm • Telescope Focal Length 1000mm (f/5)
- Eyepiece Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- HEQ5 PRO Go-To Equatorial Mount with 1.75" Stainless Steel Tripod • Polar Alignment Scope
- 42,900+ Object SynScan™ Computer Database • 77% more Light-Gathering than 150mm

## EXPLORER-250PDS OTA

### 254mm (10") f/4.7 PARABOLIC DUAL-SPEED IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x43 • Highest Practical Power (Potential) x508
- Diameter of Primary Mirror 254mm • Telescope Focal Length 1200mm (f/4.7)
- Eyepiece Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- 56% more Light-Gathering than 200mm



Explorer-250PDS OTA  
Product Code 10221

## EXPLORER-250PDS (EQ6 PRO)

### 254mm (10") f/4.7 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x43 • Highest Practical Power (Potential) x508
- Diameter of Primary Mirror 254mm • Telescope Focal Length 1200mm (f/4.7)
- Eyepiece Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- EQ6 PRO Go-To Equatorial Mount with 2" Stainless Steel Tripod • Built-in Polar Alignment Scope
- 42,900+ Object SynScan™ Computer Database • 56% more Light-Gathering than 200mm



Explorer-300PDS OTA  
Product Code 10222

## EXPLORER-300PDS OTA

### 305mm (12") f/4.9 PARABOLIC DUAL-SPEED IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x53.5 • Highest Practical Power (Potential) x610
- Diameter of Primary Mirror 305mm • Telescope Focal Length 1500mm (f/4.9)
- Eyepiece Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- 44% more Light-Gathering than 250mm

## EXPLORER-300PDS (EQ6 PRO)

### 305mm (12") f/4.9 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnifications (with eyepieces supplied) x53.5 • Highest Practical Power (Potential) x610
- Diameter of Primary Mirror 305mm • Telescope Focal Length 1500mm (f/4.9)
- Eyepieces Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- EQ6 PRO Go-To Equatorial Mount with 2" Stainless Steel Tripod • Built-in Polar Alignment Scope
- 42,900+ Object SynScan™ Computer Database • 44% more Light-Gathering than 250mm

## COMA CORRECTOR (2") FOR NEWTONIAN REFLECTORS

Optimised for all Sky-Watcher fast-ratio f/4 & f/5 Newtonian Reflectors/Dobsonians, with 2" focuser. Delivers stunning wide-field views with pinpoint stars to the edge of the field. Magnification remains unaltered.

Supplied complete with necessary adaptors for visual use. For imaging use with a DSLR camera, a suitable M48x0.75 adaptor is required to match your camera. Sky-Watcher manufactured Canon and Nikon M48x0.75 adaptors are available.

(Product Codes 20237 & 20238)



Coma Corrector (2") Prod.Code 20233



## ADVANCED FEATURES

All Sky-Watcher EXPLORER-PDS & QUATTRO Newtonian Reflectors feature 0.5mm Ultra-Thin Secondary Mirror Supports to reduce diffraction spikes & light loss, and high quality Paraboloidal primary mirrors to eliminate spherical aberration.

## QUATTRO f/4 DUAL-SPEED PARABOLIC IMAGING NEWTONIANS

The QUATTRO series with their fast f/4 focal ratios, have been specially designed for high quality astrophotography with short exposure times. They are of course also fine telescopes for visual observations. Tube interiors incorporate knife-edge ray traced baffles for superior contrast. Available in steel or carbon fibre tubes.

**CARBON FIBRE TUBE** (selected models only): Carbon fibre is a strong and lightweight material and has much better thermal stability compared to a steel tube. This is especially important for astro-photographers dealing with long exposure times. Imaging telescopes made of less thermally stable material can deviate from optimum focus after long time exposures. With a carbon fibre tube, it can remain in focus for a longer period of time and long exposure images will stay clear and in focus.



All QUATTRO models feature paraboloidal primary mirrors made of **Low Thermal Expansion Glass** resulting in substantially shorter cooling-down times.

D=200mm  
F=800mm



**QUATTRO-8CF OTA**  
CARBON FIBRE TUBE  
Product Code 10235

**QUATTRO-8S OTA**  
STEEL TUBE  
Product code 10238



**QUATTRO-10CF OTA**  
CARBON FIBRE TUBE  
Product Code 10236

**QUATTRO-10S OTA**  
STEEL TUBE  
Product Code 10239

D=250mm F=1000mm



**QUATTRO-12S OTA**

STEEL TUBE

Product Code 10237

D=300mm

F=1200mm

All OTA's supplied with 9x50 Finderscope, Tube Rings, Dovetail Bar & 0.5mm Ultra-Thin Secondary Mirror Supports (Eyepieces not supplied)

**SKY-WATCHER F/4 APLANATIC SUPER COMA CORRECTOR** Product Code 20231  
Optimised for Sky-Watcher superfast f/4 Quattro imaging Newtonians, delivering stunning wide-field views with pinpoint stars to the edge of the flat field. Magnification remains unaltered. Features a four-element design with one element made from FPL51 ED glass. Requires 55mm back focus. Image height 28mm. Outside diameter 50.8mm. A suitable M48x0.75 adaptor is required to match your camera. Sky-Watcher manufactured Canon and Nikon M48x0.75 adaptors are available (Prod.Codes 20237 & 20238).



### 2" DUAL-SPEED LINEAR POWER FOCUSER

(all models): The linear power focuser utilises 4 precision ball bearings to support the drawtube and provide great stability and zero image shift while supporting a heavy eyepiece or camera. Moving the drawtube by the roller rather than a rack and pinion ensures exceptionally smooth operation, great feel and precise adjustability. The dual-speed feature has a second focus knob that has a 10:1 speed reduction to provide the super-fine adjustments even the most demanding users can appreciate.



**SKYLINER CLASSIC PARABOLIC DOBSONIANS** These instruments offer an incredible aperture-to-price ratio. The Dobsonian mount, popularised by John Dobson in the late 1970's, is a very simple but effective method of mounting a Newtonian Reflector, based on the alt-azimuth principle. Fast and easy to set up, the Dobsonian mount consists of a box-type mounting which allows the telescope to pivot in altitude, while the box itself is rotated on a base in azimuth. The secret of the design is to correctly balance the optical tube and to use frictional materials, which allow it to move easily when nudged but to stay in position when not. The mount is designed to be driven by hand as opposed to slow motion controls.

## SKYLINER-150P CLASSIC 153mm (6") f/7.8 PARABOLIC DOBSONIAN

- Magnifications (with eyepieces supplied): x48 & x120 • Highest Practical Power (Potential): x306
- Diameter of Primary Mirror: 153mm • Telescope Focal Length: 1200mm (f/7.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm • 0.5mm Ultra-Thin Secondary Mirror Supports
- Parabolic Primary Mirror • 6x30 Finderscope • Direct SLR Camera Connection
- Wooden Alt-Azimuth Mount with Accessory Tray • 73% more Light Gathering than 114mm



*"For the largest aperture telescope and light-gathering capability for your money, look no further than a Sky-Watcher Classic Dobsonian. The Skyliner range features similar high-precision Newtonian optical tube assemblies found in the Explorer-P Series, coupled to a stable, non-motorised mount that's intuitive to use. A rugged, no-nonsense design for the practical observer that delivers all-round performance on the Moon, planets and dazzling deep-sky performance, especially in the larger apertures." Ade Ashford, www.scopetest.com*



Sky-Watcher Classic Dobsonians feature a unique patented Tensioner/Carrying handle. By lifting the handles together, you can easily carry the whole unit in an upright position with the help of a friend.



## SKYLINER-200P CLASSIC 203mm (8") f/5.9 PARABOLIC DOBSONIAN

- Magnifications (with eyepieces supplied): x48 & x120 • Highest Practical Power (Potential): x406
- Diameter of Primary Mirror: 203mm • Telescope Focal Length: 1200mm (f/5.91)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Dual-Fit 1.25"/2" Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope • Direct SLR Camera Connection
- Wooden Alt-Azimuth Mount with Accessory Tray • 77% more Light Gathering than 150mm

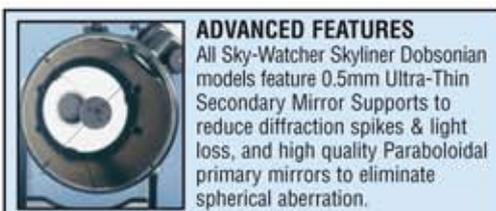
*"We were very pleased with the appearance of all the test objects.... Turning to Saturn, the view really took our breath away...with this scope planetary detail is certainly not compromised.... Fans of deep-sky observing would certainly find the Skyliner satisfying.... The Skyliner was a joy to use."*

BBC Sky At Night Magazine  
(Skyliner-200P)



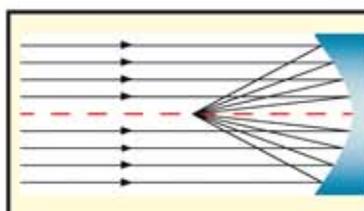
## SKYLINER-250P CLASSIC 254mm (10") f/4.7 PARABOLIC DOBSONIAN

- Magnification (with eyepieces supplied): x48 & x120 • Highest Practical Power (Potential): x508
- Diameter of Primary Mirror: 254mm • Telescope Focal Length: 1200mm (f/4.7)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Dual-Fit 1.25"/2" Focuser
- Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope
- Direct SLR Camera Connection • Wooden Alt-Azimuth Mount with Accessory Tray
- 56% more Light Gathering than 200mm



### ADVANCED FEATURES

All Sky-Watcher Skyliner Dobsonian models feature 0.5mm Ultra-Thin Secondary Mirror Supports to reduce diffraction spikes & light loss, and high quality Paraboloidal primary mirrors to eliminate spherical aberration.

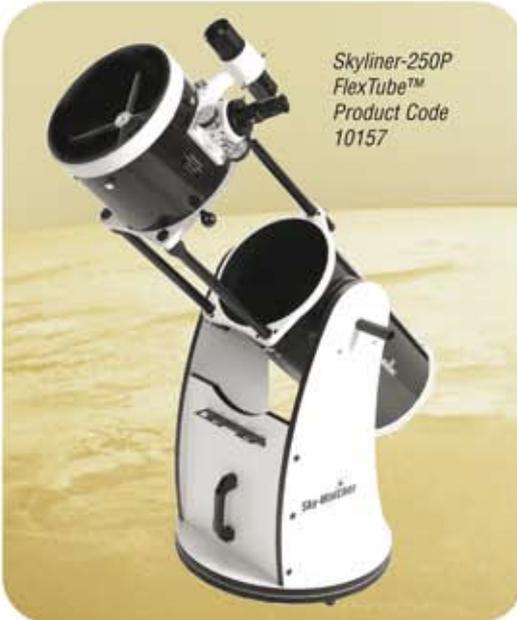


### PARABOLIC PRIMARY MIRRORS

All Sky-Watcher Skyliner Dobsonian Models feature High Quality Parabolic Primary Mirrors to eliminate spherical aberrations. The mirrors are 'parabolised' to bring all the light rays to the same focal point to produce sharp, contrasty images, which are full of detail.

## SKYLINER FLEXTUBE™ PARABOLIC DOBSONIANS

Sky-Watcher's patented FlexTube™ range of truss-tube Dobsonian models all feature collapsible OTA's, making them incredibly easy to transport and store, offering the ultimate flexibility for owning an otherwise large telescope. They all feature 2-part telescope tubes attached with 3-arm supports. When in use the tube is fully extended and each arm's axis is clamped to ensure a rigid, high-performance optical system. After use, the clamps can be loosened and the tube retracted into a convenient compact size. Owning a large telescope has never been so easy!!



*Skyliner-250P  
FlexTube™  
Product Code  
10157*

### SKYLINER-250P FLEXTUBE™ 254mm (10") f/4.7 PARABOLIC DOBSONIAN

- Magnifications (with Eyepieces supplied): x46 & x120 • Highest Practical Power (Potential): x508
- Diameter of Primary Mirror: 254mm • Telescope Focal Length: 1200mm (f/4.7)
- Eyepieces Supplied (1.25"): SP10mm & 26mm • Dual-Fit 1.25"/2" Crayford Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope • Direct SLR Camera Connection
- Wooden Alt-Azimuth Mount with Accessory Tray • 56% more Light Gathering than 200mm

#### SKYLINER FLEXTUBE™ PARABOLIC DOBSONIANS

*"Despite their great performance to cost ratio, Dobsonians can be rather bulky in larger apertures, but Sky-Watcher have addressed this with their innovative and aesthetically-pleasing FlexTube™ range. With their collapsible tube design, these versatile instruments are easy to store and can be readied for observation at a moments notice. Ideal for deep-sky viewing, these 'scopes will also deliver stunning planetary images"*

Ade Ashford, [www.scopetest.com](http://www.scopetest.com)



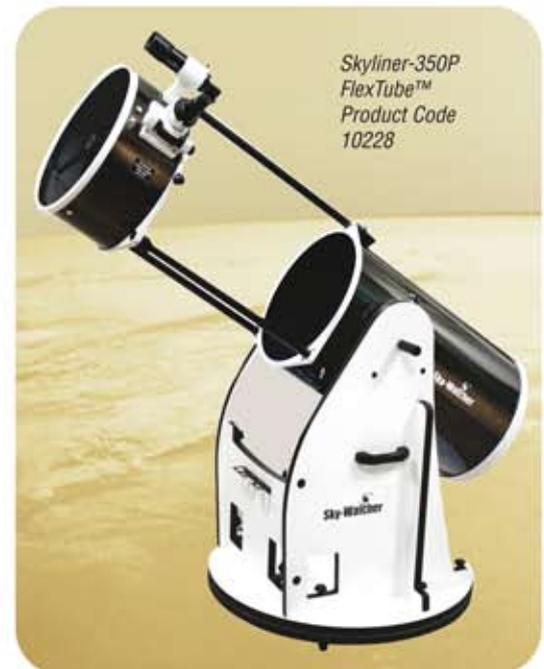
*Skyliner-300P  
FlexTube™  
Product Code  
10158*

### SKYLINER-300P FLEXTUBE™ 305mm (12") f/4.9 PARABOLIC DOBSONIAN

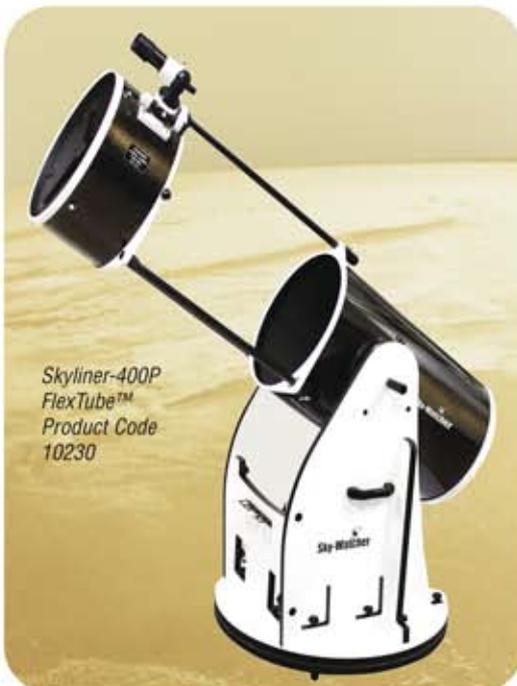
- Magnifications (with Eyepieces supplied): x58 & x150 • Highest Practical Power (Potential): x610
- Diameter of Primary Mirror: 305mm • Telescope Focal Length: 1500mm (f/4.9)
- Eyepieces Supplied (1.25"): SP10mm & 26mm • Dual-Fit 1.25"/2" Crayford Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope • Direct SLR Camera Connection
- Telescope Tube Length 144cm (Extended), 92.5cm (Retracted)
- Wooden Alt-Azimuth Mount with Accessory Tray • 44% more Light Gathering than 250mm

### SKYLINER-350P FLEXTUBE™ 355mm (14") f/4.5 PARABOLIC DOBSONIAN

- Magnifications (with Eyepieces supplied): x62 & x160 • Highest Practical Power (Potential): x710
- Diameter of Primary Mirror: 355mm • Telescope Focal Length: 1600mm (f/4.5) • Parabolic Primary Mirror
- Eyepieces Supplied (1.25"): SP10mm & 26mm • Dual-Fit 1.25"/2" Dual-Speed Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope • Direct SLR Camera Connection
- Telescope Tube Length 151cm (extended), 97cm (retracted) • Base Diameter 79cm
- Wooden Alt-Azimuth Mount with Accessory Tray • 40% more Light Gathering than 300mm



*Skyliner-350P  
FlexTube™  
Product Code  
10228*



*Skyliner-400P  
FlexTube™  
Product Code  
10230*

*"Delivers stunning planetary and deep-sky performance in a compact, readily transportable package."*

*"Extends with effortless precision on three rods that are easily locked into position at their greatest extent. Despite repeatedly collapsing and extending the instrument in the course of an prolonged observing session, the FlexTube's optics remained in perfect alignment."*

*"Saturn is often described as the jewel of the Solar System, but to see it in all its 24-carat splendour you need a 12-inch FlexTube. In recent memory I haven't seen such a sharp and richly rendered image of the ringed planet"*

Ade Ashford, [www.scopetest.com](http://www.scopetest.com)  
(Skyliner-300P)

### SKYLINER-400P FLEXTUBE™ 406mm (16") f/4.4 PARABOLIC DOBSONIAN

- Magnifications (with Eyepieces supplied): x69 & x180 • Highest Practical Power (Potential): x812
- Diameter of Primary Mirror: 406mm • Telescope Focal Length: 1800mm (f/4.4) • Parabolic Primary Mirror
- Eyepieces Supplied (1.25"): SP10mm & 26mm • Dual-fit 1.25"/2" Dual-Speed Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope • Direct SLR Camera Connection
- Telescope Tube Length 168cm (extended), 107cm (retracted) • Base Diameter 86cm
- Wooden Alt-Azimuth mount with accessory tray • 34.5% more Light Gathering than 350mm

## SKYLINER FLEXTUBE SYNSCAN™ COMPUTERISED PARABOLIC GO-TO DOBSONIANS

Combining the power of a large optical tube, the extreme portability of the patented collapsible FlexTube™ design and SynScan™ computerised Go-To technology, they bring over 42,900 celestial objects right in front of your eyes, and automatically track them as they move across the night sky. Features patented Freedom-Find™ dual-encoder technology which also allows the telescope to be moved manually in either axis, without losing its alignment or positional information, giving the user enormous convenience and flexibility during observing sessions. Simply push the tube close to the object and let the computer do the rest of the work!

### SKYLINER-200P FLEXTUBE SYNSCAN™ 200mm (8") f/6 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x46 & x120
- Highest Practical Power (Potential): x400 • Diameter of Primary Mirror: 200mm
- Telescope Focal Length: 1200mm (f/6)
- Eyepieces Supplied (1.25"): SP10mm & 26mm
- Dual-Fit 1.25"/2" Crayford Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope
- Direct SLR Camera Connection
- Alt-Azimuth Mount with Accessory Tray and Built-in Heavy-Duty Servo Motors
- SynScan AZ Computerised Handset with 42,900+ Object Database
- Power Requirement: 12v DC Power Supply (Tip Positive). Sky-Watcher 17Ah Power Tank Recommended
- 77% more Light Gathering than 150mm



### SKYLINER-250P FLEXTUBE SYNSCAN™ 254mm (10") f/4.7 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x46 & x120
- Highest Practical Power (Potential): x508 • Diameter of Primary Mirror: 254mm
- Telescope Focal Length: 1200mm (f/4.7)
- Eyepieces Supplied (1.25"): SP10mm & 26mm
- Dual-Fit 1.25"/2" Crayford Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope
- Direct SLR Camera Connection
- Alt-Azimuth Mount with Accessory Tray and Built-in Heavy-Duty Servo Motors
- SynScan AZ Computerised Handset with 42,900+ Object Database
- Power Requirement: 12v DC Power Supply (Tip Positive). Sky-Watcher 17Ah Power Tank Recommended • 56% more Light Gathering than 200mm



### SKYLINER-300P FLEXTUBE SYNSCAN™ 305mm (12") f/4.9 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x58 & x150
- Highest Practical Power (Potential): x610
- Diameter of Primary Mirror: 305mm
- Telescope Focal Length: 1500mm (f/4.9)
- Eyepieces Supplied (1.25"): SP10mm & 26mm
- Dual-Fit 1.25"/2" Crayford Focuser
- Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports
- 9x50 Finderscope
- Direct SLR Camera Connection
- Alt-Azimuth Mount with Accessory Tray and Built-in Heavy-Duty Servo Motors
- SynScan AZ Computerised Handset with 42,900+ Object Database
- Power Requirement: 12v DC Power Supply (Tip Positive). Sky-Watcher 17Ah Power Tank Recommended
- 44% more Light Gathering than 250mm



*Skyliner-350P  
FlexTube SynScan™  
Product Code  
10227*

## SKYLINER-350P FLEXTUBE SYNSCAN™ 355mm (14") f/4.5 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x62 & x160
- Highest Practical Power (Potential): x710
- Diameter of Primary Mirror: 355mm
- Telescope Focal Length: 1600mm (f/4.5)
- Eyepieces Supplied (1.25"): SP10mm & 26mm
- Dual-Speed 2" Crayford Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope
- Direct SLR Camera Connection • Base Diameter 79cm
- Tube dimensions: 500mm (diameter), 970mm-1510mm (length)
- Alt-Azimuth Mount with Accessory Tray and Built-in Heavy-Duty Servo Motors
- SynScan AZ Computerised Handset with 42,900+ Object Database
- Power Requirement: 12v DC Power Supply (Tip Positive). Sky-Watcher 17Ah Power Tank Recommended
- 40% more Light Gathering than 300m

## SKYLINER-400P FLEXTUBE SYNSCAN™ 406mm (16") f/4.4 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x69 & x180
- Highest Practical Power (Potential): x812
- Diameter of Primary Mirror: 406mm
- Telescope Focal Length: 1800mm (f/4.4)
- Eyepieces Supplied (1.25"): SP10mm & 26mm
- Dual-Speed 2" Crayford Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope
- Direct SLR Camera Connection • Base Diameter 86cm
- Tube dimensions: 540mm (diameter), 1071mm-1685mm (length)
- Alt-Azimuth Mount with Accessory Tray and Built-in Heavy-Duty Servo Motors
- SynScan AZ Computerised Handset with 42,900+ Object Database
- Power Requirement: 12v DC Power Supply (Tip Positive). Sky-Watcher 17Ah Power Tank Recommended
- 34.5% more Light Gathering than 350mm



*Skyliner-400P  
FlexTube SynScan™  
Product Code  
10231*



*Stargate-450P  
Parabolic Truss Tube  
Dobsonian  
Product Code 10242*

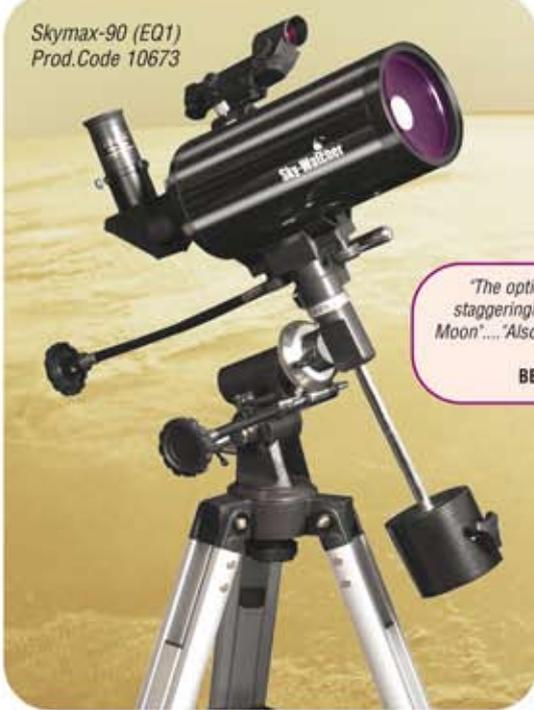
## STARGATE-450P 458mm (18") F/4.1 PARABOLIC TRUSS TUBE DOBSONIAN

Sky-Watcher Stargate Dobsonians with their huge light gathering capabilities provide the ultimate WOW factor experience for aficionados of visual astronomy. The elegant and rigid all metal truss tube design is easily transportable when unassembled, and can be assembled and ready for use in less than 20 minutes. The mount provides smooth manual operation in both Alt and Azimuth axes. Delivers outstanding performance on Planetary and Deep-Sky objects.

- Magnifications (with Eyepieces supplied): x68 & x190
- Highest Practical Power (Potential): x916
- Diameter of Primary Mirror: 458mm
- Telescope Focal Length: 1900mm (f/4.1)
- Eyepieces Supplied: 10mm (1.25") & 28mm (2")
- Collimating Eyepiece (1.25")
- Dual-Speed 2" Crayford Focuser with 1.25" adaptor
- Parabolic Primary Mirror (Patented weight saving design)
- 120mm Secondary Mirror • 9x50 Finderscope • Direct SLR Camera Connection
- Fabric Light Shroud • Manual Alt-Azimuth mount (Metal construction)
- 31% more Light Gathering than 400mm • Overall Weight 50kg

**SKYMAX MAKSUTOV-CASSEGRAINS** The ultimate 'take-anywhere' telescopes, ideal for observing Double Stars, and the surface detail of the Moon and Planets. Despite their small dimensions they pack a powerful punch. Their High-Resolution, long focal length optical systems are multi-coated to maximise contrast and image sharpness. The regular Skymax Maksutovs come in apertures of 90mm & 102mm and are available either complete with equatorial mounts and tripods, or as tube assemblies. All these optical tube assemblies can be mounted onto a standard photographic tripod. Whether your requirement is for terrestrial or astronomical use, these compact scopes are the perfect companion.

Skymax-90 (EQ1)  
Prod.Code 10673



*"The optics of the review instrument were staggeringly good, giving superb views of the Moon'....'Also excels for double-star observations"*  
Skymax-90 (EQ1)  
BBC Sky At Night Magazine

### SKYMAX-90 (EQ1)

#### 90mm (3.5") f/13.8 MAKSUTOV-CASSEGRAIN

- Magnifications (with eyepieces supplied): x50 & x125
- Highest Practical Power (Potential): x180 • Diameter of Primary Mirror: 90mm
- Telescope Focal Length: 1250mm (f/13.88)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Red Dot Finder • 1.25"/31.7mm Star Diagonal
- Focusing by Moving Primary Mirror • EQ1 Equatorial Mount
- Tripod Bush for Photo-Tripod Mounting • Aluminium Tripod with Accessory Tray

Skymax-90 Tabletop  
Product Code 10669



### SKYMAX-90 TABLETOP

#### 90mm (3.5") f/13.8 MAKSUTOV-CASSEGRAIN

- Magnifications (with eyepieces supplied): x50, x100, x125, x250
- Diameter of Primary Mirror: 90mm
- 1.25"/31.7mm Star Diagonal
- Telescope Focal Length: 1250mm (f/13.88)
- Eyepieces Supplied (1.25"): 10mm and 25mm
- x2 Barlow Lens
- Red Dot Finderscope
- Tripod Bush for Photo-Tripod Mounting
- Tabletop EQ1 Mount
- Soft Carrying Bag

Skymax-102 (EQ2)  
Prod.Code 10674



### SKYMAX MAKSUTOV-CASSEGRAINS

*"Since its conception in the 1940s, the name Maksutov has become synonymous with compact, high-precision optical instruments. Sky-Watcher's range of SKYMAX Maksutov-Cassegrain telescopes remain true to this hallowed tradition. Available in a range of apertures and focal lengths to suit just about any land or sky-based observation where contrast and clarity of image are paramount. Capable of high-power viewing, their lunar and planetary performance is extremely good."*

Ade Ashford, [www.scopetest.com](http://www.scopetest.com)

### SKYMAX-102 (EQ2)

#### 102mm (4") f/12.7 MAKSUTOV-CASSEGRAIN

- Magnifications (with eyepieces supplied): x52 & x130
- Highest Practical Power (Potential): x204 • Diameter of Primary Mirror: 102mm
- Telescope Focal Length: 1300mm (f/12.74)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Red Dot Finder • 1.25"/31.7mm Star Diagonal
- Focusing by Moving Primary Mirror • EQ2 Equatorial Mount
- Tripod Bush for Photo-Tripod Mounting • Aluminium Tripod with Accessory Tray
- 28% more Light Gathering than 90mm

Prod.Code 10670



### SKYMAX-90T (Tube Assembly)

#### 90mm (3.5") f/13.8 MAKSUTOV-CASSEGRAIN

Specification and optics same as Skymax-90 (EQ1) but supplied without Equatorial Mount and Tripod.

Prod.Code 10671



### SKYMAX-102T (Tube Assembly)

#### 102mm (4") f/12.7 MAKSUTOV-CASSEGRAIN

Specification and optics same as Skymax-102 (EQ2) but supplied without Equatorial Mount and Tripod.

## SKYMAX 127mm, 150mm & 180mm MAKSUTOV-CASSEGRAINS

These instruments excel for high-power, high-resolution Lunar and Planetary applications. They both employ super-high contrast optical systems, utilising high-transmission multi-coatings on all optical surfaces, for optimum optical performance. The quality of each telescope is monitored by means of a Ronchi test and an artificial star test (See foot of page 22 for details). No effort is spared to reach optimal optical quality.



Skymax-127 (EQ3-2)  
Prod.Code 10675

### SKYMAX-127 (OTA) 127mm (5") f/11.8 MAKSUTOV-CASSEGRAIN

- Magnifications with Eyepieces Supplied: x60 & x150
- Highest Practical Power (Potential): x254
- Diameter of Primary Mirror: 127mm
- Telescope Focal Length: 1500mm (f/11.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder • 1.25"/31.7mm Star Diagonal
- Focusing by Moving Primary Mirror • Dovetail Mounting Bar



Skymax-127 (OTA)  
Prod.Code 10672

### SKYMAX-127 (EQ3-2) 127mm (5") f/11.8 MAKSUTOV-CASSEGRAIN

- Magnifications (with eyepieces supplied): x60 & x150
- Highest Practical Power (Potential): x254
- Diameter of Primary Mirror: 127mm
- Telescope Focal Length: 1500mm (f/11.81)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder
- 1.25"/31.7mm Star Diagonal
- EQ3-2 Deluxe Equatorial Mount
- Focusing by Moving Primary Mirror
- Built-in Polar Alignment Scope Holder
- Aluminium Tripod with Accessory Tray
- 55% more Light gathering than 102mm

#### REVIEW OF SKYMAX-127 OTA

"The rings of Saturn appeared sharply defined...Turning to the Moon, it was a revelation through the Skymax...This telescope certainly does a good job on the more detailed Solar System objects...In the deep sky, the Skymax performed well on everything to galaxies to nebulae" **BBC Sky At Night Magazine**

### SKYMAX-127 (EQ3 PRO) 127mm (5") f/11.8 GO-TO MAKSUTOV-CASSEGRAIN

- Magnifications (with eyepieces supplied): x60 & x150
- Highest Practical Power (Potential): x254
- Diameter of Primary Mirror: 127mm
- Telescope Focal Length: 1500mm (f/11.81)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder • 1.25"/31.7mm Star Diagonal
- EQ3 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Focusing by Moving Primary Mirror • Built-in Polar Alignment Scope
- Aluminium Tripod with Accessory Tray • 55% more Light gathering than 102mm



Skymax-127 (EQ3 PRO)  
Prod.Code 10672/20230

### SKYMAX-150 (OTA) 150mm (6") f/12 MAKSUTOV-CASSEGRAIN

- Magnifications with Eyepieces Supplied: x64
- Highest Practical Power (Potential): x450
- Diameter of Primary Mirror: 150mm
- Telescope Focal Length: 1800mm (f/12)
- Eyepieces Supplied (2"): 28mm LET
- 9x50 Finderscope & Bracket
- 2"/50.8mm Star Diagonal
- Focusing by Moving Primary Mirror
- Dovetail Mounting Bar
- 39.5% more Light gathering than 127mm



Skymax-150 (OTA)  
Prod.Code 10885



JUPITER TAKEN THROUGH SKYMAX-127  
IMAGE COURTESY OF RUSSELL HAWKER, ENG.

Precision  
Computerised  
GO-TO  
Mount!!

"Jupiter was a mesmerising sight" .....  
"High contrast optics indeed"  
**BBC Sky At Night Magazine**

#### SKYMAX BLACK DIAMOND SERIES MAKSUTOV-CASSEGRAINS

"For the ultimate Maksutov-Cassegrain experience, look no further than the SKYMAX Black Diamond range. Apart from their striking livery, selected models in this series use high-index Schott glass to deliver high power capability with a heightened degree of colour correction. For high-resolution lunar and planetary imaging, these optical tubes deliver stunning performance for the money." **Ade Ashford, www.scopetest.com**



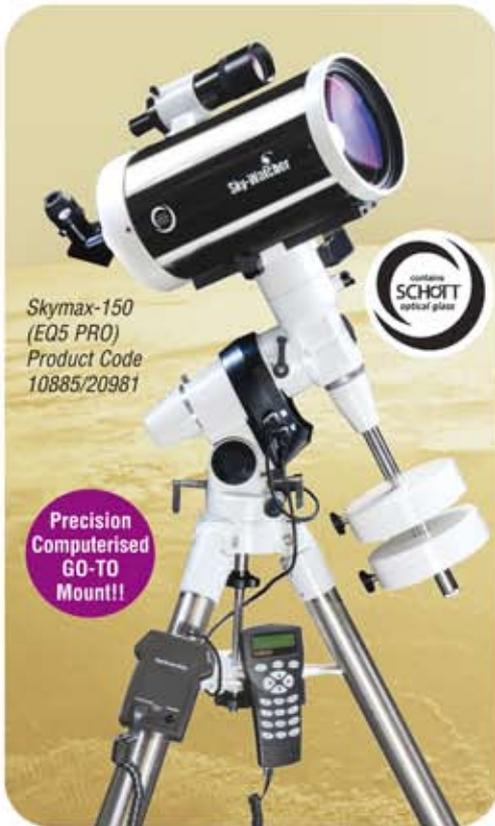
Skymax-150 (EQ5)  
Prod.Code  
10885/20464

### SKYMAX-150 (EQ5) 150mm (6") f/12 MAKSUTOV-CASSEGRAIN

- Magnifications with eyepieces supplied: x64
- Highest Practical Power (Potential): x450
- Diameter of Primary Mirror: 150mm
- Telescope Focal Length: 1800mm (f/12)
- Eyepieces Supplied (2"): 28mm LET
- 9x50 Finderscope & Bracket
- 2"/50.8mm Star Diagonal
- Focusing by Moving Primary Mirror
- EQ5 Deluxe Heavy Duty Equatorial Mount
- Built-in Polar Alignment Scope Holder
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- 39.5% more Light gathering than 127mm

## World Exclusive Co-Branding Agreement with Schott

Selected high-end Sky-Watcher telescopes benefit from the inclusion of Schott glass in their construction. Schott is the recognised world leader in glass utilised for precision optical lens systems, including medical instrumentation and famous brand camera lenses.



Skymax-150  
(EQ5 PRO)  
Product Code  
10885/20981

Precision  
Computerised  
GO-TO  
Mount!!



### SKYMAX-150 (EQ5 PRO) 150mm (6") f/12 GO-TO MAKSUTOV-CASSEGRAIN

- Magnification with eyepiece supplied: x64 • Highest Practical Power (Potential): x450
- Diameter of Primary Mirror: 150mm • Telescope Focal Length: 1800mm (f/12)
- Eyepiece Supplied (2"): 28mm LET • 9x50 Finderscope & Bracket • 2"/50.8mm Star Diagonal
- EQ5 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Focusing by Moving Primary Mirror • Built-in Polar Alignment Scope
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray • 39.5% more Light gathering than 127mm

### SKYMAX-180 (OTA) 180mm (7.1") f/15 MAKSUTOV-CASSEGRAIN

- Magnification with eyepieces supplied: x135 & x300
- Highest Practical Power (Potential): x540
- Diameter of Primary Mirror: 180mm
- Telescope Focal Length: 2700mm (f/15)
- Eyepieces Supplied (1.25"): 9mm & 20mm LET
- 9x50 Finderscope & Bracket • 2"/50.8mm Star Diagonal
- Focusing by Moving Primary Mirror
- Dovetail Mounting Bar
- 44% more Light gathering than 150mm



Skymax-180 (OTA)  
Product Code 10217



SATURN TAKEN THROUGH  
SKYMAX-150  
IMAGE COURTESY OF  
IAN PETERS, ENGLAND

### SKYMAX-180 (HEQ5 PRO) 180mm (7.1") f/15 GO-TO MAKSUTOV-CASSEGRAIN

- Magnification with eyepieces supplied: x135 & x300
- Highest Practical Power (Potential): x540
- Diameter of Primary Mirror: 180mm
- Telescope Focal Length: 2700mm (f/15)
- Eyepieces Supplied (1.25"): 9mm & 20mm LET
- 9x50 Finderscope & Bracket • 2"/50.8mm Star Diagonal
- Focusing by Moving Primary Mirror • Dovetail Mounting Bar
- HEQ5 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Built-in Polar Alignment Scope
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- 44% more Light gathering than 150mm



Skymax-180  
(HEQ5 PRO)  
Product Code  
10217/20886



Precision  
Computerised  
GO-TO  
Mount!!

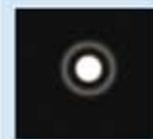


Skymax-180  
(EQ6 PRO)  
Product Code  
10217/20854

Precision  
Computerised  
GO-TO  
Mount!!

### SKYMAX-180 (EQ6 PRO) 180mm (7.1") f/15 GO-TO MAKSUTOV-CASSEGRAIN

- Magnification with eyepieces supplied: x135 & x300
- Highest Practical Power (Potential): x540
- Diameter of Primary Mirror: 180mm
- Telescope Focal Length: 2700mm (f/15)
- Eyepieces Supplied (1.25"): 9mm & 20mm LET
- 9x50 Finderscope & Bracket • 2"/50.8mm Star Diagonal • Focusing by Moving Primary Mirror
- EQ6 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Dovetail Mounting Bar
- Built-in Polar Alignment Scope • 2" Stainless Steel Pipe Tripod with Accessory Tray
- 44% more Light gathering than 150mm



The artificial star test proves the ability of the optics to reproduce a pinpoint light source (star) as a pinpoint image. Concentric light circles will surround the pinpoint light dot. These increasingly faint light circles are unavoidable due to diffraction but being well concentric around the central light dot they are a warranty for good optical alignment of the lenses.



The essential function of a telescope is gathering starlight without "disturbing" it. This means changing the path of the lightwaves without altering the lightwave itself. Lightwaves all together are referred to as a wavefront. Alterations in this wavefront caused by the optics should be avoided. A wavefront analysis by Ronchi test will show an absence of wavefront alterations if the black and white lines (interference pattern) are perfectly straight and parallel.

**EXPLORER-190MN DS-PRO ASTROGRAPH 190mm (7.5") f/5.26 DUAL-SPEED MAKSUTOV-NEWTONIAN AN ASTRO-IMAGER'S DREAM TELESCOPE!!** The exciting Explorer-190MN is just what astrophotographers and serious visual observers have been looking for. Delivers truly stunning image quality, providing high-contrast, perfectly flat images, free from false colour. The Maksutov-Newtonian design provides large aperture Apochromatic performance, with exceptional field correction, in a compact, amazingly affordable package. Stars appear as classic pinpoints across the entire field. Perfectly optimised for modern DSLR cameras. The premium optics are housed in a robust rolled-steel tube for excellent mechanical integrity. Five internal knife-edge baffles are included to eliminate internal reflections and further enhance contrast. The Primary Mirror is made of low thermal expansion glass for a significantly reduced cool-down time. Compared to a similarly sized Schmidt-Newtonian, the Maksutov-Newtonian yields a sharper and more contrasty image. Naturally, the Maksutov-Newtonian is an excellent visual performer too!!

**EXPLORER-190MN DS-PRO MAKSUTOV-NEWTONIAN OTA (WITH DUAL-SPEED FOCUSER)**  
*"The Schott glass corrector and optimised internal light baffles of Sky-Watcher's Explorer-190MN Pro ensures it delivers pin-sharp images, exceptional contrast, tight control of field curvature, spherical aberration and coma over a wide focal plane. Perfect for CCD and large-format DSLR cameras, this 190mm f/5.26 Maksutov-Newtonian offers the serious astroimager a premium astro-graphic instrument at a very competitive price - and it's a highly capable visual performer too!!"* Ade Ashford, [www.scopetest.com](http://www.scopetest.com)



**EXPLORER-190MN DS-PRO (OTA) 190mm (7.5") f/5.26 MAKSUTOV-NEWTONIAN**

- Highest Practical Power (Potential): x570 • Diameter of Primary Mirror: 190mm • Diameter of Secondary Mirror/Central Obstruction: 50mm/26%
- Telescope Focal Length: 1000mm (f/5.26) • Dual-Speed 10:1 Crayford Focuser 2"/50.8mm • 9x50 Right-Angled Finderscope
- Supplied without Eyepieces • Dovetail Mounting Bar & Tube Rings

*"In terms of build quality, the OTA itself is beautifully constructed. It's predominantly black sparkling lively oozes quality"... there were pin sharp stars all the way out to the edge of the field. It really is like having a 190mm triplet apochromat in your hands, but for a fraction of the cost!... "Achieving greater than the quoted 500x was absolutely possible"... the image was nothing short of stunning at both the eyepiece and on the camera, close to matching the best I had seen from my C11!... "The field of view works incredibly well with larger format CCD or DSLR cameras in particular"... "The optics on this telescope are truly first class!... "One only has to look at some of the remarkable images taken by 190MN users to realise you can paint a real masterpiece"*  
Astronomy Now Magazine

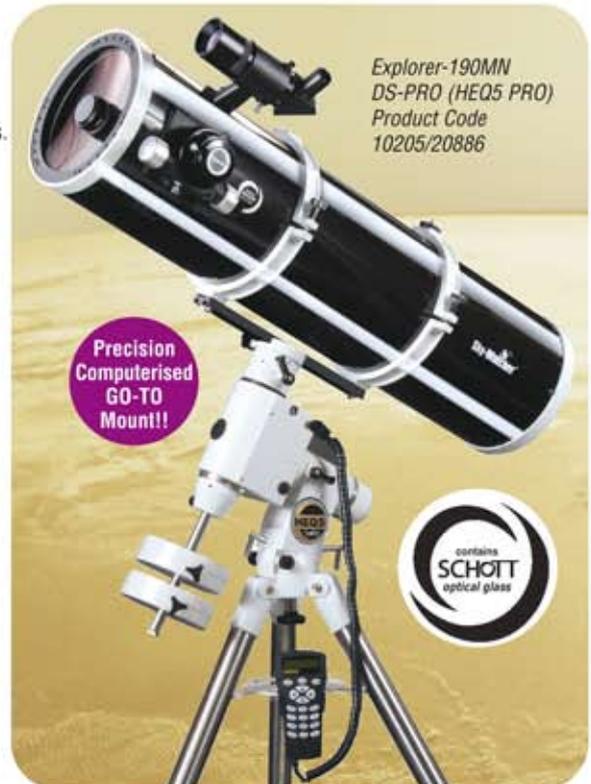


Explorer-190MN DS-PRO OTA  
Product Code 10205



**EXPLORER-190MN DS-PRO (HEQ5 PRO) 190mm (7.5") f/5.26 GO-TO MAKSUTOV-NEWTONIAN**

- Highest Practical Power (Potential): x570 • Diameter of Primary Mirror: 190mm
- Diameter of Secondary Mirror/Central Obstruction: 50mm/26%
- Telescope Focal Length: 1000mm (f/5.26) • Dual-Speed 10:1 Crayford Focuser (2"/50.8mm)
- 9x50 Right-Angled Finderscope • Supplied without Eyepieces
- HEQ5 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply) • 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Built-in Polar Alignment Scope • 1.75" Stainless Steel Pipe Tripod with Accessory Tray



Explorer-190MN DS-PRO (HEQ5 PRO)  
Product Code 10205/20886

Precision Computerised GO-TO Mount!!



Explorer-190MN DS-PRO (EQ6 PRO)  
Product Code 10205/20854



Precision Computerised GO-TO Mount!!

ORION NEBULA TAKEN THROUGH EXPLORER-190MN  
IMAGE COURTESY OF STEVE LOUGHRAN, ENGLAND



**EXPLORER-190MN DS-PRO (EQ6 PRO)**

**190mm (7.5") f/5.26 GO-TO MAKSUTOV-NEWTONIAN**

- Highest Practical Power (Potential): x570 • Diameter of Primary Mirror: 190mm
- Diameter of Secondary Mirror/Central Obstruction: 50mm/26% • Telescope Focal Length: 1000mm (f/5.26)
- Dual-Speed 10:1 Crayford Focuser (2"/50.8mm) • 9x50 Right-Angled Finderscope
- Supplied without Eyepieces • Dovetail Mounting Bar
- EQ6 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Built-in Polar Alignment Scope • 2" Stainless Steel Pipe Tripod with Accessory Tray

**STARTRAVEL SHORT-TUBE REFRACTORS** Compact, two-element air-spaced, multi-coated achromatic refractors, are well proven performers for 'Rich-Field' views of star fields, clusters, nebulae, bright galaxies, planets, the Moon and, the Sun (with correct safety filtering!), as well as giving excellent terrestrial views. These wide-field telescopes are also highly portable. They are also popular for use as guide scopes on larger telescopes. All models excel as fixed aperture lenses for both Astrophotography and terrestrial photography. Their "fast" focal ratios make them useful for capturing lunar and solar eclipses as well as nature photographs.



Startravel-80  
Tabletop  
Product Code  
10730

**STARTRAVEL ACHROMATIC REFRACTORS** *For the ultimate in rugged travel 'scopes, a short focal ratio refractor is hard to beat. They hold collimation (optical alignment) well even under harsh treatment. The Sky-Watcher STARTRAVEL range offers good value for money and specifications that lend themselves well to terrestrial bird watching and wide-angle, deep-sky celestial viewing as well as terrestrial and astrophotography.*  
Ade Ashford, [www.scopetest.com](http://www.scopetest.com)



Startravel-80 (AZ3)  
Product Code 10739



Startravel-80 (EQ1)  
Product Code  
10731

## STARTRAVEL-80 TABLETOP

### 80mm (3.1") f/5 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x16, x32, x40, x80
- Objective Lens Diameter: 80mm
- Telescope Focal Length: 400mm (f/5)
- Eyepieces Supplied (1.25"): 10mm and 25mm
- x2 Barlow Lens
- 90° Diagonal Mirror 1.25"
- Red Dot Finder • Table-Top EQ1 Mount
- Tripod Bush for Photo-Tripod Mounting
- Soft Carrying Bag

## STARTRAVEL-80 (EQ1)

### 80mm (3.1") f/5 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x16, x32, x40, x80
- Highest Practical Power (Potential): x160
- Objective Lens Diameter: 80mm
- Telescope Focal Length: 400mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens (1.25") • Direct SLR Camera Connection
- 6x30 Finderscope • 1.25"/31.7mm Star Diagonal
- Multi-Coated Objective Lens • EQ1 Equatorial Mount
- Aluminium Tripod with Accessory Tray
- 77% more Light Gathering than 60mm

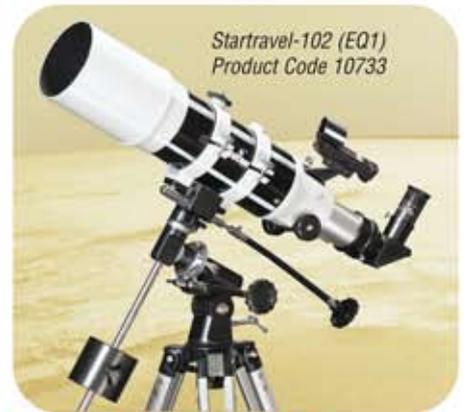


Startravel-102 (AZ3)  
Product Code 10732

## STARTRAVEL-80 (AZ3)

### 80mm (3.1") f/5 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x16, x32, x40 & x80
- Highest Practical Power (Potential): x160
- Objective Lens Diameter: 80mm
- Telescope Focal Length: 400mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens (1.25")
- Direct SLR Camera Connection
- Red Dot Finder
- 45° Erect Image Diagonal 1.25"
- Multi-Coated Objective Lens
- AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray



Startravel-102 (EQ1)  
Product Code 10733

## STARTRAVEL-102 (AZ3)

### 102mm (4") f/4.9 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x20 & x50
- Highest Practical Power (Potential): x204
- Objective Lens Diameter: 102mm
- Telescope Focal Length: 500mm (f/4.9)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Direct SLR Camera Connection • Red Dot Finder
- Dual-Fit 1.25"/2" Focuser
- 45° Erect Image Diagonal 1.25"
- Multi-Coated Objective Lens
- AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray
- 62.5% more Light Gathering than 80mm



ANDROMEDA TAKEN THROUGH STARTRAVEL-102  
IMAGE COURTESY OF FREDERIC CARON, CANADA



TAKEN THROUGH  
STARTRAVEL-80 PHOTO  
COURTESY OF WILLIAM  
RONALD, VANCOUVER, BC,  
CANADA

WARNING: SPECIALIST  
SAFETY FILTERING SHOULD  
ALWAYS BE USED WHEN  
VIEWING THE SUN.

## STARTRAVEL-102 (EQ1)

### 102mm (4") f/4.9 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x20, x40, x50, x100
- Highest Practical Power (Potential): x204
- Objective Lens Diameter: 102mm
- Telescope Focal Length: 500mm (f/4.9)
- x2 Deluxe Barlow Lens 1.25" (with camera adaptor)
- Direct SLR Camera Connection • Red Dot Finder
- Dual-Fit 1.25"/2" Focuser
- 1.25"/31.7mm Star Diagonal
- EQ1 Equatorial Mount
- Multi-Coated Objective Lens
- Aluminium Tripod with Accessory Tray
- 62.5% more Light Gathering than 80mm

## STARTRAVEL-80T (Tube Assembly)

### 80mm (3.1") f/5 ACHROMATIC REFRACTOR

Specification and optics same as Startravel-80 (EQ1) but comes with 45° Erect Image Diagonal, and supplied without Equatorial Mount and Tripod. Complete with tube rings & 1/4-20 tripod adaptor.



Prod Code 10734

## STARTRAVEL-102T (Tube Assembly)

### 102mm (4") f/4.9 ACHROMATIC REFRACTOR

Specification and optics same as Startravel-102 (AZ3) but supplied without Equatorial Mount and Tripod. Complete with tube rings & 1/4-20 tripod adaptor plate.



Prod Code 10735

## STARTRAVEL-120 (AZ3)

### 120mm (4.75") f/5 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x24 & x60 • Highest Practical Power (Potential): x240
- Objective Lens Diameter: 120mm • Telescope Focal Length: 600mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Direct SLR Camera Connection
- Red Dot Finder • Dual-Fit 1.25"/2" Focuser • 45° Erect Image Diagonal 1.25"/31.7mm
- Multi-Coated Objective Lens • AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray • 38% more Light Gathering than 102mm

### STARTRAVEL-120T (Tube Assembly) 120mm (4.75") f/5

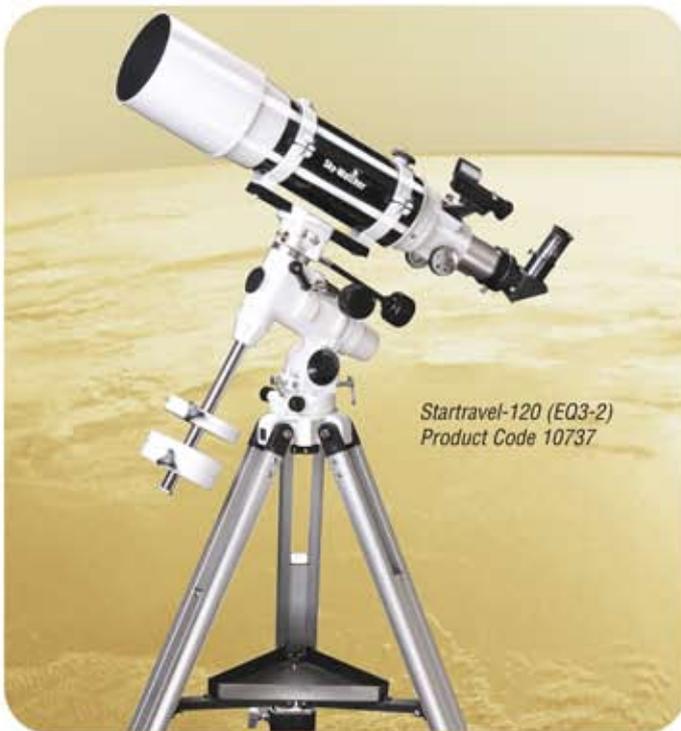
**ACHROMATIC REFRACTOR** Specification and optics same as Startravel-120 (AZ3) but supplied without mount and tripod. Complete with Tube Rings and Dovetail Mounting Bar.



Product Code 10940



Startravel-120 (AZ3)  
Product Code 10736



Startravel-120 (EQ3-2)  
Product Code 10737

## STARTRAVEL-120 (EQ3-2)

### 120mm (4.75") f/5 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x24, x48, x60, x120
- Highest Practical Power (Potential): x240 • Objective Lens Diameter: 120mm
- Telescope Focal Length: 600mm (f/5) • Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with camera adaptor) • Direct SLR Camera Connection
- Red Dot Finder • Dual-Fit 1.25"/2" Focuser • 1.25"/31.7mm Star Diagonal
- Multi-Coated Objective Lens • EQ3-2 Deluxe Equatorial Mount
- Built-in Polar Alignment Scope Holder • Aluminium Tripod with Accessory Tray
- 38% more Light Gathering than 102mm

## STARTRAVEL-150 (EQ5)

### 150mm (6") f/5 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x30 & x75 • Highest Practical Power (Potential): x300
- Objective Lens Diameter: 150mm • Telescope Focal Length: 750mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Direct SLR Camera Connection
- 9x50 Finderscope • 2"/50.8mm Star Diagonal • Dual-Fit 1.25"/2" Focuser
- Multi-Coated Objective Lens • EQ5 Deluxe Heavy-Duty Equatorial Mount
- Built-in Polar Alignment Scope Holder • 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- 56% more Light Gathering than 120mm



Startravel-150 (EQ5)  
Product Code 10926/20464



Startravel-150  
(HEQ5 PRO)  
Product Code  
10926/20886

Precision  
Computerised  
GO-TO  
Mount!!

ROSETTE NEBULA TAKEN  
THROUGH STARTRAVEL-102  
IMAGE COURTESY OF  
CLAUDE BARRIL, CANADA



## STARTRAVEL-150 (HEQ5 PRO)

### 150mm (6") f/5 GO-TO ACHROMATIC REFRACTOR

- Magnifications (with Eyepieces supplied): x30 & x75
- Highest Practical Power (Potential): x300 • Objective Lens Diameter: 150mm
- Telescope Focal Length: 750mm (f/5) • Eyepieces Supplied (1.25"): 10mm & 25mm
- Direct SLR Camera Connection • 9x50 Finderscope • Dual-Fit 1.25"/2" Focuser
- 2"/50.8mm Star Diagonal • 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- Multi-Coated Objective Lens • Built-in Polar Alignment Scope
- HEQ5 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues
- 56% more Light Gathering than 120mm

## STARTRAVEL-150 (OTA) 150mm (6") f/5 ACHROMATIC REFRACTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 2" Star Diagonal, 9x50 Finderscope, Tube Rings and Dovetail Mounting Bar. Product Code 10926

The highly affordable Sky-Watcher MERCURY series of refractor telescope allow you to take your first steps into the fascinating world of astronomy. They are supplied with good levels of equipment for both astronomical and terrestrial observations. Although similar externally to many other telescopes on the market, these telescopes are supplied with superior 1.25" eyepieces and accessories (not 0.96" or hybrid 1.25") and moreover, the eyepieces have been specially selected to give a much more useful and practical range of magnifications, to increase your viewing experience. The Sky-Watcher CAPRICORN models make excellent choices for the more serious novice astronomer.

## MERCURY-607 60mm (2.4") f/11.6 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x35, x70, x140
- Objective Lens Diameter: 60mm • Telescope Focal Length: 700mm (f/11.66)
- Eyepieces Supplied (1.25"): 10mm & 20mm • x1.5 Erecting Eyepiece
- x2 Barlow Lens 1.25" • 5x24 Finderscope • 1.25"/31.7mm Star Diagonal
- Fully Coated Optics • Alt-Azimuth Mount • Aluminium Tripod with Accessory Tray



Mercury-707  
Product Code 10720



Mercury-607  
Product Code 10718

## MERCURY-707 70mm (2.75") f/10 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x28, x56, x70 & x140
- Highest Practical Power (Potential): x140 • Objective Lens Diameter: 70mm
- Telescope Focal Length: 700mm (f/10)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Barlow Lens • 6x24 Finderscope
- 1.25"/31.7mm Star Diagonal • Multi-Coated Objective Lens • Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray • 36% more Light Gathering than 60mm

## MERCURY-705 (AZ3) 70mm (2.75") f/7.1 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x20 & x50
- Highest Practical Power (Potential): x140 • Objective Lens Diameter: 70mm
- Telescope Focal Length: 500mm (f/7.1) • Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder • 45° Erect Image Diagonal 1.25" • AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray • 36% more Light Gathering than 60mm



Mercury-705 (AZ3)  
Product Code 10721

Capricorn-70 (EQ1)  
Prod.Code 10796

*"Fine Optics and Accessories"  
...."Meets all expectations and is  
the perfect starter scope"  
BBC Sky At Night Magazine*

## CAPRICORN-70 (EQ1) 70mm (2.75") f/12.8 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x36, x72, x90, x180
- Highest Practical Power (Potential): x140
- Objective Lens Diameter: 70mm
- Telescope Focal Length: 900mm (f/12.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens • Red Dot Finder
- 1.25"/31.7mm Star Diagonal
- Multi-Coated Objective Lens
- EQ1 Equatorial Mount
- Aluminium Tripod with Accessory Tray
- 36% more Light Gathering than 60mm



MOON TAKEN THROUGH CAPRICORN-70 (EQ1)  
IMAGE COURTESY OF DMITRY MATSNEV, RUSSIA  
*"I continue to open for myself the new opportunities  
of this excellent telescope"*



The Sky-Watcher EVOSTAR series are two-element, air-spaced, multi-coated objective achromatic refractors. They are truly outstanding, high-performance, high-resolution instruments manufactured to extremely high standards of optical and mechanical precision. With their long focal lengths and breathtaking optical performance, they are ideal for the detailed high-power study of the Moon, Planetary Surfaces and other objects in our solar system, giving crisp contrasty images. These telescope packages will stand you in great stead for a lifetime of serious astronomical viewing.



Capricorn-70 (AZ3)  
Product Code 10795

## CAPRICORN-70 (AZ3) 70mm (2.75") f/12.8 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x36, x72, x90, x180 • Highest Practical Power (Potential): x140
- Objective Lens Diameter: 70mm • Telescope Focal Length: 900mm (f/12.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Barlow Lens • 6x24 Finderscope
- 90° Erect Image Diagonal 1.25" • Multi-Coated Objective Lens • AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray • 36% more Light Gathering than 60mm



Evostar-90 (AZ3)  
Product Code 10723

### EVOSTAR ACHROMATIC REFRACTORS

"Refractors have long been coveted by many observers since the unobstructed optical system offers high contrast views much prized by lunar and planetary observers as well as many aspects of deep-sky viewing. Sky-Watcher's EVOSTAR range delivers a comprehensive range of robust, low-maintenance tube assemblies on matching mounts to suit all requirements."

Ade Ashford, [www.scopetest.com](http://www.scopetest.com)



45 degree erect image diagonal is required for daytime nature study



90 degree diagonal is preferred for nighttime astronomical observations

## EVOSTAR-90 (AZ3) 90mm (3.5") f/10 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x36 & x90
- Highest Practical Power (Potential): x180 • Objective Lens Diameter: 90mm • 6x30 Finderscope
- Telescope Focal Length: 900mm (f/10) • Eyepieces Supplied (1.25"): 10mm & 25mm
- 45° Erect Image Diagonal 1.25" • Multi-Coated Objective Lens • AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray • 65% more Light Gathering than 70mm

## EVOSTAR-90 (EQ3-2) 90mm (3.5") f/10 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x36, x72, x90, x180
- Highest Practical Power (Potential): x180 • Objective Lens Diameter: 90mm
- Telescope Focal Length: 900mm (f/10) • Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with camera adaptor) • 6x30 Finderscope
- 1.25"/31.7mm Star Diagonal • Multi-Coated Objective Lens
- EQ3-2 Deluxe Equatorial Mount
- Built-in Polar Alignment Scope Holder
- Aluminium Tripod with Accessory Tray
- 65% more Light Gathering than 70mm



Evostar-90 (EQ2)  
Product Code 10724



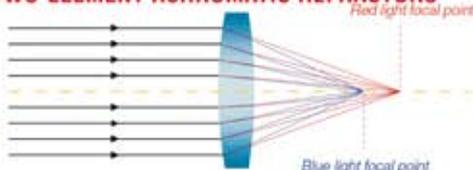
Evostar-90 (EQ3-2)  
Product Code 10725

## EVOSTAR-90 (EQ2) 90mm (3.5") f/10 ACHROMATIC REFRACTOR

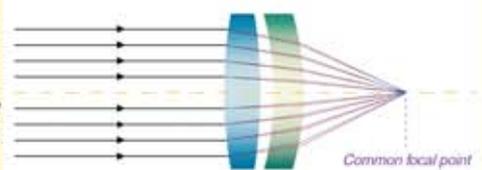
- Magnifications (with optics supplied): x36, x72, x90, x180 • Highest Practical Power (Potential): x180
- Objective Lens Diameter: 90mm • 6x30 Finderscope • Telescope Focal Length: 900mm (f/10)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with camera adaptor)
- 1.25"/31.7mm Star Diagonal • Multi-Coated Objective Lens • EQ2 Equatorial Mount
- Aluminium Tripod with Accessory Tray • 65% more Light Gathering than 70mm

### AIR-SPACED TWO-ELEMENT ACHROMATIC REFRACTORS

An ordinary single lens brings different wavelengths of light to different focal points



All Sky-Watcher Refractors are built with air-spaced, two-element lenses, which reduce chromatic aberration more than standard doublet lenses.





Evostar-102 (EQ3-2)  
Product Code 10726

## EVOSTAR-102 (EQ3-2) 102mm (4") f/9.8 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x40 & x100
- Highest Practical Power (Potential): x204 • Objective Lens Diameter: 102mm
- 6x30 Finderscope • Telescope Focal Length: 1000mm (f/9.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Direct SLR Camera Connection
- Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal
- Multi-Coated Objective Lens • EQ3-2 Deluxe Equatorial Mount
- Built-in Polar Alignment Scope Holder • Aluminium Tripod with Accessory Tray
- 28% more Light Gathering than 90mm

*"Highly regarded, reliable 102mm Retracting Telescope giving bright, contrasty images"*

**The Independent**  
*(The Ten Best Telescopes feature. Chosen by Robin Scagell, Vice President of The Society for Popular Astronomy)*



Evostar-120 (EQ3-2)  
Product Code 10727

## EVOSTAR-120 (EQ3-2)

### 120mm (4.75") f/8.3 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x40 & x100
- Highest Practical Power (Potential): x240 • Objective Lens Diameter: 120mm
- Telescope Focal Length: 1000mm (f/8.33) • Eyepieces Supplied (1.25"): 10mm & 25mm
- Direct SLR Camera Connection • 9x50 Finderscope • Dual-Fit 1.25"/2" Focuser
- 2"/50.8mm Star Diagonal • Multi-Coated Objective Lens
- EQ3-2 Deluxe Equatorial Mount • Built-in Polar Alignment Scope Holder
- Aluminium Tripod with Accessory Tray • 38% more Light Gathering than 102mm



Evostar-120 (EQ5)  
Product Code 10939/20464

## EVOSTAR-120 (EQ5) 120mm (4.75") f/8.3 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x40 & x100 • Objective Lens Diameter: 120mm
- Highest Practical Power (Potential): x240 • Telescope Focal Length: 1000mm (f/8.33)
- Direct SLR Camera Connection • Eyepieces Supplied (1.25"): 10mm & 25mm
- 9x50 Finderscope • Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal
- Multi-Coated Objective Lens • EQ5 Deluxe Heavy-Duty Equatorial Mount
- Built-in Polar Alignment Scope Holder
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- 38% more Light Gathering than 102mm

PICTURES TAKEN THROUGH EVOSTAR-120 EQ5  
IMAGE COURTESY OF PETER ROTH, CANADA



WARNING: SPECIALIST SAFETY FILTERING SHOULD ALWAYS BE USED WHEN VIEWING THE SUN

## EVOSTAR-120 (OTA)

### 120mm (4.75") f/8.3 ACHROMATIC REFRACTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 2" Star Diagonal, Tube Rings, 9x50 Finderscope, and Dovetail Mounting Bar. *Product Code 10939*

## EVOSTAR-120 (EQ5 PRO)

### 120mm (4.75") f/8.3 COMPUTERISED GO-TO REFRACTOR TELESCOPE

- Magnifications (with eyepieces supplied): x40 & x100
- Highest Practical Power (Potential): x240
- Objective Lens Diameter: 120mm • Telescope Focal Length: 1000mm (f/8.33)
- Eyepieces Supplied (1.25"): 10mm & 26mm • Direct SLR Camera Connection
- 9x50 Finderscope • Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal
- Built-in Polar Alignment Scope • Multi-Coated Objective Lens
- EQ5 PRO SynScan™ Heavy-Duty Computerised GOTO Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- 38% more Light Gathering than 102mm

Precision  
Computerised  
GO-TO  
Mount!!

Evostar-120 (EQ5 PRO)  
Product Code  
10939/20981

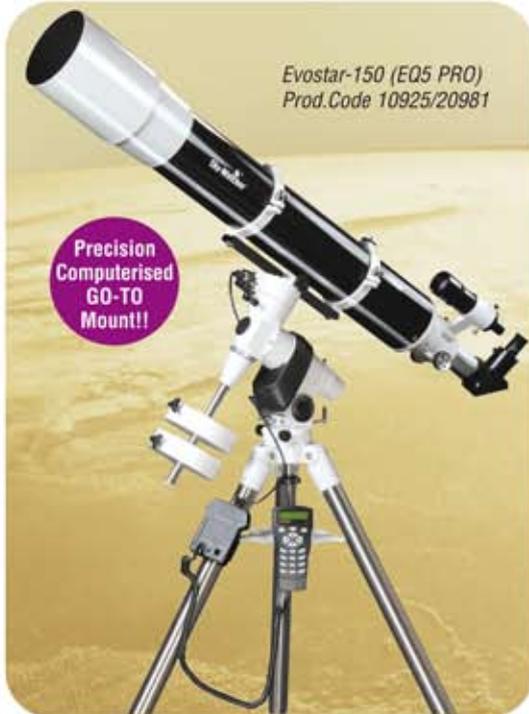
## EVOSTAR-150 (EQ5) 150mm (6") f/8 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x48 & x120
- Highest Practical Power (Potential): x300 • Objective Lens Diameter: 150mm
- Telescope Focal Length: 1200mm (f/8) • Eyepieces Supplied (1.25"): 10mm & 25mm
- Direct SLR Camera Connection • 9x50 Finderscope • Dual-Fit 1.25"/2" Focuser
- 2"/50.8mm Star Diagonal • Multi-Coated Objective Lens
- EQ5 Deluxe Heavy-Duty Equatorial Mount • Built-in Polar Alignment Scope Holder
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray • 56% more Light Gathering than 120mm



## EVOSTAR-150 (OTA) 150mm (6") f/8 ACHROMATIC REFRACTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 2" Star Diagonal, 9x50 Finderscope, Tube Rings and Dovetail Mounting Bar.  
Product Code 10925



## EVOSTAR-150 (EQ5 PRO)

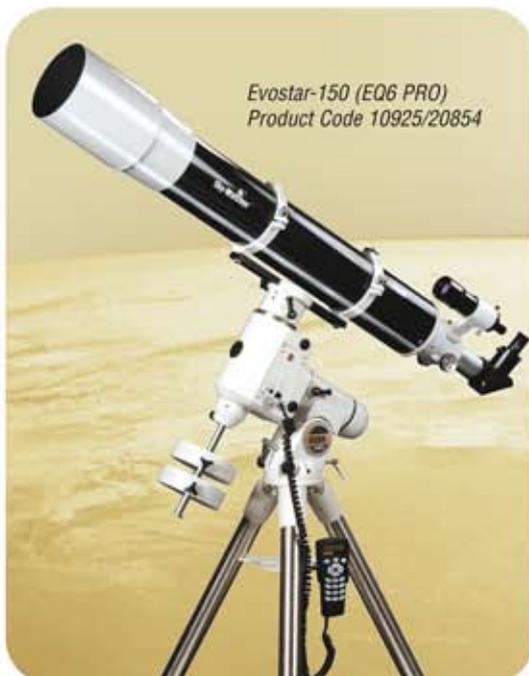
### 150mm (6") f/8 COMPUTERISED GO-TO ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x48 & x120 • Highest Practical Power (Potential): x300
- Objective Lens Diameter: 150mm • Telescope Focal Length: 1200mm (f/8)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Direct SLR Camera Connection • 9x50 Finderscope
- Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal • Multi-Coated Objective Lens
- EQ5 PRO SynScan™ Heavy-Duty Computerised GO-TO Equatorial Mount (Requires 12 volt DC Power Supply) • Built-in Polar Alignment Scope
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray • 56% more Light Gathering than 120mm
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues

## EVOSTAR-150 (HEQ5 PRO)

### 150mm (6") f/8 COMPUTERISED GO-TO ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x48 & x120
- Highest Practical Power (Potential): x300 • Objective Lens Diameter: 150mm
- Telescope Focal Length: 1200mm (f/8) • Eyepiece Supplied (1.25"): 10mm & 25mm
- Direct SLR Camera Connection • 9x50 Finderscope • Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal
- HEQ5 PRO SynScan™ Super Heavy-Duty Computerised GO-TO Equatorial Mount (Requires 12 volt DC Power Supply)
- Multi-Coated Objective Lens • Built-in Dual-Axis Stepper Motors • Built-in Polar Alignment Scope
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray • 56% more Light Gathering than 120mm



## EVOSTAR-150 (EQ6 PRO)

### 150mm (6") f/8 COMPUTERISED GO-TO ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x48 & x120 • Highest Practical Power (Potential): x300
- Objective Lens Diameter: 150mm • Telescope Focal Length: 1200mm (f/8)
- Eyepiece Supplied (1.25"): 10mm & 25mm • Direct SLR Camera Connection • 9x50 Finderscope
- Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal
- EQ6 PRO SynScan™ Deluxe Super Heavy-Duty Computerised GO-TO Equatorial Mount (Requires 12 volt DC Power Supply) • Multi-Coated Objective Lens
- Built-in Dual-Axis Stepper Motors • Built-in Polar Alignment Scope
- 2" Stainless Steel Pipe Tripod with Accessory Tray • 56% more Light Gathering than 120mm

## EVOSTAR DS-PRO SERIES DUAL-SPEED ED APOCHROMATIC REFRACTORS

The EVOSTAR DS-PRO Series refractors house optics of the highest quality. These high-end telescopes all feature a doublet objective lens. One element is made from premium Japanese Ohara FPL-53 Extra-Low Dispersion (ED) glass, which virtually eliminates chromatic aberration to deliver true colour reproduction. Top quality Schott glass is utilised for the Crown element. Each objective lens is finished by hand by skilled opticians and the quality of each telescope is monitored by means of a Ronchi test and an artificial star test (See page 22). No effort is spared to reach optimal optical quality. Sky-Watcher is a World-Leader in the manufacturing and design of Premium ED-Apochromatic Refractors. They provide extremely high levels of performance for both imaging and visual astronomy. Apochromatic Refractors, due to their unobstructed, text-book like diffraction patterns, produce the sharpest, highest quality optical imaging available, bar-none, aperture for aperture, of any telescope optical system.

### World Exclusive Co-Branding Agreement with Schott

Selected high-end Sky-Watcher telescopes benefit from the inclusion of Schott glass in their construction. Schott is the recognised world leader in glass utilised for precision optical lens systems, including medical instrumentation and famous brand camera lenses.



### Metallic High-Transmission Lens Coatings

Each air-to-glass lens surface has exotic anti-reflection metallic coatings applied to ensure optimum light throughput approaching 99.5%. The proprietary Sky-Watcher 'Metallic High-Transmission Coatings' (MHC) are the finest photon anti-rejection coatings in their class.

**EVOSTAR DS-PRO ED APOCHROMATIC REFRACTORS** "The discerning observer and astrophotographer will appreciate the near-perfect optical correction provided by the EVOSTAR DS-PRO series. Not only do these instruments look stunning in their black-diamond livery, but their objectives composed of Japanese FPL-53 ED and Schott crown glass will deliver image quality to match." **Ade Ashford, www.scopetest.com**

### EVOSTAR-80ED DS-PRO (OTA) 80mm (3.1") f/7.5 ED APOCHROMATIC REFRACTOR

- Magnification with Eyepiece Supplied: x21 • Highest Practical Power (Potential): x240
- Objective Lens Diameter: 80mm • Telescope Focal Length: 600mm (f/7.5)
- Eyepiece Supplied (2"): 28mm LET • 2"/50.8mm Di-Electric Star Diagonal
- 9x50 Finderscope • Dual-Speed 10:1 2" Crayford Focuser (Backlash-Free)
- MHC Multi-Coated Objective Lens • Supplied with Tube Rings & Mounting Plate
- Aluminium Carrying Case • Minimum Recommended Mounting: EQ3-2/EQ3 PRO

"Great all-round package...Overall this telescope packs a lot of punch... a complete setup with lovely crisp optics" **BBC Sky At Night Magazine**

ED OPTICS

Product Code 10202



### EVOSTAR-100ED DS-PRO (OTA) 100mm (4") f/9 ED APOCHROMATIC REFRACTOR

- Magnification with Eyepiece Supplied: x32
- Highest Practical Power (Potential): x300
- Objective Lens Diameter: 100mm
- Telescope Focal Length: 900mm (f/9)
- Eyepiece Supplied (2"): 28mm LET
- 2"/50.8mm Di-Electric Star Diagonal
- 9x50 Finderscope • Dual-Speed 10:1 2" Crayford Focuser (Backlash-Free)
- MHC Multi-Coated Objective Lens • Aluminium Carrying Case
- Supplied with Tube Rings & Mounting Plate
- Minimum Recommended Mounting: EQ5/EQ5 PRO

"I am immensely impressed with this telescope"  
**Sir Patrick Moore CBE FRS**  
(on Evostar-100ED, previous single-speed version)

ED OPTICS

Product Code 10203



Awarded to Evostar-100ED (previous single-speed version) Group test: 4-inch Apochromatic Refractors under £3000



### EVOSTAR-120ED DS-PRO (OTA) 120mm (4.75") f/7.5 ED APOCHROMATIC REFRACTOR

- Magnification with Eyepiece Supplied: x32
- Highest Practical Power (Potential): x360
- Objective Lens Diameter: 120mm
- Telescope Focal Length: 900mm (f/9)
- Eyepiece Supplied (2"): 28mm LET
- 2"/50.8mm Di-Electric Star Diagonal • 9x50 Finderscope
- Dual-Speed 10:1 2" Crayford Focuser (Backlash-Free)
- MHC Multi-Coated Objective Lens
- Supplied with Tube Rings & Mounting Plate
- Aluminium Carrying Case
- Minimum Recommended Mounting: EQ5/EQ5 PRO

ED OPTICS

Product Code 10204



### 0.85x FOCAL REDUCER/CORRECTOR for EVOSTAR-80/100/120ED DS-PRO

Designed for serious Astro-Imagers. Each model is optimised for the corresponding model in the Evostar-ED DS-PRO series. They effectively reduce the telescope's focal length by a factor of 0.85x and provide much improved field-edge correction. Use in conjunction with Sky-watcher's M48 Canon or Nikon T-ring adaptors shown right.



- 0.85x Focal Reducer/Corrector for Evostar-80ED DS-PRO Prod.Code 20236
- 0.85x Focal Reducer/Corrector for Evostar-100ED DS-PRO Prod.Code 20235
- 0.85x Focal Reducer/Corrector for Evostar-120ED DS-PRO Prod.Code 20234

### CANON/NIKON M48x0.75 ADAPTORS

Designed for attaching Canon or Nikon DSLR cameras to any of the Sky-Watcher 0.85x Focal Reducer/Correctors shown left.



- CANON M48x0.75 Adaptor Prod.Code 20237
- NIKON M48x0.75 Adaptor Prod.Code 20238

## EQUINOX™ DUAL-SPEED ED APOCHROMATIC REFRACTORS

Sky-Watcher's EQUINOX SERIES contains the same first-class optics as used in the Evostar DS-PRO refractors, but housed in precision CNC machined and hard-anodised tube assemblies. They feature rotatable, tension-adjustable dual-speed focusers and retractable dewshields. They are exceptional high-performance instruments for visual use, as well as astrophotography and CCD imaging. The 80mm model also provides outstanding results for birdwatching and general terrestrial use.

### EQUINOX ED APOCHROMATIC REFRACTORS

*"It's not easy making a range of telescopes that will satisfy the requirements of birdwatchers, astro-imagers and those seeking the finest visual lunar and planetary images in a single instrument, but Sky-Watcher's EQUINOX range of refractors comes close. The attention to detail, premium optical quality and high standard of engineering embodied in these instruments makes them particularly appealing to serious CCD imagers and DSLR users."* Ade Ashford, [www.scopetest.com](http://www.scopetest.com)

### EQUINOX-80 PRO OTA 80mm (3.1") f/6.25 ED APOCHROMATIC REFRACTOR

- Highest Practical Power (Potential): x240
- Objective Lens Diameter: 80mm
- Telescope Focal Length: 500mm (f/6.25)
- Supplied without Eyepieces, Finder & Star Diagonal
- Dual-Speed 11:1 Backlash-Free 2" Crayford Focuser with adjustable focus-tension & 360 Rotatable
- 2" to 1.25" Eyepiece adaptor (with Brass Compression Rings)
- Retractable Dewshield (with aluminium cap)
- MHC Multi-Coated Objective Lens (One element FPL-53 Glass)
- Standard 1/4-20 Tripod Bush (will accept Sky-Watcher dovetail bars)
- Foam-lined Aluminium Carrying/Storage case
- Minimum recommended mounting: EQ3-2/EQ3 PRO



**EQUINOX-80 ED PRO** *"We took five, two-minute exposures of the Pleiades & Andromeda galaxy which were then stacked and image-enhanced using K3CCD tools. They gave a tremendous amount of detail – in fact they were the best images of these objects I have ever taken... "The view was pin-sharp across 85 percent with the 20mm lens and there was no apparent colour fringing at all around the stars"... Overall the refractor performed well on all tasks. It would make a top quality addition to any astronomer's scope collection!"* BBC Sky at Night Magazine

### EQUINOX-120 PRO OTA 120mm (4.75") f/7.5 ED APOCHROMATIC REFRACTOR

- Highest Practical Power (Potential): x360
- Objective Lens Diameter: 120mm
- Telescope Focal Length: 900mm (f/7.5)
- Supplied without Eyepieces, Finderscope and Star Diagonal
- Dual-Speed 11:1 Backlash-Free 2" Crayford Focuser with adjustable focus-tension & 360 Rotatable
- 2" to 1.25" Eyepiece adaptor (with Brass Compression Rings)
- Retractable Dewshield (with aluminium cap)
- MHC Multi-Coated Objective Lens (One element FPL-53 Glass)
- Supplied with tube rings and Sky-Watcher dovetail mounting plate
- Foam-lined Aluminium Carrying/Storage case
- Minimum recommended mounting: EQ5/EQ5 PRO



*"Vega, almost overhead, showed the Equinox's optical correction to be essentially perfect. Our views of the Double Double were the best we have ever seen, with clear separation between each close pair. We couldn't have asked for more. With the best focuser of the four, a beautiful tube and essentially flawless optics, we found the it's performance simply stunning."* BBC Sky At Night Magazine

### DUAL-SPEED 11:1 CRAYFORD FOCUSER

This premium focuser is truly a delight to use and is a perfect match for these first-class telescopes. With excellent efficiency, it provides an exceptionally smooth 2-speed focusing operation with the utmost precision. Its fine-focusing facility is perfect for focusing accurately during Astrophotography. A graduated scale is marked on the drawtube for fast and precise focusing with CCD or DSLR cameras. The focuser is 360° Rotatable for easy framing of objects for Photography.



## ESPRIT ED PROFESSIONAL – SUPER APO TRIPLET REFRACTORS

Sky-Watcher Professional ESPRIT 3-Element ED Apochromatic Refractors are instruments of the highest quality with optical performance rivalling or exceeding similar telescopes of even the most famous high-end telescope brands. The ESPRIT Super Apo Triplets are designed for the most demanding astro-imagers, but are also fine telescopes for visual observations. The premium, superbly-corrected optical systems deliver high-contrast images full of detail and zero detectable colour fringing, even on the brightest of objects.

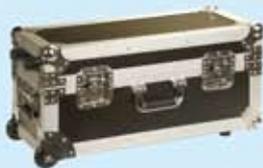


### MAIN FEATURES:

- 3-Element Objective Lens, including one Ohara FPL-53 ED element
- Rotatable, High Load Capacity CNC Machined 11:1 Dual-Speed Linear Power Focuser, with indexed scale.
- Zero detectable Colour Fringing even on Bright Objects • Metallic High-Transmission Lens Coatings
- Knife-edge Baffled Optical Systems • High-precision Mechanical Components
- Aluminium OTA material (superior to plain carbon-fibre for this application)

### ESPRIT-80ED PROFESSIONAL f/5 SUPER APO TRIPLET REFRACTOR

- Objective Lens Diameter: 80mm (f/5) • Telescope Focal Length: 400mm • 2" (50.8mm) Di-Electric Star Diagonal with 1.25" Adaptor
- 9x50 Right Angled, Erect Image Finderscope • 2.7" Dual-Speed Linear Power Focuser • 45mm Dovetail Bar • Fixed Dew Shield
- 33mm Image Circle (with flattener) • Heavy Duty Foam-Lined Storage/Transportation Case with Wheels • Tube Weight: 3.97kg (without accessories)



Heavy Duty Case supplied with Esprit-80ED



Field Flattener for Esprit-80ED (M48x0.75)  
Product Code 20187



### ESPRIT-100ED PROFESSIONAL f/5.5 SUPER APO TRIPLET REFRACTOR

- Objective Lens Diameter: 100mm • Telescope Focal Length: 550mm (f/5.5) • 2" (50.8mm) Di-Electric Star Diagonal with 1.25" Adaptor
- 9x50 Right Angled, Erect Image Finderscope • 3" Dual-Speed Linear Power Focuser • Tube Rings • 75mm Dovetail Mounting Plate • Retractable Dew Shield
- 40mm Image Circle (with flattener) • Heavy Duty Foam-Lined Storage/Transportation Case with Wheels • Tube Weight: 6.3kg (without accessories)



Heavy Duty Case supplied with Esprit-100ED



Field Flattener for Esprit-100ED (M48x0.75)  
Product Code 20188



## ESPRIT-120ED PROFESSIONAL f/7 SUPER APO TRIPLET REFRACTOR

- Objective Lens Diameter: 120mm
- Telescope Focal Length: 840mm (f/7)
- 2" (50.8mm) Di-Electric Star Diagonal with 1.25" Adaptor
- 9x50 Right Angled, Erect Image Finderscope
- 3" Dual-Speed Linear Power Focuser
- Tube Rings • 75mm Dovetail Mounting Plate
- Retractable Dew Shield
- 44mm Image Circle (with flattener)
- Aluminium Foam-Lined Carrying Case
- Tube Weight: 9.6kg (without accessories)



Field Flattener for Esprit-120ED (M48x0.75) Product Code 20189



"The Esprit-120 really performed....I compared its performance with high-end Officina Stellare and Astro-Physics 105mm and 130mm apos employing similar premium glass. Even at high magnification with a 3mm eyepiece, star images appeared just as sharp, aberration-free and colourless as the best. I was impressed. On subzero (°C) nights once the telescope cooled down (after 30 to 45 minutes), it exhibited none of the aberration oddities I've seen in some test telescopes, effects created by cold temperatures pinching optics. This is evidence of the Esprit's excellent lens cell design, the area where aspiring apos sometimes fall short. ....With the field flattener, even when using a DSLR camera with a full frame (24mm x 36mm) sensor, star images were absolutely pinpoint corner to corner, free of any coma, astigmatism or lateral colour dispersion. This matched or surpassed the effectiveness of other telescope/field flattener combinations I've used. In short, the Esprit provided first-class optical performance visually and photographically....the Esprit-120's performance matches the best in the business at a competitive price....Sky-Watcher's Esprit refractors become very attractive options for anyone looking for the best" *SkyNews Magazine Review by Alan Dyer*



### STARLIGHT INSTRUMENTS 3.0" FEATHERTOUCH® RACK & PINION FOCUSER

**When only the best will do!** A direct upgrade to the standard focuser supplied with the Sky-Watcher Esprit-120 and Esprit-150 Super Apo Triplet Refractors. Specification: 3.5" Draw tube travel, Resistance Brake, Integral TFPE Coupled Rotational Collar, and 2.0" Diameter Compression Ring, Custom coupling adaptor for Esprit-120/150 OTA's, 3" M65 End Cap for Esprit Field Flatteners. Product Code 20298

## ESPRIT-150ED PROFESSIONAL f/7 SUPER APO TRIPLET REFRACTOR

- Objective Lens Diameter: 150mm • Telescope Focal Length: 1050mm (f/7) • 2" (50.8mm) Di-Electric Star Diagonal with 1.25" Adaptor
- 9x50 Right Angled, Erect Image Finderscope • 3" Dual-Speed Linear Power Focuser • Tube Rings • 75mm Dovetail Mounting Plate • Retractable Dew Shield
- 44mm Image Circle (with flattener) • Aluminium Foam-Lined Carrying Case • Tube Weight: 14.5kg (without accessories)

"Using the Skywatcher Esprit-150ED for astrophotography is an absolute pleasure....the very first photograph that came from it was enough to convince me that it should find a permanent place in my observatory.... Using the matching flattener the stars are nice and round right to the edges of even a full frame format camera. Images of galaxies are superb, with crisp dust lanes and fine detail, and emission nebulae are brought to life with sharp cloud formations full of depth and contrast...Used with an eyepiece the telescope is equally capable, and the views of Saturn, Jupiter and star clusters have been breathtaking."

**Tim Jardine, Award Winning Astrophotographer**



Field Flattener for Esprit-150ED (M48x0.75) Product Code 20190



"Star images were excellent across the full width of the sensor, which is very impressive considering the large field-of-view, while star colours were recorded very well, showing that the 150ED is a great telescope for use with large-sensor DSLR cameras....offers strong competition to the established refractors from Takahashi and TEC. The optics feature a high level of correction across the field and star images through all filters were tight and consistent thanks to its superb colour correction."

**Astronomy Now Magazine Review by Nik Szymanek**

### Metallic High-Transmission Lens Coatings

Each air-to-glass lens surface has exotic anti-reflection metallic coatings applied to ensure optimum light through-put of approaching 99.5%. The proprietary Sky-Watcher "Metallic High-Transmission Coatings" (MHC) are the finest photon anti-rejection coatings in their class.

## AZ3 ALT-AZIMUTH MOUNT & TRIPOD

Spotting users love the precision control and rock steadiness of this high quality alt-azimuth mount with adjustable aluminium tripod and large accessory tray. It features two flexible slow-motion cables, one for vertical and one for horizontal control. Accurately tracks distant moving objects with ease. This mounting is ideal for terrestrial observations but can also be used for astronomical viewing.

## TRIPOD ADAPTOR PLATE FOR AZ3

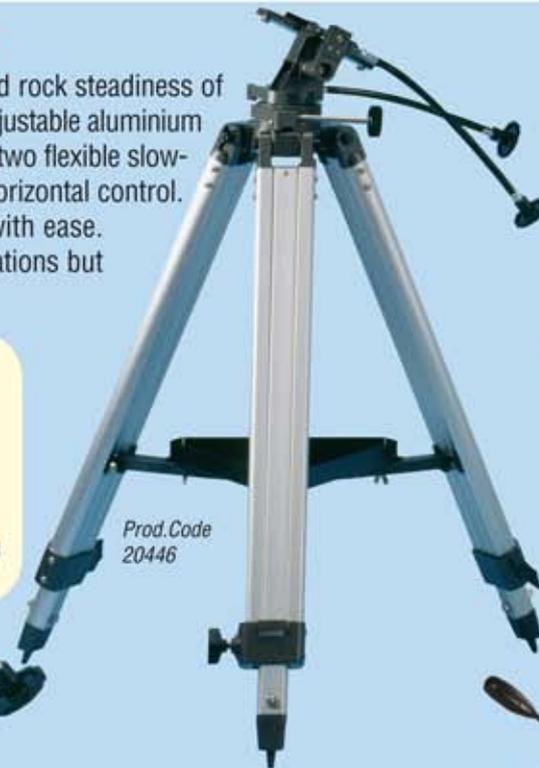
1/4-20 Adaptor Plate to allow the attachment of equipment via a standard tripod bush.



Prod.Code 20999



Close-up of AZ3 Mount Head



Prod.Code 20446

## AZ4 HEAVY-DUTY ALT-AZIMUTH MOUNT & TRIPOD

The Sky-Watcher AZ4 Alt-Azimuth mount is extremely popular with astronomers and terrestrial observers alike. The design features separate friction clutches on both the Altitude and Azimuth axes and a panning arm, which can be fixed in two separate positions. The movements are buttery-smooth and telescopes can be manipulated with effortless precision. Telescope OTA's attach to the mount via a standard Sky-Watcher 45mm dovetail bar. Also supplied with this mount is an L-bracket which allows the easy attachment of a spotting scope or camera. Maximum recommended payload: Sky-Watcher D150/F1200 Reflector Explorer-150PL.

### Available in two versions:

- 1) With lightweight aluminium legs for optimum portability (AZ4-1).
- 2) With 1.75" stainless steel legs for maximum strength and stability (AZ4-2).



AZ4-1  
(With Aluminium Tripod Legs)  
Prod.Code 20217



Close-up of AZ4 Mount Head

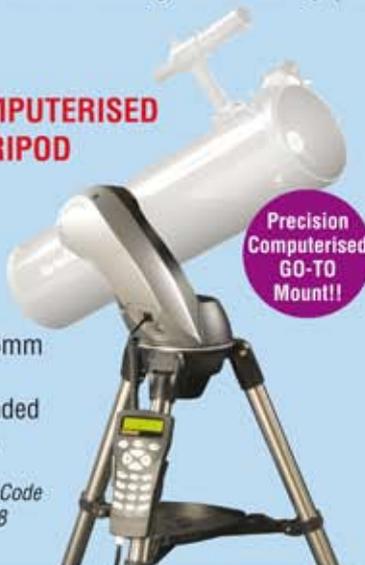


AZ4-2 (With 1.75" Stainless Steel Tripod Legs)  
Prod.Code 20216

## SYNSCAN™ AZ GO-TO COMPUTERISED ALT-AZIMUTH MOUNT & TRIPOD

Finds celestial objects and automatically tracks them. Multi-speed slewing via handset commands. 42,900+ Objects in SynScan™ computer database. Accepts standard Sky-Watcher 45mm dovetail bars. Maximum payload approx 4kg. Maximum recommended Sky-Watcher OTA: Startravel-102, Explorer-130P, Skymax-127.

Prod.Code 20218



Precision Computerised GO-TO Mount!!

## TUBE MOUNTING RINGS

These quality cast aluminium rings are available in the following internal diameters: 90mm, 102mm, 120mm, 140mm, 160mm, 182mm, 236mm, 285mm & 357mm. They are felt-lined and hinged for easy installation of the telescope. By loosening the thumbscrews, the telescope can be easily balanced and rotated.



| Prod. Code  |
|-------------|-------------|-------------|-------------|-------------|
| 90mm 20410  | 102mm 20411 | 120mm 20413 | 140mm 20412 | 160mm 20835 |
| 182mm 20527 | 236mm 20416 | 285mm 20900 | 357mm 20901 |             |

## MERLIN SYNSCAN™ AZ GO-TO COMPUTERISED TABLETOP ALT-AZIMUTH MOUNT

The Sky-Watcher Merlin is quick and convenient to set-up on a patio or picnic table and ideal for travelling with, due its compact size. Finds celestial objects and automatically tracks them. Multi-speed slewing via handset commands. 42,900+ Objects in SynScan™ computer database. Accepts standard Sky-Watcher 45mm dovetail bars. Also spotting scopes can be attached via their tripod adaptor bush and mounted on the supplied L-Bracket. Power Requirement: 12v DC Power Supply (Tip Positive) or AA Batteries (not supplied). Sky-Watcher 7Ah or 17Ah Power Tank Recommended.



## SKYTEE-2

### HEAVY DUTY DUAL-LOAD ALT-AZIMUTH MOUNT & TRIPOD

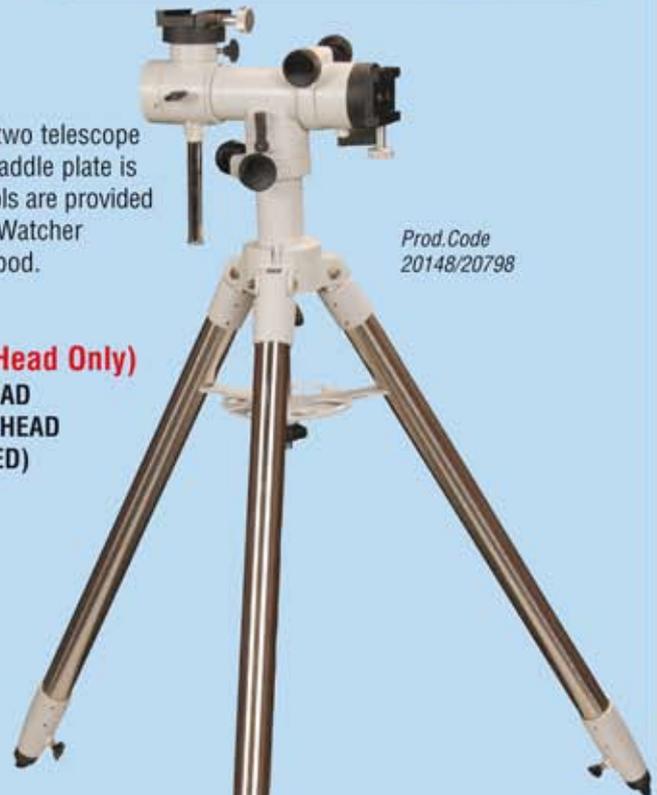
The SKYTEE-2 is a heavy duty alt-azimuth mount capable of holding two telescope tubes of up to 15Kg each in parallel. A Sky-Watcher 45mm dovetail saddle plate is included on each side of the mount. Precise manual slow motion controls are provided on each axis. A counterweight bar is also included that accepts Sky-Watcher counterweights. Supplied with a Sky-Watcher 1.75" stainless steel tripod.



### SKYTEE-2 (Mount Head Only) HEAVY-DUTY DUAL-LOAD ALT-AZIMUTH MOUNT HEAD (TRIPOD NOT INCLUDED)

Compatible with the Sky-Watcher 1.75" stainless steel tripod supplied with the EQ5 and HEQ5 Equatorial mounts.

Prod.Code 20148



Camera Not Included



## ALLVIEW™

### MULTI-FUNCTION COMPUTERISED MOUNT

The Sky-Watcher Allview™ can be used as a Go-To mount for Astronomy, a mount for Terrestrial 360° Panoramic or Still Time Lapse photography, Video Capture, or simply a stable motorised platform for mounting a spotting scope or binoculars. Please see page 67 for full details.

- Mount type: Alt-Azimuth with Freedom-Find™ dual-encoder technology
- Overall weight with tripod: 9.5kg
- Payload capacity: 5kg • Motor type: DC Servo Motors • Tracking Mode: Dual-Axis
- Quick release clutches for manual override
- Handset: Backlit LCD Screen, two-line 16 character display
- Multi-Function L-type mounting bracket • Accepts Standard 45mm Dovetail bars
- Bluetooth-to-serial adaptor compatible, for wireless control via PC
- Tripod supplied: stainless steel (extendable)
- Allview™ head can be detached and fitted to most Prosumer tripods via 3/8" thread
- Tracking Rates: Sidereal, Lunar & Solar • Alignment Method: Brightest Star & Two-star
- Slew Speeds: 1x, 2x, 8x, 16x, 32x, 200x, 400x, 600x, 800x & 1000x
- Go-to Pointing Accuracy: Up to 5 arc minutes, with Pointing Accuracy Enhancement Function (PAE)
- Synscan™ Handset Database: 42,900+ objects including complete Solar System, M, NGC, IC & SAO catalogues
- Power requirement: 8V to 15V DC 1Amp (Tip positive). Sky-Watcher power tank recommended or 10 x AA alkaline batteries (not supplied)

## STAR ADVENTURER ASTRO-IMAGING MOUNT WITH ST4 AUTOGUIDER INTERFACE

The user-friendly Sky-Watcher Star Adventurer provides various combinations to satisfy all your needs for astrophotography and time-lapse photography. It is a high precision, portable and stable celestial tracking platform for Sidereal, Solar and Lunar tracking with automatic DSLR shutter release control. Moreover, it contains pre-programmed parameters assisting you to create interesting time-lapse videos with your DSLR. Sky-Watcher shutter release cables can be purchased separately for most popular camera models/brands (see page 67).



**Star Adventurer Photo Set:** includes the Star Adventurer Mount, Adaptor for Ball Head and Illuminated Polar Scope. *Prod.Code 50201*

**Star Adventurer Astro-Photo Bundle:** includes the Star Adventurer Mount, Adaptor for Ball Head, Illuminated Polar Scope, Dovetail L-Bracket, Equatorial Wedge and Counterweight Shaft with 1kg Counterweight.

*Prod.Code 50201/50202/50203/50204*



### PRODUCT FEATURES: (PLEASE NOTE: PRODUCT COLOUR MAY VARY)

- Multiple pre-programmed speeds for time lapse photography
- Tracking rate selectable between Sidereal, Solar and Lunar
- Built in polar scope with illuminator
- DSLR interface for automatic electronic shutter control
- Built-in ST4 auto-guiding interface for R.A. auto-guiding
- Low power consumption
- External Mini USB power support
- Compatible with 3/8" and 1/4" camera tripod threads
- Free firmware upgrades
- Payload Capacity 5kg (11 lb)
- Mount Type Ultra compact equatorial tracking platform
- Motor Drive DC Servo
- Power Supply 4xAA batteries: DC 3.6V-6.5V; External power supply DC 5V
- Tracking Modes Sidereal, Solar or Lunar tracking rate for both North & South hemispheres.
- Time-lapse photography: 12hr/4hr/2hr rev.
- Weight (mount only): 1kg



*Equatorial Wedge  
Prod.Code 50202*



*Dovetail L-Bracket  
Prod.Code 50203*



*Counterweight Shaft with  
1kg Counterweight  
Prod.Code 50204*



*Fotomate  
H-28QR  
Ball Head  
Prod.Code 50408*

### STAR ADVENTURER FUNCTIONALITY

The Star Adventurer can attach to any standard tripod via its 1/4" or 3/8" adaptors. The latitude can be set by either adjusting the tilt of your tripod head to match your latitude or more accurately by purchasing the optional Equatorial Wedge (*Prod.Code 50202*).

To fit a camera, either the optional Ball Head (*Prod.Code 50408*) is required or the optional Dovetail L-Bracket (*Prod.Code 50203*).

The optional Dovetail L-Bracket used in conjunction with the optional counterweight shaft/counterweight (*Prod.Code 50204*) also allows small telescopes (e.g. Skymax-90), with a 1/4-20 tripod fitting, to be used with the Star Adventurer.

A small telescope and camera (using a ball head, not supplied) can be mounted simultaneously on the Dovetail L-Bracket. Using just the dovetail bar from the optional Dovetail L-Bracket, two cameras can be mounted at the same time using two optional ball heads.



Star Adventurer with small telescope and camera fitted using an optional ball head and optional Dovetail L-Bracket



Star Adventurer with DSLR camera fitted using optional Dovetail L-Bracket

*Camera & Telescope  
not included*



Star Adventurer with small telescope fitted using optional Dovetail L-Bracket and optional Counterweight/Shaft

## SLOW MOTION CONTROL CABLE SETS



**EQ2 CABLE SET** (29cm/33cm) - Product Code 20485



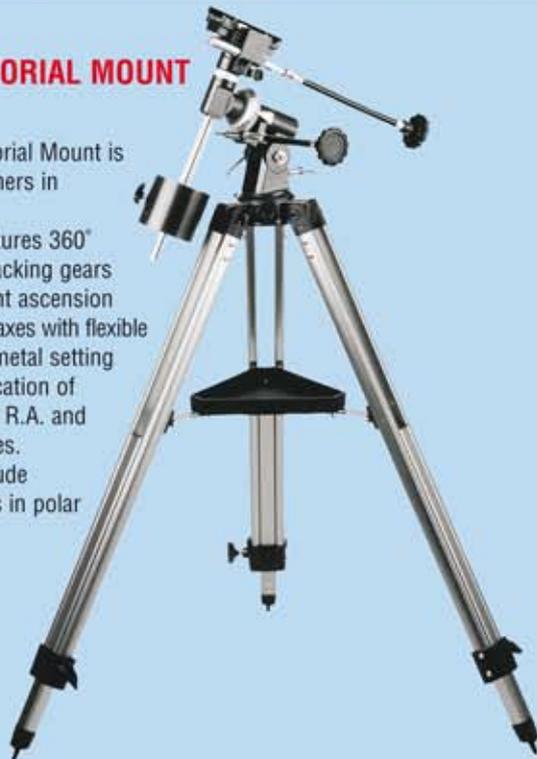
**EQ3-2 CABLE SET** (13cm/19cm) - Product Code 20483

Note: Both of the above cable sets will fit the EQ2, EQ3-2, EQ5 and AZ3 mounts

## EQ1 EQUATORIAL MOUNT & TRIPOD

The EQ1 Equatorial Mount is suited to beginners in astronomy. This mount features 360° slow-motion tracking gears on both the right ascension and declination axes with flexible controls. Dual metal setting circles allow location of objects by their R.A. and DEC. coordinates. A separate latitude adjustment aids in polar alignment.

**Not Available Separately**



### R.A. ECONOMY MOTOR DRIVE FOR EQ1

Can be fitted to any of our telescopes supplied with the EQ1 equatorial mount, Provides single-speed (1x Sidereal) motor tracking of the R.A. Axis. Battery Powered. (Prod.Code 20449)



### R.A. MOTOR DRIVE FOR EQ1 (with Multi-Speed Handset)

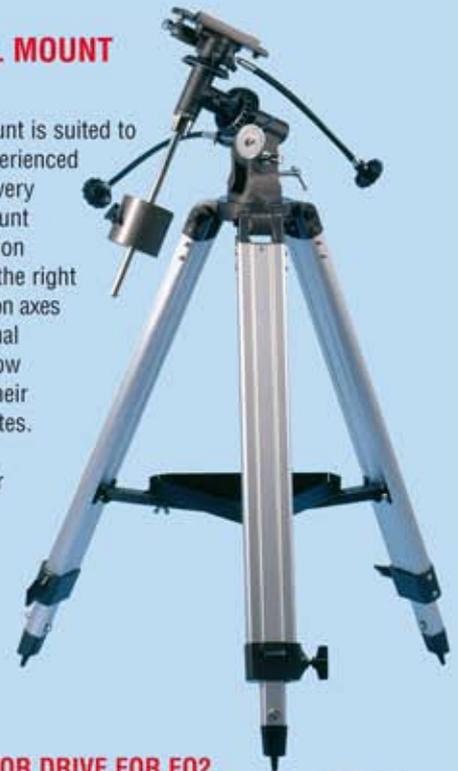
Can be fitted to any of our telescopes supplied with the EQ1 equatorial mount, Provides multi-speed (1x/2x/4x) motor tracking of the R.A. Axis. Battery Powered. (Prod.Code 20955)



## EQ2 EQUATORIAL MOUNT & TRIPOD

The EQ2 Equatorial Mount is suited to both beginners and experienced astronomers, offering very good stability. This mount features 360° slow-motion tracking gears on both the right ascension and declination axes with flexible controls. Dual metal setting circles allow location of objects by their R.A. and DEC. coordinates. A separate latitude adjustment aids in polar alignment.

Prod.Code 20447



### R.A. ECONOMY MOTOR DRIVE FOR EQ2

Can be fitted to any of our telescopes supplied with the EQ2 equatorial mount, Provides single-speed (1x Sidereal) motor tracking of the R.A. Axis. Battery Powered. (Prod.Code 20998)



### R.A. MOTOR DRIVE FOR EQ2 (with Multi-Speed Handset)

Can be fitted to any of our telescopes supplied with the EQ2 equatorial mount, Provides multi-speed (1x/2x/4x) motor tracking of the R.A. Axis. Battery Powered. (Prod.Code 20407)



## SKY-WATCHER 45mm EQUATORIAL MOUNTING PLATES

Compatible with Sky-Watcher EQ3-2, EQ5, AZ-EQ5GT, HEQ5, EQ6 & AZ-EQ6GT Mounts and drilled to accept Sky-Watcher tube rings.

- A) Long 33.5cm Dovetail Bar (Product Code: 20759)
- B) Medium 21cm Dovetail Bar (Product Code: 20758)
- C) Short 15cm Mounting Plate (Product Code: 20549)

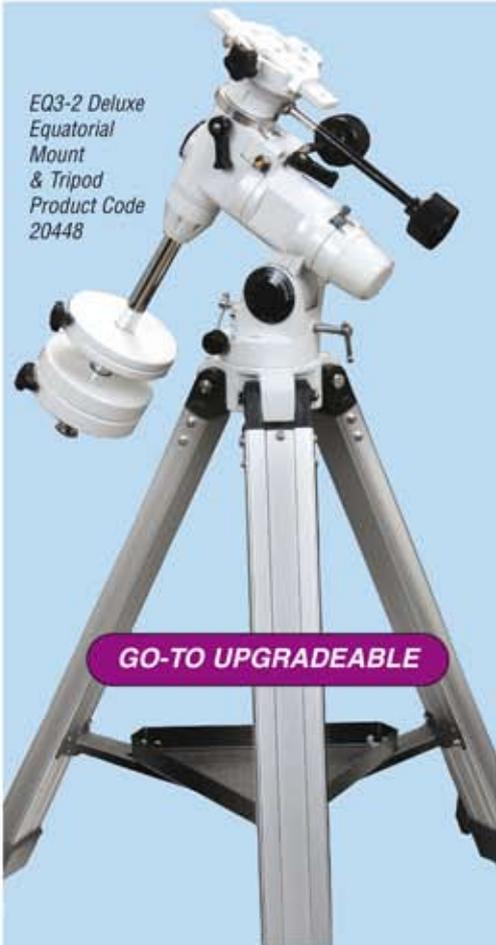


## MULTI-FUNCTION MOUNT PLATE

Accepts Sky-Watcher tube rings and allows small telescopes to be connected to a photographic tripod via a standard 1/4-20 tripod bush Prod.Code 20459



EQ3-2 Deluxe  
Equatorial  
Mount  
& Tripod  
Product Code  
20448



**GO-TO UPGRADEABLE**

## EQ3-2 DELUXE EQUATORIAL MOUNT & TRIPOD

The superb EQ3-2 mount receives high marks from experienced observers. This sturdy mount offers precision and stability for the serious astronomer. A bubble level allows for quick and accurate levelling. Slow-motion control knobs allow for continuous manual tracking of celestial objects. The precision mount features full 360° worm-gear tracking controls on both R.A. and DEC. axes. Dual metal setting circle dials allow quick location of targets. An optional polarscope is available for aiding in polar alignment. Supplied with aluminium tripod. Maximum payload approx. 6.5kg.

### R.A. MOTOR DRIVE FOR EQ3-2 (with Multi-Speed Handset)

Can be fitted to any of our telescopes supplied with the EQ3-2 equatorial mount, Provides multi-speed (1x/2x/8x) motor tracking of the R.A. Axis. Battery Powered.



Prod.Code 20362

### DUAL-AXIS MOTOR DRIVE FOR EQ3-2 (with Multi-Speed Handset)

Can be fitted to any of our telescopes supplied with the EQ3-2 equatorial mount, Provides multi-speed (1x/2x/8x) motor tracking of the R.A. and DEC Axes. Battery Powered.



Prod.Code 20406

### ENHANCED DUAL-AXIS MOTOR DRIVE FOR EQ3-2 MOUNT (with Multi-Speed Handset and ST4 Auto-Guider Interface)

Supplied with Sky-Watcher's new enhanced dual-axis hand controller with ST4 interface for an Auto-Guider. Essential in long-exposure astrophotography as well as a useful accessory for visual astronomy. Features selectable Solar, Lunar and Sidereal tracking rates, plus additional selectable adjustment rates of 0.5x, 2x and 16x. Battery powered.



Prod.Code 20300

## EQ5 DELUXE HEAVY-DUTY EQUATORIAL MOUNT & TRIPOD

The very sturdy EQ5 Equatorial mount provides excellent precision and stability and a host of other useful features for the serious astronomer. The mount rests firmly on a large, adjustable stainless steel pipe tripod with accessory tray. Supplied complete with a bubble level, latitude adjuster with micrometer scale and an azimuth polar-alignment adjuster. It also features engraved aluminium setting circles and manual slow motion tracking controls. An optional polarscope is available for aiding in polar alignment. Supplied with 1.75" stainless steel tripod. Maximum payload approx. 9kg.

### R.A. MOTOR DRIVE FOR EQ5 (with Multi-Speed Handset)

Can be fitted to any of our telescopes supplied with the EQ5 equatorial mount. Provides multi-speed (1x/2x/8x) motor tracking of the R.A. Axis. Battery Powered.



Prod.Code  
20462

### DUAL-AXIS MOTOR DRIVE FOR EQ5 (with Multi-Speed Handset)

Can be fitted to any of our telescopes supplied with the EQ5 equatorial mount. Provides multi-speed (1x/2x/8x) motor tracking of the R.A. and DEC Axes. Battery Powered.



Prod.Code  
20463

### ENHANCED DUAL-AXIS MOTOR DRIVE FOR EQ5 MOUNT (with Multi-Speed Handset and ST4 Auto-Guider Interface)

Supplied with Sky-Watcher's new enhanced dual-axis hand controller with ST4 interface for an Auto-Guider. Essential in long-exposure astrophotography as well as a useful accessory for visual astronomy. Features selectable Solar, Lunar and Sidereal tracking rates, plus additional selectable adjustment rates of 0.5x, 2x and 16x. Battery powered.



Prod.Code 20301

EQ5 Deluxe  
Heavy  
Duty  
Equatorial  
Mount & Tripod  
Product Code  
20464



**GO-TO  
UPGRADEABLE**

### POLAR ILLUMINATOR FOR EQ3-2/EQ5 MOUNTS

This battery operated LED illuminator easily attaches to the exit hole of the polar axis bore of both the EQ3-2 and EQ5 Equatorial Mounts. Provides illumination to the polarscope reticule. A useful aid to the polar alignment procedure. Adjustable light intensity.

Prod.Code 20501



## SKY-WATCHER SYNSCAN™ PRO SERIES GO-TO EQUATORIAL MOUNTINGS

*Tour the night sky at the touch of a button*

For amateur astronomers seeking superior equatorial control and the ease of a high-precision computerised Go-To telescope mounting system for imaging or visual applications, the family of SynScan™ Pro-Series mountings are the answer. All SynScan™ Pro-Series models are premium-grade observing platforms which have been thoughtfully designed for ease of operation. With the user-friendly push-button hand control, locating and viewing the treasures of the night sky becomes as easy as a walk in the park. The SynScan™ hand control allows you to point the telescope at a specific object or even tour the skies at the touch of a button. The user-friendly menu system allows automatic slewing to over 42,900 objects. Even an inexperienced astronomer can master its variety of features in a few observing sessions. The mounts differ mainly in their physical size/weight and their payload capacities. They all come with the following advanced features that even the most discerning observers will appreciate.

### SIMPLY THE STATE-OF-THE-ART

#### COMMON FEATURES

- **SynScan V.3 Computerised Handset**  
Features include ongoing firmware updateability via the internet. Pointing accuracy enhancement (PAE), and capability to store star alignment data. Accepts GPS Mouse for convenient entry of time, date and location.
- **42,900+ Object Database** Including Planets, Named Stars, Double-Stars, Variable Stars & User-Defined Objects
- **Object Catalogues** Messier, IC, NGC & Caldwell
- **Periodic Error Correction (PEC)**  
Training is included for astro-photography without auto-guiding
- **Alignment Methods**  
1-Star, 2-Star or 3-Star alignments. Built-in polarscope
- **Positioning Accuracy** Up to 1 arc minute. Accuracy enhanced by software collimation error (mount mechanical error) compensation.

#### PRO SYNSCAN™ EQUATORIAL GO-TO MOUNTINGS

*"For prolonged observations and astro-imaging, one should consider the SYNSCAN™ EQUATORIAL range. Offering a mount to suit every size of instrument likely to be used by the average observer, these precision equatorials use a common hand controller with a comprehensive feature set capable of consistently locating and tracking thousands of celestial objects. Time and time again, they offer the benchmark standard for the price."*

Ade Ashford, [www.scopetest.com](http://www.scopetest.com)

- **High Slewing Speed**  
Up to 3.4°/sec (800x) and a resolution of 0.144 arc sec.
- **High Torque, Extra-Quiet Stepper Motors**  
With 1.8° step angle and 64 micro-steps driven.
- **Minimal Vibration** For steady long-exposure photography
- **Auto-Guider Interface** For astro-photography
- **Auto-Guider Guiding Speed** Selectable from 0.25x, 0.5x, 0.75x or 1.0x
- **PC Compatible** Can be controlled remotely by PC using popular planetarium software via an RS232 connection
- **Power Requirement** 11-15 V DC 2 Amp Tip Positive (Power supply not incl.)

#### EQ3 PRO SYNSCAN™

(Prod.Code 20230)

Payload Capacity up to 6.5kg.  
Supplied with Aluminium Tripod

Precision  
Computerised  
GO-TO  
Mount!!

#### EQ5 PRO SYNSCAN™

(Prod.Code 20981)

Payload capacity up to 9kg.  
Supplied with 1.75" Stainless Steel Tripod

Precision  
Computerised  
GO-TO  
Mount!!

*"Both the EQ3 and EQ5 PRO SynScan are excellent mounts; pleasingly firm, with little vibration and easily set up. Tracking is also very satisfactory"*  
Sir Patrick Moore CBE FRS

#### EQ5 PRO SYNSCAN™

*"The first impressions of the assembly were of reassuring stability...The 3-star alignment is a great feature of the Go-To facility. Every time we set up, it accurately placed the item we wanted in the field of view of our 25mm eyepiece. The more it was used, the easier it was to go straight to an object or star...The alignment process could not be simpler...In all, the alignment process works so well that you can be on a selected object and tracking it accurately within minutes... It is easy to carry and it allowed us to give friends and neighbours a quick tour of the delights of the night skies."*

BBC Sky At Night Magazine

## GPS MOUSE

A plug-in accessory for the V.3/V.4 SynScan™ handsets that uses global positioning satellite technology to automatically locate and input the users position (longitude & latitude) to the handset.

Prod.Code 20957



## SYNGUIDER™ AUTO-GUIDER

The SynGuider™ can guide an equatorial mount without the help of a computer, improving productivity during astro-photography sessions, helping you to obtain perfectly round stars during long exposure times. Supplied with guiding handset & cable, serial cable and battery pack. Requires 4 x D-size 1.5v batteries or alternative power supply meeting DC6V-12V (lower voltage recommended), 250Ma output current, 2.1mm power jack central positive.

Prod.Code 20240



## HEQ5 PRO SYNSCAN™

Prod.Code 20886

Payload Capacity up to 18kg.  
Supplied with 1.75" Stainless Steel Tripod

*"I like these mounts, they are solid, well thought out and work quietly and effectively"*  
Astronomy Now Magazine



Review of GO-TO Mounts & Tripods under £1350

Precision Computerised GO-TO Mount!!



*"The Three-star alignment accurately corrects for cone error and subsequent GO-TO accuracy was impressive."*  
BBC Sky At Night Magazine

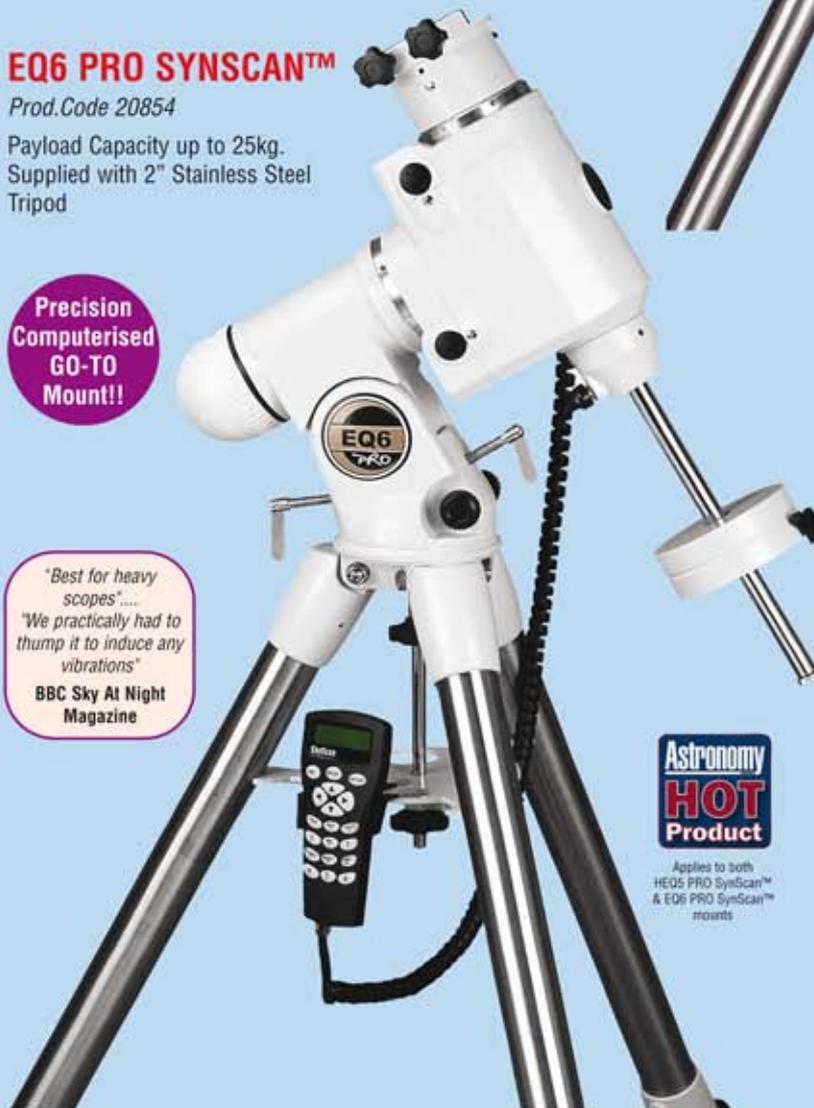
## EQ6 PRO SYNSCAN™

Prod.Code 20854

Payload Capacity up to 25kg.  
Supplied with 2" Stainless Steel Tripod

Precision Computerised GO-TO Mount!!

*"Best for heavy scopes"....  
"We practically had to thump it to induce any vibrations"*  
BBC Sky At Night Magazine



Applies to both HEQ5 PRO SynScan™ & EQ6 PRO SynScan™ mounts

## V4 SYNSCAN™ UPDATEABLE HANDSET

The V.4 SynScan™ hand control includes features such as: Firmware updateability via the internet, Pointing Accuracy Enhancement (PAE), and capability to store star alignment data. Also can accept the GPS mouse attachment.  
(Prod Code 20948)



## SKY-WATCHER POWER TANKS

These extremely portable 12v rechargeable power supplies are highly recommended for use with all SynScan™, SynTrek™ and AutoTracking mounts.

7Ah Power Tank



Prod.Code: 20153

17Ah Power Tank



Prod.Code: 20154

## AZ-EQ5GT PRO SYNSCAN™

The AZ-EQ5GT is a dual purpose, fully functional computerised heavy-duty Go-To/Tracking astronomical mount in both Alt-Azimuth (AZ) and Equatorial (EQ) modes. *Please see our website for full details*

### MAIN FEATURES

- Payload Capacity: 15kg (EQ Mode) or 15kg+15kg (Alt-AZ Dual-Mode)
- Two Telescopes can be Mounted in Parallel in AZ Mode
- Freedom-Find Dual-Encoder Technology allows manual movement without losing positional information
- Supplied with Pier Tripod & two 3.5kg Counterweights
- Power Requirement: DC 11-16V 2A (Sky-Watcher 7Ah or 17Ah Power Tank Recommended)

**OPTIONAL POLARSCOPE FOR AZ-EQ5GT**  
Prod.Code 20131



AZ-EQ5GT MOUNT  
Prod.Code 20302

AZ-EQ5GT in AZ Mode



AZ-EQ5GT in EQ Mode

## AZ-EQ6GT PRO SYNSCAN™

An exciting evolutionary development of the hugely successful NEQ6 PRO. The AZ-EQ6GT is a fully functional computerised heavy-duty GoTo/Tracking astronomical mount in both Alt-Azimuth (AZ) and Equatorial (EQ) modes.

### MAIN FEATURES

- Payload Capacity: 25kg (EQ and AZ modes)
- Two Telescopes can be Mounted in Parallel in AZ Mode
- Freedom-Find™ Dual-Encoder Technology allows manual movement without losing positional information
- Supplied with 2" Stainless Steel Tripod, Polarscope & two 5kg Counterweights
- Power requirement: 12V DC 3A (Sky-Watcher 17Ah Power Tank recommended)

*Please see our website for full details*



AZ-EQ6GT in AZ Mode

AZ-EQ6GT MOUNT  
Prod.Code 20291



AZ-EQ6GT in EQ Mode

## EQ8 PRO SYNSCAN™

Observatory Class Mount available either complete with pier tripod or as the mount head only. Two 10kg counterweights and the Synscan™ handset are supplied with both options. Polarscope is optional. *Please see our website for full details*

### MAIN FEATURES

- Payload Capacity: 50kg
- Freedom-Find™ Dual-Encoder Technology allows manual movement without losing positional information.
- Auto-Home Function
- Permanent Periodic Error Correction (PPEC)
- Power Requirement: 11 to 16 Volts DC, 4A (Sky-Watcher 17Ah Power Tank recommended)

EQ8 PRO Mount Head, including Synscan™ Handset & Counterweights (excluding Pier Tripod) Prod.Code 20292



EQ8 PRO Complete with Pier Tripod  
Prod.Code 20292/20293

PIER TRIPOD FOR EQ8

Prod.Code 20293

**OPTIONAL POLARSCOPE FOR EQ8**



Prod.Code 20295

## HM5 POLAR ALIGNMENT SCOPES

The HM5 Polar axis finder scopes are very useful accessories for the EQ3-2 and EQ-5 Sky-Watcher equatorial mounts. They speed up and refine the polar alignment procedure so the observer can spend more valuable time observing, rather than setting up. The HM5 Polarscopes are usable in both Northern and Southern Hemispheres.

For EQ3-2 Equatorial Mount *Prod.Code 20116*

For EQ5 Equatorial Mount *Prod.Code 20117*



## SYNSCAN™ GO-TO UPGRADE KITS

Available for easily upgrading the standard (non-PRO) equatorial mountings for computerised GO-TO capabilities. Kits comprise V.3 SynScan™ Flash Upgradeable GO-TO handset, 2 x Stepper Motors for DEC and R.A. Drives, Replacement Control Panel / Motor Board, Hand Control Cable, Cable Clamp and Hand Control Holder (12V D.C. Power Supply Required - not supplied).

SynScan™ Upgrade Kit for Standard EQ3-2 *Prod.Code 20107*

SynScan™ Upgrade Kit for Standard EQ5 *Prod.Code 20108*

SynScan™ Upgrade Kit for Standard HEQ5 *Prod.Code 20887*

SynScan™ Upgrade Kit for Standard EQ6 *Prod.Code 20851*

*EQ6 Upgrade Kit Illustrated*



## PILLAR MOUNT SUPPORTS FOR EQ5/HEQ5 & EQ6 MOUNTINGS

Provides a stable platform for all the standard EQ5/HEQ5 & EQ6 mountings including PRO versions. Complete with wheels, which can be disengaged when mount is in use. Designed for use on a reasonably hard, level surface close to where the telescope is normally stored. Colour: Black.

*(n.b. Picture features the HEQ5 pillar support)*



*(n.b. Equatorial head not included)*

**Pillar Mount Support for EQ5/HEQ5**

*Prod.Code 20888*

**Pillar Mount Support for EQ6**

*Prod.Code 20889*

## ENHANCED DUAL AXIS HANDSET (WITH ST-4 AUTOGUIDER PORT)

Can be used to upgrade the standard handset supplied with the EQ3-2 and EQ5 Dual Axis Motor Drive Kits (Prod.Codes 20406 and 20463 on page 38)

Enhanced ST4 Handset for EQ3-2 Dual Axis Motor Drive  
**Prod.Code 20303**

Enhanced ST4 Handset for EQ5 Dual Axis Motor Drive  
**Prod.Code 20304**



## STAINLESS STEEL TRIPODS

1.75" Stainless Steel Tripod (as supplied with EQ5/HEQ5)

*Prod.Code 20798*

2" Stainless Steel Tripod (as supplied with EQ6)

*Prod.Code 20937*



## EQ6 COUNTERWEIGHT SHAFT EXTENSION BAR

Extends the standard EQ6 counterweight shaft by 18cm

*Prod.Code 20858*



## EQ5/HEQ5, AZ-EQ5GT & EQ6 EXTENSION TUBES

Installed between the tripod and the mount head, these heavy duty extension tubes raise the height of the mount by 16" (EQ5/HEQ5), 6.3" (AZ-EQ5GT) and 8" (EQ6) creating a more comfortable viewing position when using a long refractor telescope.

**EQ5/HEQ5 Extension** *Prod.Code 20856*

**AZ-EQ5GT Extension** *Prod.Code 20305*

**EQ6 Extension** *Prod.Code 20857*

*EQ5/HEQ5 Extension Tube*



## EQ6 SADDLE PLATES

**45mm Saddle Plate**

*Prod.Code 20249*

**75mm Saddle Plate**

*Prod.Code 20250*

**45mm/75mm Dual-Fit Saddle Plate**

*Prod.Code 20290*



## SKY-WATCHER COUNTERWEIGHTS

**1.9kg+3.4kg for EQ3-2**

*Prod.Code 20551*

**5.2kg for EQ5/HEQ5/EQ6**

*Prod.Code 20950*

**5.2kg for AZ-EQ6GT**

*Prod.Code 20949*

**10kg for EQ8**

*Prod.Code 20294*



## SKY-WATCHER BARLOW LENSES 1.25"

- A) x2 Sky-Watcher 1.25" Economy Barlow (Single Lens)
- B) x2 Sky-Watcher 1.25" Deluxe Barlow (Double Lens)



A

Prod.Code  
20475

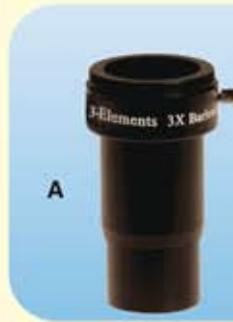


B

Prod.Code  
20364

## PREMIUM x3 BARLOW LENSES 1.25"

- A) 3-Element 3x Barlow Prod.Code 20286
- B) 4-Element 3x Barlow Prod.Code 20285



A



B

## SKY-WATCHER 2" ED DELUXE BARLOW LENS

2" Super-Deluxe  
x2 ED Barlow  
(with 1.25"  
adaptor)



Prod.Code  
20966

## SKY-WATCHER DIAGONALS

- A) 45° Erecting Prism (1.25"/31.7mm) Prod.Code 20376
- B) 90° Erecting Prism (1.25"/31.7mm) Prod.Code 20377
- C) 90° Star Diagonal (1.25"/31.7mm) Prod.Code 20375
- D) 90° Star Diagonal (2"/50.8mm) with 1.25" Adaptor Prod.Code 20570



## 2" ERECTING PRISM

CNC machined and black  
anodised barrels. 45 degree  
angled. Complete with 1.25"  
adaptor. Brass compression  
rings. Threaded for 2" filters.  
Fully Multi-Coated.



Prod.Code 20248

## SKY-WATCHER 45°-90° VARI-ANGLE MIRROR DIAGONAL

This convenient mirror diagonal can easily be switched  
between either 45° or 90°  
viewing, providing  
comfortable viewing  
at all observational  
angles. Standard  
1.25"/31.7mm format.



Prod.Code 20169

## SKY-WATCHER DELUXE DI-ELECTRIC COATED STAR DIAGONALS

Available in either 1.25" or 2" sizes, the mirrors  
inside these diagonals have undergone a special  
high-reflectivity multi-coating process, allowing  
them to reflect 99% of the precious gathered  
starlight, providing exceptional brightness and  
contrast. (Standard diagonals typically reflect  
90-95% of light).

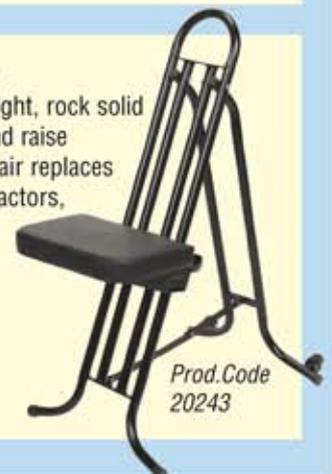


- 1.25"/31.7mm Di-electric Coated 90° Star Diagonal Prod.Code 20967
- 2"/ 50.8mm Di-electric Coated 90° Star Diagonal Prod.Code 20968  
with 1.25" Adaptor

## SKY-WATCHER ANTI-TIP OBSERVING CHAIR Add Solid Comfort to Your Observing Session

Every astronomer should have one of these! The deluxe observing chair from Sky-Watcher is a lightweight, rock solid platform, featuring a height-adjustable padded seat. To change the seating position you just lift the seat and raise it or lower it. No tools are needed, and adjustments are done in a matter of seconds. The observing chair replaces awkward stances and squats with simple comfort. It is a pleasure to use whether you observe with refractors, reflectors, Dobsonians or catadioptric telescopes. Perhaps the nicest feature is the no-tip foot design. Unlike other and substantially more expensive models on the market, the Sky-Watcher observing chair has been designed to retain its balance and stability at all seating heights. This is a great improvement over other models that have a tendency to tip easily.

Extended Dimensions: 95cm(H) x 46cm(W) x 65cm(D) Maximum advisable weight limit approx. 90kg.  
Folded Dimensions: 108cm(H) x 46cm(W) x 15cm(D) Adjustable Seat heights: 30-82 cm Weight: 6kgs



Prod.Code  
20243

## LIGHT POLLUTION FILTERS 1.25" and 2"

These contrast-enhancing anodised aluminium, optical glass filters are designed to block out the wavelengths of light emitted by mercury-vapour light and other common causes of light pollution, whilst providing higher transmission at critical hydrogen-alpha and hydrogen-beta lines than competing filters. Bright, light-polluted skies appear much darker, and the contrast between object and sky is improved significantly. This contrast enhancement effect is particularly apparent on nebulae. Views of galaxies and star clusters are also enhanced, but to a lesser degree. Works well in telescopes of all apertures but is highly recommended for use on smaller telescopes up to 114mm diameter, where conventional filters swallow up too much light. 1.25" Prod.Code 20198 2" Prod.Code 20199



## SKY-WATCHER MOON FILTER

Item screws into 1.25" threaded eyepieces

Prod.Code 20405



## 1.25" LUNAR/PLANETARY FILTER SET

Comprises 4 x high quality glass colour filters. Yellow, Red, Green & Moon/Neutral Density Filters included. These filters will fit most internally threaded eyepiece barrels of 1.25"/31.7mm format. Supplied in attractive foam-lined plastic screw top storage case.



Prod.Code 20202

## H-BETA FILTERS 1.25" and 2"

This high performance CCD filter transmits only the Hydrogen Beta emission line, and therefore is useful for greatly increasing the contrast of objects that glow in the corresponding region of the spectrum, for example the Horsehead, Cocoon and California nebulae. Available in 1.25" and 2" sizes. Recommended for capturing H-beta emitting objects using CCD photography under dark skies 1.25" Prod.Code 20204 2" Prod.Code 20205



## UHC (ULTRA HIGH CONTRAST) FILTERS 1.25" and 2"

The narrowband UHC filter, like the O-III filter, isolates the two doubly ionized oxygen lines (496 and 501nm) in addition to the hydrogen-beta line (486nm) emitted by planetary and most emission nebulae. This filter permits superb views of objects like the Orion, Lagoon, Swan and other extended nebulae. It performs well in smaller aperture instruments owing to its greater light transmission than the O-III, yet still suppresses light pollution well. The UHC filter is the best all-around dark-sky nebula filter. (Full details on our website)



1.25" Prod.Code 20195 2" Prod.Code 20197

## O-III NARROWBAND FILTERS 1.25" and 2"

Specially designed for the observation of gas and planetary nebulae. Isolates just the two doubly ionized oxygen lines (496 and 501nm) emitted by diffuse, planetary and extremely faint nebulae. O-III filters work ideally with larger aperture telescopes in the 200mm and larger range. (Full details on our website)

1.25" Prod.Code 20194

2" Prod.Code 20196



## VARIABLE POLARISING FILTERS 1.25" and 2"

These high quality anodised aluminium, optical glass variable polarising filters reduce the amount of light entering your eyepiece. You can progressively dim the view when observing a bright object, such as the Moon or certain planets, to a level according to your needs, whilst increasing contrast, reducing glare and increasing the amount of detail that can be studied. The light transmission can be varied from 40% down to as little as 1%. The filter will not change the colour of the object being viewed and will prevent eye fatigue and loss of night vision. Each filter set consists of two polarizing filters, one which can be rotated in its cell to adjust the brightness. The filters can also be used as single elements for daytime terrestrial use, for reducing sunlight glare from lakes, oceans or window glass.

1.25" Prod.Code 20200 2" Prod.Code 20201



## CLEAR SKY FILTER (1.25")

This filter blocks night glow and airglow, sodium and mercury emissions (but not UV or IV). This versatile broadband filter is suitable for all objects, whether you are viewing them with your eyes, or capturing them with your camera. Suitable for visual observations and for CCD photography.

1.25" Prod.Code 20209



## DEEP SKY FILTER (1.25")

This filter blocks low and high pressure mercury and sodium vapour lamplight and neon light whilst letting the rest of the visible spectrum through. Excellent for viewing all deep sky objects under the urban sky. Suitable for visual observations and for CCD photography.

1.25" Prod.Code 20211



## HYDROGEN-ALPHA CCD FILTER (1.25")

This long-pass filter limits transmission of light with wave lengths longer than 650nm. Whilst suppressing all other polluting lights, the filter allows you to observe emission nebulae with greatly enhanced contrast. Ideal for observing emission nebulae or objects that emit in the H-alpha region. Suitable only for CCD photography.

1.25" Prod.Code 20210



## UV/IR CUT-OFF FILTER (1.25")

This UV/IR cut filter blocks UV and IR rays to maintain the colour temperature you want, eliminating false colour fringes around bright stars. Offers a 99.9% light transmission rate for bright and clear images. Suitable for visual observations and for CCD photography.

1.25" Prod.Code 20208



## L-RGB CCD FILTER SET (1.25")

Designed for CCD astrophotography, the set includes Luminance-IR, Red, Green, and Blue dichroic CCD filters. The filters are resistant to humidity and scratching and set into a durable aluminium alloy threaded mounting ring. The red green and blue filters have been developed to closely match the natural colours of stars, planets and emission nebulae, whilst the luminance filter removes damaging haze and ultraviolet. The filters offer light transmission of nearly 100%. Please note the red, green and blue filters are not IR coated.

Prod.Code 20207



## 5-POSITION FILTER WHEEL

This handy, time-saving device is a must-have for astronomers, for both visual and photographic use. Up to five filters can be installed in the threaded, numbered compartments, and each can be selected for your eyepiece or camera by simply rotating the inner wheel to any of the five click-stop positions. One compartment can be left empty for unfiltered viewing. The filter wheel can be attached to your focuser either by the supplied 1.25" nosepiece adaptor or via a T-thread. Supplied with a 1.25" eyepiece adaptor, 1.25" focuser nosepiece, T-2 camera adaptor and locking ring. Please note: your focuser will require 20mm of inward focusing distance from the normal focus position to compensate for the thickness of the filter wheel.

Prod.Code 20206



## SKY-WATCHER SUPER-MA SERIES EYEPIECES

The modified achromat series of 1.25"/31.7mm eyepieces offer a good standard of performance in a very affordable package. Designed for telescopes with mid-range to long f/ratio, these oculars have features usually found only in more expensive designs. These Super-MA Eyepieces incorporate a fold-down rubber eye-shield, fully coated optics and outstanding field correction. • Design: Modified Achromat, fully coated • Focal Lengths: 25mm, 10mm & 3.6mm • Eyepiece Barrels: 1.25"/31.7mm Format • Apparent Field of View: 52° (10mm), 50° (25mm), 40° (3.6mm)

	Prod.Code		Prod.Code		Prod.Code
3.6mm	20805	10mm	20802	25mm	20956



## SKY-WATCHER 10mm ERECTING EYEPIECE

Provides an upright, correctly orientated image for terrestrial observations. Suitable for use with Newtonian Reflector or Refractor Telescopes. Supplied with extension tube. (1.25"/31.7mm format) Product Code 20794

## SKY-WATCHER 'SP-SERIES' SUPER PLOSSL EYEPIECES

These standard 1.25"/31.7mm eyepieces set high performance standards for modern telescope oculars. The proven 4-element Plossl designs display edge-to-edge pinpoint imaging across their panoramic 52° fields. Utilisation of top quality optical glass, superior multi-layer coatings and edge-blackened elements deliver superb high contrast images. 'SP-Series' eyepieces minimise spherical aberration, distortion, astigmatism and off-axis colour, whilst their oversized optical elements afford the observer luxurious eye relief. Stray light is eliminated by the fold back rubber eyecups, standard with every 'SP-Series' eyepiece, and all but the lightest three models feature the security of rubber grips. Whether observing fine planetary detail or deep space wonder, whether your telescope is a Newtonian, Refractor or Catadioptric, let the high performance imaging of 'SP-Series' eyepieces unlock its potential!!



	Prod.Code		Prod.Code		Prod.Code
40mm	20366	20mm	20369	10mm	20372
32mm	20367	17mm	20370	7.5mm	20373
25mm	20368	12.5mm	20371	6.3mm	20374

## SKY-WATCHER PLANETARY 58° UWA 1.25" EYEPIECES

The new Sky-Watcher Planetary eyepieces are ideal when high magnification is required for the observation of fine planetary and lunar detail. Based on a modified Plossl design, these fully multi-coated eyepieces are constructed with five lens elements, and are characterised by their wide 58 degree field of view, low distortion, high contrast performance and comfortable operation. Each model features fold down/screw-off rubber eyecups and a generous 16mm eye relief, making them suitable for spectacle wearers. Each model features the security of rubber grips and the eyepiece barrels are threaded for standard 1.25" filters. Available in 2.5mm, 4mm, 5mm, 6mm, 7mm and 9mm focal lengths.

	Prod.Code		Prod.Code
2.5mm	20273	6mm	20276
4mm	20274	7mm	20277
5mm	20275	9mm	20278



## SKY-WATCHER ULTRAWIDE EYEPIECES



These Sky-Watcher Ultra-Wide Angle, Multi-Coated, Long Eye Relief eyepieces offer a generous 66° apparent field of view, allowing more sky objects to be viewed at one time. They provide sharp images right across the field. Rubber eyepieces are included for viewing comfort and to exclude extraneous light. Eye Relief: 20mm (18mm Eye Relief), 15mm (13mm Eye Relief), 9mm (15mm Eye Relief), 6mm (14.8mm Eye Relief).

Prod.Code	Prod.Code	Prod.Code	Prod.Code
6mm 20615	9mm 20616	15mm 20617	20mm 20618

(all Standard 1.25"/31.7mm format)

## EXTRAFLAT™ 1.25" EYEPIECES

The exotic 1.25" ExtraFlat™ 5 or 6-element eyepiece design packs premium features and high-end performance into a surprisingly affordable package. The optical designer has succeeded to remove peripheral field curvature, so now you can enjoy flat, virtually distortion-free images from the centre-to-edge of the field. Optical performance is impressive, with excellent sharpness, contrast and colour rendition. All models feature oversized eye-lens elements, wide fields of view, long eye-relief for spectacle wearers, and soft twist-up rubber eyecups for comfortable viewing. All models are fully broadband multi-coated, feature blackened lens edges and are parfocal. Beautifully finished in high-gloss anodised aluminium with knurled rubber grips. Threaded to accept standard 1.25" filters.

Available in focal lengths of 16mm, 19mm & 27mm, with apparent fields of view of 60°, 65° & 53° and eye relief of 17mm, 19mm & 23mm respectively.



ExtraFlat™ 27mm Prod.Code 20180  
ExtraFlat™ 19mm Prod.Code 20181  
ExtraFlat™ 16mm Prod.Code 20182

## NIRVANA™ UWA-82° EXPERIENCE ULTRAWIDE EYEPIECE 'HEAVEN'!!

**4mm/7mm/16mm High-Performance Eyepieces (1.25") & 28mm (2")**  
These top quality ultra wide angle eyepieces offer an incredible jaw-dropping viewing experience to rival some of the leading premium eyepieces on the market, but at an extremely competitive price. The huge 82° apparent field of view, superb field-edge correction and excellent contrast combine to provide a wonderfully immersive and memorable observational adventure. Work superbly in telescopes of all focal lengths. All models are constructed with 7 lens elements in 4 separate groups (28mm has 6 elements in 4 groups). These exotic eyepiece models feature large eye-lens elements and soft twist-up rubber eyecups for comfortable viewing. All models are fully broadband multi-coated, feature blackened lens edges, internal baffling and are parfocal. 12mm eye relief on all models (18mm for 28mm model). Beautifully finished in high-gloss anodised aluminium with knurled rubber grips. Threaded to accept standard 1.25" filters (28mm threaded for 2" filters). Weight approx 200g (28mm approx 1000g).



Nirvana 4mm UWA-82° 1.25" Ultrawide Eyepiece Prod.Code 20219  
Nirvana 7mm UWA-82° 1.25" Ultrawide Eyepiece Prod.Code 20220  
Nirvana 16mm UWA-82° 1.25" Ultrawide Eyepiece Prod.Code 20221  
Nirvana 28mm UWA-82° 2" Ultrawide Eyepiece Prod.Code 20222

## HYPERFLEX-7E1 7.2-21.5mm ZOOM EYEPIECE (1.25")

A high-performance zoom eyepiece of top quality construction, providing a flat field of view and crisp, clear distortion-free images. Features a continuous focal length of 7.2mm to 21.5mm and a corresponding apparent field of view of 60°-40°. For convenience, focal length positions of 7.2, 10, 13.5 & 21.5mm are engraved on the eyepiece barrel. The zoom is super-smooth to operate and a pleasure to use. Eye relief 15mm. Constructed with 7 lens elements in 4 separate groups. This exotic eyepiece model features a generous sized eye-lens element and soft twist-up rubber eyecup for comfortable viewing. Fully broadband multi-coated, features blackened lens edges, internal baffling and is parfocal. Beautifully finished in high-gloss anodised aluminium with knurled rubber grips. Threaded to accept standard 1.25" filters. *Prod.Code 20239*



## HYPERFLEX-7E2 9-27mm ZOOM EYEPIECE (1.25")

A high-performance zoom eyepiece of top quality construction, providing a flat field of view and crisp, clear distortion-free images. Features a continuous focal length of 9mm to 27mm and a corresponding apparent field of view of 60°-40°. For convenience, reference focal length positions are engraved on the eyepiece barrel. The zoom is super-smooth to operate and a pleasure to use. Eye relief 18mm. Constructed with 7 lens elements in 4 separate groups. This exotic eyepiece model features a generous sized eye-lens element and soft twist-up rubber eyecup for comfortable viewing. Fully broadband multi-coated, features blackened lens edges, internal baffling and is parfocal. Beautifully finished in high-gloss anodised aluminium with knurled rubber grips. Threaded to accept standard 1.25" filters. *Prod.Code 20266*



## 7-21mm & 8-24mm ZOOM EYEPIECES (1.25")

These Sky-Watcher zoom eyepiece models offer exceptional value, providing a range of popular focal lengths in one unit.

**7-21mm (left)** *Prod.Code 20586*

**8-24mm (right)** *Prod.Code 20149*



*"This eyepiece did a great job on a wide range of subjects"*

**BBC Sky At Night Magazine (8-24mm model)**

## SKY-WATCHER SKY PANORAMA (1.25" & 2")

### ULTRA WIDE ANGLE 82° EYEPIECES

The Sky Panorama 7-element ultra wide angle eyepieces offer incredible performance and features in their class. The wide 82° field of view provides an amazing immersive viewing experience over a very flat, well corrected and virtually distortion-free field. Features a built-in, soft rubber eyecup which extends by rotating an external collar. The eye relief is comfortable on all models and suitable for spectacle wearers. All models are fully broadband multi-coated for high contrast and maximum light transmission. Threaded to accept standard filters. Available in focal lengths 7mm (1.25"), 15mm (1.25") and 23mm (2")

*Sky Panorama 7mm Prod.Code 20270*

*Sky Panorama 15mm Prod.Code 20271*

*Sky Panorama 23mm Prod.Code 20272*



## PANAVIEW™ 2" EYEPIECES

The 2" PanaView™ 5-element eyepieces, with their impressive high-contrast, panoramic views, are extremely popular for enthusiasts of low power, deep-sky observing. These exotic eyepiece models feature giant, oversized eye-lens elements, wide 70° fields of view, long eye-relief for spectacle wearers, and soft twist-up rubber eyecups for comfortable viewing. All models are fully broadband multi coated, feature blackened lens edges and are parfocal. Beautifully finished in high gloss anodised aluminium with knurled rubber grips. Threaded to accept standard 2" filters. Available in focal lengths of 26mm, 32mm & 38mm, with apparent fields of view of 70° and eye relief of 20mm, 24mm & 28mm respectively.

*38mm Prod.Code 20183*

*32mm Prod.Code 20184*

*26mm Prod.Code 20185*



## SKY-WATCHER SWA-70 (1.25"/2" Dual Fit)

### 70 DEGREE SUPER WIDE ANGLE 1.25"/2" EYEPIECES

These stylish new soft rubber-clad, 70° super wide angle eyepieces are each constructed from 8 lens elements and are fully multi-coated throughout. A cleverly designed dual-fit barrel enables them to be used in both 1.25" and 2" focusers. Eye relief is a generous 20.6mm. They feature oversized eye lens elements and soft twist-up rubber eyecups for comfortable viewing. Available in 3.5mm, 5mm, 8mm, 13mm & 17mm focal lengths. Threaded for 1.25" filters.

*SWA-70 (Dual-Fit) 3.5mm Prod.Code 20958*

*SWA-70 (Dual-Fit) 5mm Prod.Code 20959*

*SWA-70 (Dual-Fit) 8mm Prod.Code 20960*

*SWA-70 (Dual-Fit) 13mm Prod.Code 20961*

*SWA-70 (Dual-Fit) 17mm Prod.Code 20962*



## SKY-WATCHER EYEPIECE, TORCH & FILTER SET

Comprises 7.5mm, 12.5mm, 17mm & 20mm Super Plossl Eyepieces, Four Threaded Light Filters (Amber, Blue, Neutral Grey & Moon Filter), Dual Beam LED Night Vision Torch, Astronomical Telescope User Guide, in lockable, foam-padded Aluminium Case. (1.25"/31.7mm Format)

*Prod.Code 20265*



## SKY-WATCHER SWA-70 (2")

### 70 DEGREE SUPER WIDE ANGLE 2" EYEPIECES

These stylish new soft rubber-clad, 70° super wide angle 2"/50.8mm eyepieces are each constructed from 8 lens elements and are fully multi-coated throughout. Eye relief is a generous 20.6mm. They feature oversized eye lens elements and soft twist-up rubber eyecups for comfortable viewing. Available in 22mm & 32mm focal lengths. Threaded for 2" filters.

*SWA-70 (2") 22mm Prod.Code 20964*

*SWA-70 (2") 32mm Prod.Code 20965*



## AERO™ 2" ED EYEPIECES

The 2" Aero SWA eyepieces feature a 6-element construction in four groups. Exotic ED glass is employed in the design to significantly reduce false colour. These eyepieces all feature impressively wide 68° fields of view, with virtually distortion-free images. Multi-coating is applied to all air-to-glass surfaces to increase light transmission and image contrast.

All models feature edge-blackened lens edges and are parfocal.

The eyepiece barrels are threaded to accept standard 2" filters. Twist-up rubber eyecups and generous eye relief for spectacle wearers. Finished in high-gloss anodised aluminium with knurled rubber grips. Available in focal lengths of 30mm, 35mm & 40mm, with eye relief of 16.7mm, 17.5mm & 20mm respectively.



*Aero™ ED 40mm Prod.Code 20177*

*Aero™ ED 35mm Prod.Code 20178*

*Aero™ ED 30mm Prod.Code 20179*

## MYRIAD™ 3.5MM, 5MM, 9MM, 20MM MWA (100° & 110°) EYEPIECES

For the ultimate immersive, wide angle experience, the exotic Myriad eyepieces have staggering apparent fields of 100 or 110 degrees! Myriad 3.5mm and 5mm models are constructed with 8 lens elements in six groups, and the 9mm and 20mm models have 9 lens elements in six groups. All models are fully broadband multi-coated with blackened edges for maximum light transmission and contrast. Myriad 3.5mm, 5mm and 9mm models will fit both 1.25 inch and 2 inch focusers (2 inch sleeve is removable) whilst the Myriad 20mm model is 2" only. Eye relief is 15mm on all models except the Myriad 9mm which has 13mm eye relief. Threaded for standard 1.25 inch and 2 inch filters (3.5mm, 5mm & 9mm models) whilst the Myriad 20mm accepts just 2" filters. Soft twist-up rubber eyecups. Finished in high gloss anodised aluminium.

*3.5mm MWA-110° (1.25"/2") Prod.Code 20125*

*5mm MWA-110° (1.25"/2") Prod.Code 20126*

*9mm MWA-100° (1.25"/2") Prod.Code 20127*

*20mm MWA-100° (2") Prod.Code 20129*



## FIELD FLATTENER (with T-ring adaptor)

Superb quality, non-focal reducing Field Flattener optimised for DSLR imaging on refractor telescopes with focal ratios of between f/5.5 to f/6.0. Will also provide much improved results on refractors with focal lengths narrowly outside this optimised f/range. Integral T-Ring adaptor thread. High quality CNC machined body with gloss black anodised finish.

Prod.Code 20225



## CANON/NIKON M48x0.75 ADAPTORS

These Sky-Watcher adaptors are designed for attaching Canon or Nikon DSLR cameras to either the Sky-Watcher Focal Reducer/Field Flatteners or 2" Coma Corrector.

**CANON M48x0.75 Adaptor**  
Prod.Code 20237

**NIKON M48x0.75 Adaptor**  
Prod.Code 20238



## TWIST LOCK ADAPTOR (2" to 1.25")

The Twist Lock Adaptor is an innovative 2"-1.25" low profile helical self-centering eyepiece adaptor, of metal construction, threaded to accept standard 2" filters. Just twist the upper knurled locking ring and your 1.25" eyepiece, camera nosepiece, or laser collimator will be centered precisely in your 2" focuser, and securely gripped by a polypropylene compression ring, which will not scratch or mark your equipment. And wait, there's more....Unscrew the knurled locking ring to expose a male T-thread on the lower black barrel, which conveniently functions as a 2" prime focus (2" to T thread) adaptor by itself. So you're actually getting two adaptors for the price of one!

Prod.Code 20281



## CANON EOS/NIKON T-RING ADAPTORS

Designed for attaching Canon EOS or Nikon DSLR cameras to M42x0.75 T-mount threads.

**CANON EOS T-Ring Adaptor**  
Prod.Code 20282

**NIKON T-Ring Adaptor**  
Prod.Code 20283



## SKY-WATCHER GUIDESCOPE MOUNT

Features full alt-azimuth control for quick and precise alignment of guidescope with main telescope. Standard Sky-Watcher 45mm dovetail saddle plate. Attaches to Sky-Watcher tube ring via camera mounting bracket. Prod.Code 20244



## OFF-AXIS GUIDER

Designed for use with DSLR and CCD cameras, this low profile Off-Axis guider is a convenient alternative to using a separate conventional guide scope for astrophotography, offering several advantages:

- More precise tracking as mechanical flexure and image shift are eliminated from the system. The main camera and guiding camera will always move accurately together.
- The overall system is much lighter and more compact as a separate guide scope is not needed.
- Brighter, higher resolution images of the guide star on the guiding camera, as you are viewing through the main telescope. Easier to notice and correct tracking errors. Supplied with 2" to M48, and M42 to 2" adaptors.

Prod.Code 20280



Prod.Code 20284



## FLIP MIRROR IMAGING DIAGONAL

Designed for convenient CCD imaging. The device has a 1.25" nosepiece, threaded for standard filters on one end, which is inserted into the telescope's focuser and an M42x0.75 T-mount thread on the other end to connect a suitable CCD camera. A 1.25" helical focusing eyepiece tube is provided for visual observations. In visual mode the internal lever-operated mirror is angled at 45° to channel the light path to the eyepiece in order to easily focus and frame the image. In imaging mode the mirror is taken out of the light path, to direct the light path to the camera. Please note: your focuser will require 80mm of additional inward focusing distance from the normal focus position to compensate for the length of the unit.

Smooth-Bore Adaptor for Cameras with 1.25" Nosepieces (Prod.Code 20287)

**RED DOT FINDER**

The Red Dot Finder makes setting up the telescope a snap. After proper alignment, the Red Dot Finder superimposes a small red dot on the sky, where the telescope is pointed. It is an ideal companion to wide field short-tube refractors.



**SKY-WATCHER FINDERSCOPIES**

**A)** 6x30 Finderscope complete with Bracket  
*Prod.Code 20479*  
**B)** 9x50 Finderscope complete with Bracket  
*Prod.Code 20530*  
Shoe for Sky-Watcher Finderscope Brackets  
*Prod.Code 20820*



**6x30 RIGHT-ANGLED FINDERSCOPE**

Provides an upright image with reversed left/right orientation. Supplied with finderscope bracket. Matches the image seen through Refractor or Maksutov-Cassegrain telescopes with star diagonal. Provides exceptionally comfortable and convenient operation compared to a traditional straight-through viewing finder.



Shoe for Sky-Watcher Finderscope Brackets  
*Prod.Code 20820*

**6x30 RIGHT-ANGLED ERECT-IMAGE FINDERSCOPE**

Provides an upright image with completely corrected left/right image orientation. Ideal for fast, intuitive location of target objects. Supplied with finderscope bracket. Provides exceptionally comfortable and convenient operation compared to a traditional straight-through viewing finder.



Shoe for Sky-Watcher Finderscope Brackets  
*Prod.Code 20820*

**9x50 RIGHT-ANGLED FINDERSCOPE**

Provides an upright image with reversed left/right orientation. Supplied with finderscope bracket. Matches the image seen through Refractor or Maksutov-Cassegrain telescopes with star diagonal. Provides exceptionally comfortable and convenient operation compared to a traditional straight-through viewing finder.



Shoe for Sky-Watcher Finderscope Brackets  
*Prod.Code 20820*

**9x50 RIGHT-ANGLED ERECT-IMAGE FINDERSCOPE**

Provides an upright image with completely corrected left/right image orientation. Ideal for fast, intuitive location of target objects. Supplied with finderscope bracket. Provides exceptionally comfortable and convenient operation compared to a traditional straight-through viewing finder.



Shoe for Sky-Watcher Finderscope Brackets  
*Prod.Code 20820*



**ILLUMINATED FINDERSCOPIES**

Battery operated red LED illuminates the crosshair reticule. Finderscope bracket included.



**CAMERA ADAPTORS**



**A)** Tele-Camera Adaptor (Eyepiece Projection)  
*Prod.Code 20512*

**B)** Universal Camera Adaptor (Eyepiece Projection)  
*Prod.Code 20356*

**C)** Prime Focus Camera Adaptor Extension Tube  
*Prod.Code 20503*



**2" T-Mount Camera Adaptor**  
*Prod.Code 20226*

## UNIVERSAL 1.25" & 2" DIGISCOPING ADAPTORS

These ingeniously designed digital camera adaptors allow photography directly through the eyepiece of Astronomical Telescopes, Spotting Scopes and Microscopes. Accepts most Compact Digital Cameras with tripod bush. Micro-adjustable for perfect centring of camera lens. Two models available to fit different diameter eyepieces

### 1.25" Digiscoping Adaptor

(Eyepiece Clamp Adjustable from 28mm-45mm. Suitable for use with 1.25" Eyepieces) *Prod.Code 50823*

### 2" Digiscoping Adaptor

(Eyepiece Clamp Adjustable from 43mm-65mm. Suitable for use with 2" Eyepieces) *Prod.Code 50901*



*Digiscoping adaptor in use, left. (Camera and spotting scope not included)*

## BINOVIEWER (with x2 Barlow Lens)

Designed to fit into a standard 1.25" eyepiece tube. This binocular attachment features high quality BaK-4 prisms for clearer, sharper images. An excellent accessory, which helps to reduce eyestrain. A x2 specially-designed Barlow Lens is included which effectively doubles the magnification of eyepieces used. Special self-centring eyepiece holders with brass compression rings. Supplied in Aluminium Case *Prod.Code 50989*



## SKY-WATCHER 7Ah RECHARGEABLE POWER TANK

Multi-purpose Rechargeable Power Supply recommended for use with all Sky-Watcher SynScan™, SynTrek™ and SupaTrak™ mountings.

- Built-in 12V 7Ah Sealed Lead Acid Rechargeable Battery with Diagnostic LED Display, Protective Fuse.
- Built-in multi-angle, multi LED Spotlight
- 2 x DC 12V output car jack
- 2 x USB output sockets (5V, 1.5A)
- Built-in flashlight with ON/OFF/FLASH function
- Built-in Circuit Breaker for safety operation
- DC cord with car plug is included
- Light diffuser for flashlight is included
- Mains charger, with UK & Euro adaptor plugs



*Prod.Code 20153*

## SKY-WATCHER CHESHIRE COLLIMATING EYEPIECE

Designed to assist with the accurate collimation of a Newtonian reflector telescope.

*Prod.Code 20930*



## NIGHTSTREAK™ GREEN LASER POINTER

This handy 1mW laser device emits a powerful pencil beam of green light, tracing out a clear path in the night sky, enabling you to point out astronomical objects of interest to fellow observers.

*Prod.Code 20971*



## SKY-WATCHER DUAL LED FLASHLIGHT

- Night vision protecting red light for map reading and telescope operation
- Instant switch between Red and White light (two pairs of LED's)
- Adjustable Brightness

*Prod.Code 20741*



## 1mW LASER COLLIMATOR

The 1.25" laser collimator, with 7 adjustable brightness settings, comes complete with a removable 2" adaptor, for use in all sizes of focuser. Designed for the accurate collimation of Newtonian Reflectors, Dobsonians and Refractors. *Prod.Code 20119*



## SKY-WATCHER 12.5mm ILLUMINATED PLOSSL EYEPIECE (1.25")

Red LED illuminates the crosshair reticule.

*Prod. Code 20115*



## SKY-WATCHER 17Ah RECHARGEABLE POWER TANK

Multi-function rechargeable power supply recommended for use with all Sky-Watcher SynScan™, SynTrek™ and SupaTrak™ mountings.

- Built-in 12V 17Ah Sealed Lead-Acid rechargeable battery
- Radio - AM/FM/SIREN
- Diagnostics LED shows Battery Status
- Built-in multi-angle, multi LED Spotlight
- Built-in Circuit Breaker and fuse to Ensure Safe Operation
- 2 x USB output sockets (5V, 1.5A)
- Cord Storage Compartment
- Built-in Spotlight/Flashlight
- Detachable flashlight with On/Off/Flash
- DC Cord with car plug is included
- Mains charger, with UK & Euro adaptor plugs



*Prod.Code 20154*

## SKY-WATCHER AUTO-FOCUSER

Hands-free D.C. focusing device, for accurate focusing, with the minimum of vibration. Dual speed push-button operation (fast & slow).

Can be used with the following telescopes:

Evostar models:  
90/102/120/150

Startravel models:  
80/102/120/150

Prod.Code 20929



## SKY-WATCHER 2" COMA CORRECTOR FOR NEWTONIAN REFLECTORS

Optimised for all Sky-Watcher fast-ratio f/4 & f/5 Newtonian Reflectors & Dobsonians, with 2" focuser. Delivers stunning wide-field views with pinpoint stars to the edge of the field. Magnification remains unaltered. Supplied complete with necessary adaptors for visual use. For imaging use with a DSLR camera, a suitable M48x0.75 adaptor is required to match your camera. Sky-Watcher manufactured Canon and Nikon M48x0.75 adaptors are available: (Product Codes 20237 & 20238)

Coma Corrector (2") Prod.Code 20233



## SKY-WATCHER F/4 APLANATIC SUPER COMA CORRECTOR

Optimised for Sky-Watcher superfast f/4 Quattro imaging Newtonians, delivering stunning wide-field views with pinpoint stars to the edge of the flat field. Magnification remains unaltered. Features a four-element design with one element made from FPL51 ED glass. Requires 55mm back focus. Image height 28mm. Outside diameter 50.8mm. A suitable M48x0.75 adaptor is required to match your camera. Sky-Watcher manufactured Canon and Nikon M48x0.75 adaptors are available (Prod.Codes 20237 & 20238).



Product Code 20231

## SKY-WATCHER DUAL-SPEED 2" CRAYFORD FOCUSER FOR EXPLORER NEWTONIANS

Designed to retro-fit to Explorer 150/200/250/300P models supplied originally with a 2" single-speed focuser.

Gear ratio 10:1 (eyepiece not included).

Prod.Code 20241



## SKY-WATCHER 0.85x FOCAL REDUCER/FLATTENER FOR EVOSTAR

**80/100/120ED DS-PRO** Designed for serious Astro-Imagers. Each model is optimised for the corresponding model in the Evostar-ED DS-PRO series. They effectively reduce the telescope's focal length by a factor of 0.85x and provide much improved field-edge correction. Use in conjunction with Sky-Watcher's M48 Canon or Nikon T-ring adaptors (Product Codes 20237 & 20238).



**0.85x Focal Reducer/Corrector for Evostar-80ED DS-PRO** Prod.Code 20236

**0.85x Focal Reducer/Corrector for Evostar-100ED DS-PRO** Prod.Code 20235

**0.85x Focal Reducer/Corrector for Evostar-120ED DS-PRO** Prod.Code 20234

## SKY-WATCHER GPS MOUSE

A plug-in accessory for the V.3 handset that uses global positioning satellite technology to automatically locate and input the users position (longitude & latitude) to the handset.



Prod.Code 20957

## DUAL-SPEED 2" LOW PROFILE CRAYFORD FOCUSER FOR NEWTONIAN REFLECTORS

A Low Profile CNC machined 10:1 dual-speed focuser designed for Newtonian Reflector telescopes of 9" to 15" aperture. Accepts either 1.25" or 2" eyepieces. Provides an exceptionally smooth focusing operation with the utmost precision, with the aid of its micro-focusing facility. 24mm indexed Drawtube.

Prod.Code 20170



## DUAL-SPEED 2" CRAYFORD FOCUSER FOR SKY-WATCHER REFRACTORS

A high quality CNC Machined 10:1 dual-speed Crayford focuser designed as a direct replacement/upgrade for the rack & pinion focuser supplied with the Sky-Watcher Evostar-102/120/150, Startravel-102/120/150 and Evostar-80ED/100ED/120ED Refractors. Accepts either 1.25" or 2" eyepieces. Provides an exceptionally smooth focusing operation with the utmost precision, with the aid of its micro-focusing facility. Indexed Drawtube.



Prod.Code 20171

## DUAL-SPEED 2" CRAYFORD FOCUSER FOR SCT TELESCOPES

A high quality CNC machined 10:1 dual-speed focuser designed as an upgrade to Schmidt-Cassegrain Telescopes. Accepts either 1.25" or 2" eyepieces. Provides an exceptionally smooth focusing operation with the utmost precision, with the aid of its micro-focusing facility. Indexed Drawtube.



Prod.Code 20172

## FINE BRASS™ TRADITIONAL SOLID BRASS TELESCOPES

Designed to grace the balcony, library, conservatory or drawing room of a fine house. These beautifully crafted, hand-polished, solid brass telescopes have been manufactured to reflect the workmanship and materials of a more elegant bygone age. The magnificent, highly polished brass, is complimented by tripods made from finest quality, solid mahogany wood. All feature high quality, fully coated optics making them highly functional products. All models provide erect images, so can be used for terrestrial viewing as well as for basic astronomical observations.



Fine Brass™ 2060  
Prod.Code 10829

### FINE BRASS™ 2060

- Objective Lens Diameter: 60mm
- Magnification 20x-60x Zoom
- Twist-Focus/Zoom controls
- Brass Alt-Azimuth Arc Mount
- Brass Chain Leg-Brace
- Mahogany Tripod (Medium duty)



### FINE BRASS™ 6040

- Objective Lens Diameter: 60mm
- 40" Long Telescope Tube
- Magnification 28x
- Twist-Focus Control
- Brass Alt-Azimuth Arc Mount
- Brass leg brace
- Mahogany Tripod (Medium-Duty)

Fine Brass™ 6040  
Prod.Code 10830



### FINE BRASS™ 60700

- Objective Lens Diameter: 60mm
- Telescope Focal Length: 700mm
- Supplied with 25mm Plossl Eyepiece (1.25")
- Magnification 28x
- Brass Alt-Azimuth Arc Mount
- Rack & Pinion Focusing
- 6x30 Finderscope
- 45° Erecting Prism
- Brass Accessory Tray / Leg Brace
- Mahogany Tripod (Heavy-Duty)

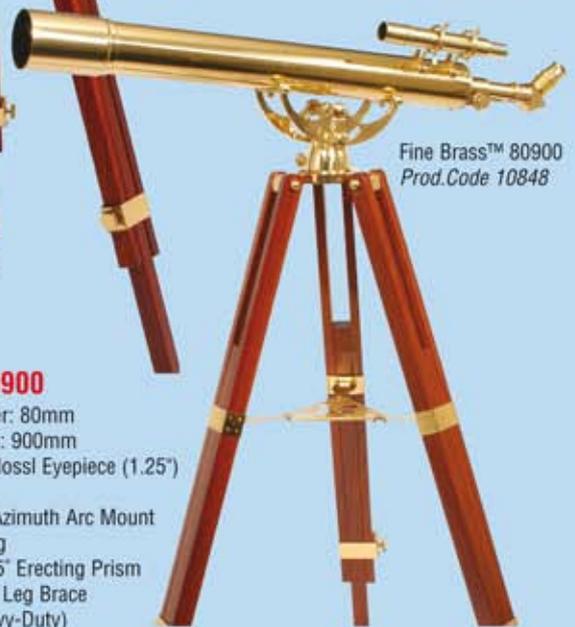
Fine Brass™ 60700  
Prod.Code 10847



### FINE BRASS™ 8040

- Objective Lens Diameter: 80mm
- 40" Long Telescope Tube
- Magnification 28x
- Twist-Focus Control
- Red Copper Alt-Azimuth Arc Mount and Focuser
- Brass leg brace
- Mahogany Tripod (Heavy-duty)

Fine Brass™ 8040  
Prod.Code 10832



### FINE BRASS™ 80900

- Objective Lens Diameter: 80mm
- Telescope Focal Length: 900mm
- Supplied with 25mm Plossl Eyepiece (1.25")
- Magnification 36x
- Brass Alt-Azimuth Arc Mount
- Rack & Pinion Focusing
- 6x30 Finderscope • 45° Erecting Prism
- Brass Accessory Tray / Leg Brace
- Mahogany Tripod (Heavy-Duty)

Fine Brass™ 80900  
Prod.Code 10848

## FINE BRASS™ ADMIRAL 10-30x30 ZOOM DRAW TELESCOPES

These traditional spyglasses would not look out of place in the hands of Nelson himself! Both models have four extendable telescopic sections and magnify a powerful 10x-30x. The zoom is operated by twisting a control ring made of contrasting copper.

The Brass/Leatherette model is supplied with a soft zip-up case, whilst the Full Brass model is supplied with a very attractive solid Mahogany felt-lined presentation/storage box.

Model	Admiral-1	Admiral-2
	Brass/Leatherette	Full Brass + Box
Specification	10-30x30	10-30x30
Magnification	10x-30x	10x-30x
Object Lens Diameter	30mm	30mm
Length	332mm	332mm
Weight	228g	259g
Product Code	10898	10897



Admiral-1

Admiral-2  
(Including Mahogany Box)

## MONOCULARS

### acuter SPORT MONOCULARS

These handy sized rubber armoured monoculars feature fully coated optics and are supplied with lanyard & case.

Their convenient pocketable size makes them ideal for general purpose viewing.

Colour/Material: Black Rubber.

Model	Sport	
Specification	8x21	10x25
Magnification	8x	10x
Object Lens Diameter	21mm	25mm
Field of View	7.5°	5.9°
Length	91mm	113mm
Weight	78g	118g
Product Code	30907	30908



### NITROSPORT

These high quality waterproof monoculars are handy to have with you, whatever the weather. Extremely comfortable to hold, they have been designed to fit snugly into the palm of your hand. Supplied with wrist strap and case.

Colour/Material: Black Rubber.

Model	NitroSport	
Specification	8x25WA	10x25
Magnification	8x	10x
Object Lens Diameter	25mm	25mm
Field of view	8.2°	6.5°
Length	110mm	110mm
Weight	160g	160g
Product Code	30418	30419



### RAPIDE COMPACT

These monoculars feature quality BK-7 prisms and fully coated optics throughout, with a fully multi-coated objective lens. Very good close focus performance (10x25 model from 1.2m). Compact, lightweight and easy to use.

Rubber armoured with knurled grips. Twist-up

eyecup. Eye

relief 13mm

(8x25) and

14mm (10x25)

Supplied with

wrist cord

& soft case with

belt loop.

Model	Rapide Compact	
Specification	8x25	10x25
Magnification	8x	10x
Object Lens Diameter	25mm	25mm
Field of View	6.7°	5.2°
Actual Field of View	114m@1000m	91m@1000m
Nearest Focus Distance	3m	1.2m
Weight	122g	122g
Product Code	30921	30922



### VOYAGER

This high quality, ergonomically designed 42mm aperture waterproof monocular provides a powerful magnification range of 10x-25x. Eye relief varies between 14mm-9.5mm. Features fully multi-coated optics and high-index BaK-4 prisms. Nitrogen filled for waterproof and fog-free viewing. Superb near focus performance from as little as 50.8cm (20"). Fold-down rubber eyecup for spectacle wearers.

Supplied with neckstrap and case.

Colour/material: Black Rubber

Model	Voyager	
Specification	10-25x42	
Magnification	10x-25x	
Object Lens Diameter	42mm	
Field of view	6.7°-5.8°	
Nearest Focus Distance	50.8mm	
Product Code	30200	



### COMBISCOPE CLOSE-FOCUS/ZOOM

A handy but powerful compact viewing device ideal for bringing distant objects closer with its 7x-12x variable zoom. Also excels for close-up work (focuses down to 35cm!) making it ideal for viewing butterflies, insects etc. Fold-back rubber eyecups for spectacle wearers.

Fitted with tripod bush and supplied in case with neck cord.

Colour/Material: Black Rubber

Model	Combiscop	
Specification	7-12x25	
Magnification	7x	
Object Lens Diameter	25mm	
Field of View	4°-2.3°	
Near Focus	35cm	
Length	118mm	
Weight	121g	
Product Code	30946	



### RANGER 7x32 CLOSE-FOCUS

A high quality monocular featuring BaK-4 prisms and multi coated objective lens. Ideal for general nature studies as well as for extreme close-up work. The macro performance allows it to focus down to as near as 30cm, allowing it also to be used for the examination of butterflies, insects and more! Features twist-up rubber eyecups & fitted with tripod bush.

Supplied with Neck Cord and Case.

Colour/Material: Black Rubber

Model	Ranger Close-Focus	
Specification	7x32	
Magnification	7x	
Object Lens Diameter	32mm	
Field of View	7.5°	
Near Focus	30cm	
Length	128mm	
Weight	214g	
Product Code	30976	



**RAPIDE** This high-quality waterproof monocular is ideal for nature observations and target spotting. The ergonomically designed rubber body fits perfectly in the hand for quick focusing and comfortable operation. Can be mounted on the supplied extendable tabletop tripod or a full-size tripod. High index BaK-4 prisms and fully multi-coated optics provide excellent optical performance. Nitrogen filled for waterproof & fog-free performance. Twist-up rubber eyecup for spectacle wearers. Eye relief is 17.5mm and 14mm respectively (10x50 & 12x50 models).

Colour/Material: Black Rubber

Model	Rapide	
Specification	10x50	12x50
Magnification	10x	12x
Object Lens Diameter	50mm	50mm
Field of View	5.8°	4.7°
Product Code	30201	30202



### AMD+ 8x32 SUPER HIGH RESOLUTION

This top of the range monocular features the latest technology, with phase-coated & special super-high reflectivity (SHR) di-electric 60-layer prism coatings, which allows for 99% light transmission for exceptional brightness and image contrast. This model also boasts new technology "flat" multi-coatings on the objective lenses, which also maximise light transmission whilst maintaining natural colour balance. BaK-4 Prisms. Ideal for serious birdwatching.

Colour/Material: Black Rubber

Model	AMD+ 8x32	
Specification	8x32	
Magnification	8x	
Object Lens Diameter	32mm	
Field of View	7.5°	
Near Focus	7m	
Weight	260g	
Product Code	30970	



## THEATRE/OPERA GLASSES

**SYMPHONY** For theatre-goers, a pair of these elegant opera glasses are indispensable. Available in a choice of three styles. The Pearl/Gold and Champagne/Silver have a centre-focus control, whilst the Black/Gold model is focus-free and has the addition of a built-in red LED illuminator, for the discreet illumination of your programme, handbag etc. Supplied in pouch style case.

Model	Symphony		
Style/Colour	Pearl	Champagne	Black*
Specification	3x25	3x25	3x25
Magnification	3x	3x	3x
Object Lens Diameter	25mm	25mm	25mm
Length	65mm	65mm	60mm
Weight	161g	155g	134g
Product Code	30693	30694	30695

\*Focus-free with Light



## COMPACT PORRO PRISM BINOCULARS

### SPRITE-IV

One of the smallest and most convenient glasses you will ever come across. Superb for theatre or stadium use. Excellent optical performance despite its small dimensions. Features half rubber covering. Excellent close focus performance (approx 2m). Supplied with neck cord & case with belt loop. Colour: Silver Material: Black Rubber Grips.



Model	Sprite-IV
Specification	7x18
Magnification	7x
Object Lens Diameter	18mm
Field of View	7.5°
Near Focus	2m
Length	91mm
Weight	190g
Product Code	30874

## ROOF PRISM BINOCULARS

### HELIOS SPORT

These stylish compact binoculars feature fully coated optics, quality BK-7 prisms, fold-down eyecups and protective rubber armouring. Eye relief 10.5mm (both models). Supplied with neck strap and soft case with belt loop.



Model	Helios Sport	
Specification	8x21	10x25
Magnification	8x	10x
Object Lens Diameter	21mm	25mm
Field of View	7°	5.5°
Actual Field of View	122m@1000m	96m@1000m
Nearest Focus Distance	5m	6m
Weight	157g	176g
Product Code	30850	30851

### SPORT DELUXE

These extremely stylish compact binoculars feature fully coated optics, quality BK-7 prisms, twist-up eyecups and protective rubber armouring. The focusing mechanism is fully enclosed to help protect against dust penetration etc. Eye relief 10.5mm (both models). Supplied with neck strap and soft case with belt loop.



Model	Sport Deluxe	
Specification	8x21	10x25
Magnification	8x	10x
Object Lens Diameter	21mm	25mm
Field of View	7°	7.5°
Actual Field of View	122m@1000m	96m@1000m
Nearest Focus Distance	5m	6m
Weight	229g	251g
Product Code	30852	30853

### acuter SPORT

Exceptionally stylish compact binoculars with very good optical performance. Features black rubber covering with a contrasting silver bridge. Oversized focus-wheel makes focusing simple and precise. Supplied with neck cord and case. Colour/Material: Black Rubber

Model	Acuter Sport	
Specification	8x21	10x25
Magnification	8x	10x
Object Lens Diameter	21mm	25mm
Field of View	7.5°	5.9°
Length	91mm	113mm
Weight	190g	223g
Product Code	30839	30840



### NITROSPORT-II

Handy-sized waterproof binocular featuring high quality BaK-4 prisms and good close-focus performance. Surprisingly lightweight, a great benefit when being carried for long periods. Fold-back rubber eyecups for spectacle wearers. Supplied with neck strap and case with belt loop.

Colour/Material: Black Rubber.

Model	NitroSport-II
Specification	10x26
Magnification	10x
Object Lens Diameter	26mm
Field of view	6.5°
Length	120mm
Weight	305g
Product Code	30783

## RAPIDE 8x32

Mid-size 'take-anywhere' binoculars ideal for nature observation and general outdoor viewing, even in wet weather conditions. Sleek and extremely stylish, finished in high quality black rubber armouring. Providing very good optical performance, they feature fully multi-coated optics, high quality BK-7 prisms and a wide 7.2 degree field of view. The modern open-bridge design ensures they are lightweight and convenient to carry. Twist-up eyecups for spectacle wearers with eye relief of 14mm. Nitrogen filled and O-ring sealed for waterproof and fogproof protection. Supplied in soft carrying case with neckstrap. Colour/Material: Black Rubber.

Model	Rapide
Specification	8x32
Magnification	8x
Object Lens Diameter	32mm
Field of View	7.2°
Actual Field of View	126m@1000m
Nearest Focus Distance	4.5m
Length	128mm
Weight	450g
Product Code	30211



## MISTRAL WP3

The Mistral WP3 models offer remarkable performance and specification in their class. Outstanding value for birdwatching. Features high-index BaK-4 prisms and fully multi-coated optics for excellent optical performance. Lightweight and comfortable to hold, with stylishly designed protective rubber armouring. Waterproof and nitrogen-filled for clear, fog free operation. Twist-up eyepieces and generous eye relief of 21mm (8x42) and 17mm (10x42). Suitable for spectacle wearers. Integral tripod bush. Supplied with neck strap, rainguard, and soft case. Colour/Material: Black Rubber.

Model	Mistral WP3	
Specification	8x42	10x42
Magnification	8x	10x
Object Lens Diameter	42mm	42mm
Field of View	6°	5.8°
Actual Field of View	105m@1000m	102m@1000m
Nearest Focus Distance	5m	6m
Weight	630g	645g
Product Code	30854	30855



## NITROSPORT

The NitroSport range of roof prism binoculars feature a stylish modern open hinge design, making them lightweight and easy to handle. Great for birdwatching and general observing, all models feature high index BaK-4 prisms and multi-coated optics. The 8x42 and 10x42 models have the additional benefit of phase-coated and silver-coated prisms for increased brightness and image contrast, as well as being fully multi-coated on all glass to air surfaces. Waterproof and nitrogen-filled for clear, fog free operation. Twist-up eyepieces and suitable for spectacle wearers. Black protective rubber armouring. Integral tripod bush. Supplied with neck strap, eyepiece rainguard and soft case. Colour/Material: Black Rubber.

Model	NitroSport			
Specification	8x34	10x34	8x42	10x42
Magnification	8x	10x	8x	10x
Object Lens Diameter	34mm	34mm	42mm	42mm
Field of View	7.1°	6.1°	7.1°	6.1°
Actual Field of View	124m@1000m	106m@1000m	124m@1000m	106m@1000m
Nearest Focus Distance	4m	4m	3m	3m
Eye Relief	17mm	16mm	17mm	16mm
Weight	422g	412g	633g	633g
Product Code	30212	30213	30214	30215



## SIROCCO-II

Sirocco-II roof prism models are packed with high end features at a remarkable price point, making them outstanding value birdwatching glasses. They feature high-index BaK-4 prisms and fully multi-coated optics for excellent optical performance. Furthermore the prisms are both Silver-Coated and Phase-Coated for enhanced light transmission and contrast. Lightweight and comfortable to hold, with stylishly designed protective rubber armouring. Waterproof and nitrogen-filled for clear, fog free operation.

Twist-up eyepieces and generous eye relief of 21mm (8x42) and 18mm (10x42). Suitable for spectacle wearers. Integral tripod bush. Supplied with neoprene neck strap, eyepiece rainguard and soft case. Colour/Material: Black Rubber

Model	Sirocco-II	
Specification	8x42	10x42
Magnification	8x	10x
Object Lens Diameter	42mm	42mm
Field of View	6.5°	6°
Actual Field of View	114m@1000m	105m@1000m
Nearest Focus Distance	3m	2.5m
Eye Relief	21mm	18mm
Weight	642g	653g
Product Code	30216	30217



## ULTRASPORT

Ideal for birdwatching, these stylish high quality, rubber armoured, modern open-hinge models combine light weight with excellent optical performance. Feature high-index BaK-4 prisms and fully broadband multi-coated optics. O-ring sealed and nitrogen filled for waterproof, fog-free performance. Features an advanced patented click-lock dioptic adjustment integrated in the focusing wheel. Twist-up eyecups for spectacle wearers. Eye relief is 18mm and 15mm respectively (8x42 & 10x42 models). Integral tripod bush. Supplied with objective lens caps, rainguard, neck strap and case. Colour/Material: Black Rubber



*"Well the first thing to say about the Ultrasports is just how snugly they fit in the hand - they're pretty compact for 8x42's, they feel light (and they are at 646g) and thoroughly well balanced, and they have a neat, unfussy open bridge design, meaning that you barely notice that you've got them with you....they're waterproof and fog-free, and very solidly put together....the image is sharp, bright and boasts a very natural colour tone....what's most outstanding for binoculars costing less than £150 is the lack of edge softness - you get full value for almost all of the 129m@1000m field....focusing was precise and easy ...All things considered its hard not to be really impressed"* **Birdwatching Magazine**

Model	Ultrasport	
Specification	8x42	10x42
Magnification	8x	10x
Object Lens Diameter	42mm	42mm
Field of View	7.4°	6.5°
Actual Field of View	129m@1000m	114m@1000m
Nearest Focus Distance	2.5m	2.5m
Weight	646g	646g
Product Code	30192	30193

## MISTRAL WP6

The highly specified Helios Mistral WP6 roof prism range comprises ten models over 32mm, 42mm and 50mm objective lens apertures. They are extremely competent instruments for both birdwatching & general observing, and represent truly amazing value. They feature a very stylish, ergonomic, modern top hinge design covered in sleek green rubber armouring. The body is constructed from lightweight but robust polycarbonate. All models feature high-index, silver-coated BaK-4 prisms and fully multi-coated optics which provide excellent optical performance. Images delivered are crisp and sharp, with very good resolution, brightness and depth of field, whilst maintaining colours to a natural level. Near focus capability of all models is 2.5m or less. Waterproof and nitrogen filled for clear, fog-free operation. Twist-up, 3-position eyecups with metal sub-structure. Suitable for spectacle wearers. Knurled metal, easy-grip 2-turn focusing knob. Integral tripod bush. Supplied with neck strap, eyepiece rainguard, objective lens caps and soft case. Colour/Material: Green Rubber



8x42

Model	Mistral WP6						
Specification	8x32	10x32	8x42	10x42	12x42	10x50	12x50
Magnification	8x	10x	8x	10x	12x	10x	12x
Object Lens Diameter	32mm	32mm	42mm	42mm	42mm	50mm	50mm
Field of View	7.4°	5.8°	7.4°	5.8°	4.4°	5.8°	4.7°
Actual Field of View	129m@1000m	101m@1000m	129m@1000m	101m@1000m	77m@1000m	101@1000m	82m@1000m
Nearest Focus Distance	2m	2m	2m	2m	2m	2.5m	2.5m
Eye Relief	17.5mm	14mm	17.5mm	14mm	17.8mm	17.5mm	14mm
Weight	608g	611g	682g	685g	726g	793g	795g
Product Code	30951	30952	30953	30955	30957	30958	30960

## MISTRAL WP6 ED

The premium Mistral WP6 8x42ED, 10x42ED & 10x50ED models have all the standard features of the non-ED models shown on the previous page. In addition, they incorporate exotic Extra-low Dispersion (ED) glass in their construction for enhanced colour fidelity and also have the additional benefit of phase-coated prisms for enhanced light transmission and image contrast.



10x50ED

Colour/Material:  
Green Rubber



8x42ED

Model	Mistral WP6	10x42ED	10x50ED
Specification	8x42ED	10x42ED	10x50ED
Magnification	8x	10x	10x
Object Lens Diameter	42mm	42mm	50mm
Field of View	7.5°	5.9°	5.9°
Actual Field of View	129m@1000m	101m@1000m	103m@1000m
Nearest Focus Distance	2m	2m	2m
Eye Relief	17.8mm	14.3mm	17.8mm
Weight	684g	687g	795g
Product Code	30954	30956	30959

## AERO-ED

Ideal for birdwatching, these stylish premium quality, rubber armoured, modern open-hinge models combine light weight construction (magnesium alloy body) with excellent optical performance. Employs exotic ED (Extra low dispersion) glass for superior colour fidelity. Features high-index Phase-Corrected Bak-4 prisms and full broadband multi-coated optics. O-ring sealed and nitrogen filled for waterproof, fog-free performance. Twist-up rubber eyecups for spectacle wearers. Eye relief is 18.4mm and 15.2mm respectively (8x42 & 10x42 models). Integral tripod bush. Supplied with objective lens caps, rainguard, neck strap and case.



Colour/Material:  
Green Rubber



Model	Aero-ED	10x42	10x42
Specification	8x42	10x42	10x42
Magnification	8x	10x	10x
Object Lens Diameter	42mm	42mm	42mm
Field of View	6.8°	5.6°	5.6°
Actual Field of View	119m@1000m	98m@1000m	98m@1000m
Nearest Focus Distance	2m	2m	2m
Weight	685g	685g	685g
Product Code	30127	30128	30128

*"The quality of the optical components used and their coatings as well as their long eye-relief are real highlights. I also really like the open bridge design and the fact that the body is made from magnesium alloy is also good. But what I guess is most impressive is the fact that you get all this for around £200."*  
[www.bestbinocularreviews.com](http://www.bestbinocularreviews.com)

## SLIM PROFILE BINOCULAR TRIPOD ADAPTOR

Designed for roof prism binoculars with a narrow inter-objective distance



Product Code  
50310

## AQUILA MS

These high quality mid-sized Waterproof, Nitrogen-Filled centre-focus porro prism binoculars, feature a durable black rubber covering and are designed for fog-free viewing in wet weather conditions. Extremely comfortable to hold due to their convenient, ergonomic design and light weight. They feature Multi-Coated optics and BaK-4 Prisms, providing outstanding optical performance for their relatively compact size. Twist-up rubber eyecups for spectacle wearers. Supplied with neck strap and case.

Model	Aquila MS	8.5x32	8.5x32
Specification	6.5x32	8.5x32	8.5x32
Magnification	6.5x	8.5x	8.5x
Object Lens Diameter	32mm	32mm	32mm
Field of View	8.2°	7.8°	7.8°
Actual Field of View	143m@1000m	128m@1000m	128m@1000m
Nearest Focus Distance	3.5m	5m	5m
Eye Relief	17mm	14mm	14mm
Weight	500g	520g	520g
Product Code	30133	30134	30134

## PORRO PRISM BINOCULARS



Colour/Material:  
Black Rubber

## PORRO PRISM BINOCULARS

### SOLANA

A range of high quality, well constructed porro prism binoculars finished in attractive, black rubber armouring. Knurled rubber finger grips ensure they are secure and comfortable to hold. All models feature quality BK-7 prisms and all optical surfaces are fully coated, providing very good optical performance. Overall these binoculars offer construction and performance which belie their modest prices. All models are fitted with a tripod adaptor bush and supplied with neck strap, lens caps and soft case. Eye relief as follows: 8x40 (10mm), 7x50 (12mm), 10x50 (10mm), 12x50 (9mm), 16x50 (7mm).  
Colour/Material: Black Rubber

Model	Solana				
Specification	8x40	7x50	10x50	12x50	16x50
Magnification	8x	7x	10x	12x	16x
Object Lens Diameter	40mm	50mm	50mm	50mm	50mm
Field of View	7.8°	6.8°	6.5°	5.2°	3.8°
Actual Field of View	138m@1000m	119m@1000m	114m@1000m	88m@1000m	61m@1000m
Nearest Focus Distance	7m	7m	8m	12m	12m
Product Code	30206	30207	30208	30209	30210



10x50 Model

Applies to 7x50 Model



10x50 Model

### FIELDMASTER

A high quality range of ergonomically designed porro prism binoculars offering an exceptional combination of performance, features and value. All models feature high quality BaK-4 prisms and multi-coated optics. Long-eye relief and fold-back rubber eyecups for spectacle wearers. Tripod adaptor bush. Supplied with neck strap and case. Colour/Material: Black Rubber.

Model	Fieldmaster				
Specification	8x40	7x50	10x50	12x50	16x50
Magnification	8x	7x	10x	x12	x16
Object Lens Diameter	40mm	50mm	50mm	50mm	50mm
Field of View	6°	6°	5.5°	4.5°	4°
Actual Field of View	119m@1000m	110m@1000m	105m@1000m	90m@1000m	73m@1000m
Eye Relief	18m	19m	18m	17m	17m
Length	135mm	180mm	180mm	180mm	180mm
Weight	635g	825g	825g	825g	825g
Product Code	30692	30685	30686	30687	30688



### WEATHERMASTER-III

These high quality Waterproof, Nitrogen-Filled binoculars, feature a durable black rubber covering and are designed for fog-free viewing in wet weather conditions.

They feature Multi-Coated optics and BaK-4 Prisms, which provide very good optical performance. Fold-down rubber eyecups for spectacle wearers. Integral tripod bush.

Supplied with neck strap and case.

Colour/Material: Black Rubber.

Model	Weathermaster-III	
Specification	7x50	10x50
Magnification	7x	10x
Object Lens Diameter	50mm	50mm
Field of View	6.6°	6.5°
Near Focus	6m	8m
Length	190mm	190mm
Weight	890g	890g
Product Code	30879	30880

### NATURESPORT 7X50 FOCUS-FREE

This model does not require focusing, making it extremely easy to use and practical for viewing moving-subject activities such as motor sports, racing events as well as for general-purpose observations. The only downside is that it will not focus as closely as a centre-focus model and should be used for viewing objects at least 15 metres away. Features BK-7 prisms, fully coated optics, integral tripod bush & fold-down rubber eyecups. Supplied with neckstrap and case.

Colour/Material: Black Rubber

Model	Naturesport 7x50
Specification	7x50 Focus Free
Magnification	7x
Object Lens Diameter	50mm
Field of view	7.1°
Actual Field of View	124m@1000m
Eye Relief	19mm
Length	170mm
Weight	780g
Nearest Focus Distance	15m
Product Code	30307



## NATURESPORT 8-20x50 ZOOM

This model features a powerful but practical 8x-20x zoom magnification, so you can choose the magnification to suit the occasion. Feature BK-7 prisms, fully coated optics, integral tripod bush and fold-down eyecups. Supplied with neck strap and case.

Colour/Material: Black Rubber.

Model	Naturesport 8-20x50 Zoom	
Specification	8-20x50	
Magnification	8x-20x	
Object Lens Diameter	50mm	
Field of view	4.7° - 2.7°	
Actual Field of View	82.1-47.2m@1000m	
Eye Relief	16mm-15mm	
Length	180mm	
Weight	830g	
Nearest Focus Distance	7m	
Product Code	30276	



## NATURESPORT-PLUS HIGH RESOLUTION

These models feature the same stylish, soft natural rubber design and styling as the Naturesport range except these models have been upgraded with advanced features for maximum performance. Optical performance is superb due to premium quality BaK-4 prisms, multi-coated optics, long eye relief, and oversized eye-lenses. Twist-up eyecups for spectacle wearers. Tripod adaptor bush. Supplied with neck strap and case. Colour/Material: Black Rubber.

Model	Naturesport-Plus		
Specification	8x40WA	7x50	10x50WA
Magnification	8x	7x	10x
Object Lens Diameter	40mm	50mm	50mm
Field of View	8.2°	6.5°	6.5°
Actual Field of View	143.3m@1000m	114m@1000m	114m@1000m
Eye Relief	19mm	19mm	19mm
Length	130mm	170mm	170mm
Weight	690g	790g	790g
Product Code	30681	30683	30682



Sky at Night  
BEST BUY 2015

BEST 10x50 BINO'S UNDER £125

10x50 Model

## POWERMASTER ZOOM

Available in 70mm and 80mm sizes, these large aperture black rubber-armoured binoculars with their powerful continuous zoom magnifications will bring distant objects close into view. All models feature quality BK-7 prisms and fully multi-coated optics. Twist-up eyecups are provided making them suitable for spectacle wearers. A tripod adapter bush is incorporated so the binoculars can be easily mounted onto a photographic tripod with an L-type binocular tripod adapter (not supplied). Supplied with neckstrap & case.

Model	Powermaster	
Specification	12-36x70	13-40x80
Magnification	12x-36x	13x-40x
Object Lens Diameter	70mm	80mm
Field of View	3.0° to 1.4°	2.7° to 1.3°
Actual Field of View	52m-24m@1000m	47m-23m@1000m
Eye Relief	18mm to 13.5mm	18mm to 13.5mm
Nearest Focus Distance	8m	8m
Weight	1555g	1970g
Product Code	30198	30199



12-36x70 Model

**OCEANMASTER-RC** Heavy-duty, nitrogen filled, waterproof binoculars, specially designed for professional marine use. Feature superior quality BaK-4 prisms, individual eyepiece focusing and robust rubber armouring. Fitted with an internal compass, range-finder scale and compass illuminator for navigational purposes. Tripod adaptor bush. Supplied with neck strap and case. Colour/Material: Blue/Black Rubber.

Model	Oceanmaster-RC
Specification	7x50
Magnification	7x
Object Lens Diameter	50mm
Field of view	6.6°
Length	185mm
Weight	1140g
Product Code	30701



**L-TYPE TRIPOD ADAPTORS** Allows binoculars with a tripod adaptor bush, to be fitted to any standard photographic tripod, when maximum viewing stability is required. The large adaptor is a must for larger binoculars such as the Quantum-4 range, but also provides the best stability for smaller sizes of binocular. **Large Tripod Adaptor** Prod. Code: 50309 **Small Tripod Adaptor** Prod. Code: 50308



## QUANTUM-4 (CF) & (IF) SERIES OBSERVATION BINOCULARS

High quality waterproof observation binoculars, with individual eyepiece focusing, designed for medium- to long-range terrestrial and astronomical observations. Incorporating BAK-4 prisms and a fully broadband multi-coated optical system. The 10x60 and 15x70 models feature Central Focusing (CF) and an integral tripod bush. The larger 20x80, 20x90 and 25x100 models feature Individual Eyepiece Focusing (IF) and a central stabilising bar with sliding tripod adaptor, for optimum balancing on tripod. High-precision construction using CNC machined metal components. Finished in Black Rubber and supplied in carrying case.

Model	Quantum-4		
Specification	15x70	20x80*	25x100
Magnification	15x	20x	25x
Object Lens Diameter	70mm	80mm	100mm
Field of View	4.4°	3.22°	2.53°
Near Focus	15m	20m	30m
Weight	1.87kg	3.1kgs	4.6kgs
Product Code	30873	30808	30810

\*Triplet Objective Lens

15x70 Model

25x100 Model

*"Good for deep-sky views".... "The field of view was also noticeably sharper than nearly all the binoculars on test" (Quantum-4 15x70 model)*  
**BBC Sky At Night Magazine**

## STELLAR-II SERIES HIGH RESOLUTION OBSERVATION BINOCULARS

High quality waterproof, nitrogen filled observation binoculars, with individual eyepiece (IF) focusing, designed for medium-to-long-range terrestrial, marine and astronomical observations. Shockproof design incorporating a robust but lightweight magnesium alloy body construction. Features BaK-4 prisms and a fully broadband multi-coated optical system. The optical system features high-transmission lens and prism coatings allowing 85% light transmission. Eyepiece design features oversized elements, generous 20mm eye-relief and fold-down rubber eyecups for spectacle-wearers. Features integral tripod mounting bush. Finished in stylish dark green rubber and supplied in soft storage/carrying case with padded neck strap, eyepiece rainguard and captive objective lens caps.

Model	Stellar-II Series High Resolution Observation Binoculars			
Specification	7x50	10x50	10.5x70	15x70
Magnification	7x	10x	10.5x	15x
Object Lens Diameter	50mm	50mm	70mm	70mm
Field of View	7.2°	6.5°	4.8°	4.4°
Actual Field of View	126m@1000m	114m@1000m	84m@1000m	77m@1000m
Eye Relief	20mm	20mm	20mm	20mm
Exit Pupil Diameter	7.14mm	5mm	6.66mm	4.66mm
Weight	1150g	1150g	1750g	1750g
Product Code	30129	30130	30131	30132

50mm

70mm

## APOLLO-HR SERIES HIGH RESOLUTION OBSERVATION BINOCULARS

Top quality waterproof, nitrogen filled, rubber armoured observation binoculars, with individual eyepiece (IF) focusing, designed for medium-to-long-range terrestrial and astronomical observations. The Apollo 7x50 is also a fine binocular for marine use. Shockproof design incorporating a robust all-metal body construction. Features BAK-4 prisms and a fully broadband multi-coated optical system. The high-resolution optical system features high-transmission lens and prism coatings allowing a massive 92% light transmission, producing a flat field and distortion-free images. Exotic eyepiece design featuring oversized elements, long eye-relief and fold-down rubber eyecups for spectacle-wearers. Features integral tripod mounting bush and threaded eyepiece units to accept standard 1.25" astronomical light-filters. Supplied in foam-lined storage/carrying case.

70mm

85mm

110mm

50mm



Model	'Apollo' Series High Resolution Observation Binoculars						
Specification	7x50	10.5x70	15x70	15x85	22x85	20x110	28x110
Magnification	7x	10.5x	15x	15x	22x	20x	28x
Object Lens Diameter	50mm	70mm	70mm	85mm	85mm	110mm	110mm
Field of view	7.5°	5°	4°	3.5°	3°	2.7°	2.3°
Exit Pupil Diameter	7.1mm	6.66mm	4.66mm	5.66mm	3.86mm	5.5mm	3.93mm
Weight	1.56kg	2.5kg	2.5kg	4.8kg	4.8kg	7.1kg	7.1kg
Product Code	30205	30121	30122	30123	30124	30125	30126

## QUANTUM-5.2 20/40x100 SEMI-APO OBSERVATION BINOCULARS (Triplet, 45° angled)

Top-quality waterproof observation binocular with individual helical eyepiece focusing, designed for medium-to-long-range terrestrial and astronomical observations. Incorporating oversized BaK-4 prisms and a fully broadband multi-coated optical system. Top quality objective lens triplet. Supplied with two pairs of eyepieces. Eyepieces are angled at 45°, offering excellent versatility for both terrestrial and astronomical viewing. Features carrying handle, built-in lens hoods and tripod adaptor. High quality precision all-metal construction. Supplied in foam-lined storage/carrying case.

Model	Quantum-5.2
Specification	20/40x100
Magnification	20x & 40x
Object Lens Diameter	100mm
Field of View	42m/26m@1000m
Near Focus	20m
Weight	7.6kg
Product Code	30833



*Accepts Standard 1.25" Telescope Eyepieces*



Picture shows lens hood extended

## QUANTUM-6.3 22x100 SEMI-APO OBSERVATION BINOCULARS (Triplet, 90° Angled)

Top-quality waterproof, nitrogen-filled observation binoculars with individual helical eyepiece focusing, designed for medium-to-long-range terrestrial and astronomical observations. Incorporating oversized BaK-4 prisms and a fully broadband multi-coated optical system. The top quality triplet objective lenses deliver superb, semi-apochromatic optical performance. Supplied with one pair of x20 eyepieces. Eyepieces are angled at 90° making them ideal for high-angle astronomical viewing. Features carrying handle, built-in lens hoods and tripod adaptor. High quality precision all-metal construction. Supplied in foam-lined storage/carrying case.

Model	Quantum-6.3
Specification	22x100
Magnification	22x
Object Lens Diameter	100mm
Field of View	37m@1000m
Near Focus	40m
Weight	6.5kg
Product Code	30985



*Accepts Standard 1.25" Telescope Eyepieces*



Picture shows lens hood extended

## QUANTUM 7.4 25x100 OBSERVATION BINOCULAR (45° Angled Viewing, with U-Fork Mount)

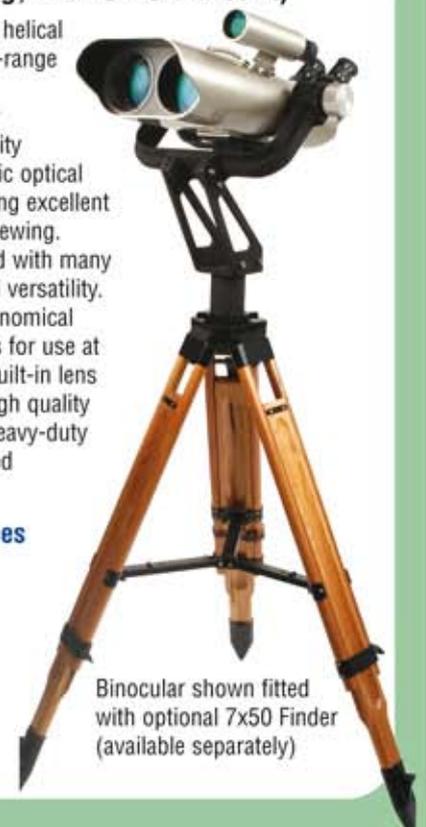


Optional Accessory:  
7x50 Finderscope  
Prod.Code 30846

Top-quality observation binocular with individual helical eyepiece focusing, designed for medium-to-long-range terrestrial and astronomical observations. Incorporating oversized BaK-4 prisms and a fully broadband multi-coated optical system. Top quality triplet objective lenses provide semi-apochromatic optical performance. Eyepieces are angled at 45°, offering excellent versatility for both terrestrial and astronomical viewing. The eyepieces can also be removed, and replaced with many standard 1.25" astronomical eyepieces for added versatility. The U-Fork mount is specially designed for astronomical use, allowing the binocular to be angled upwards for use at high altitudes approaching the zenith. Features built-in lens hoods, finderscope shoe and carrying handle. High quality precision all-metal construction. Supplied with heavy-duty hardwood tripod. Binocular supplied in foam-lined storage/carrying case.

*Accepts Standard 1.25" Telescope Eyepieces*

Model	Quantum-7.4
Specification	25x100
Magnification	25x
Object Lens Diameter	100mm (Semi-Apo Triplet)
Field of View	2.53°
Near Focus	30m
Weight	13kg (Bino) + 7.1kg (Tripod)
Product Code	30876



Binocular shown fitted with optional 7x50 Finder (available separately)



## FIELDMASTER A90 30-90x90 WATERPROOF ZOOM SPOTTING SCOPE

The Fieldmaster-A90 offers large aperture & high magnification performance at an astonishing price. The spotting scope is rubber armoured to protect against knocks. Waterproof and nitrogen-filled for fog-free viewing. Lightweight polycarbonate body. Features fully-coated optics and an extendable dew shield/sun shade. Eye relief from 18 to 15mm. Supplied with Stay-On Case and tabletop tripod, but can also be fitted to a full-size tripod via its tripod bush.



Model	Fieldmaster-A90
Specification	30-90x90
Magnification	30x-90x Zoom
Object Lens Diameter	90mm
Field of View	1.5°-0.8°
Nearest Focus Distance	10m
Product Code	40903

## UNIVERSAL 1.25" & 2" DIGISCOPING ADAPTORS

These ingeniously designed digital camera adaptors allow photography directly through the eyepiece of Astronomical Telescopes, Spotting Scopes and Microscopes. Accept most Compact Digital Cameras with tripod bush. Micro-adjustable for perfect centring of camera lens. Two models available to fit different diameter eyepieces.

- 1.25" UNIVERSAL DIGISCOPING ADAPTOR**  
Eyepiece Clamp Adjustable from 28mm-45mm. Suitable for use with 1.25" Eyepieces. Prod.Code 50823
- 2" UNIVERSAL DIGISCOPING ADAPTOR**  
Eyepiece Clamp Adjustable from 43mm-65mm. Suitable for use with 2" Eyepieces. Prod.Code 50901  
*Digiscoping adaptor in use - shown right (camera and spotting scope not included)*



## Sky-Watcher ED APOCHROMATIC REFRACTORS

The Sky-Watcher EQUINOX-80 and EVOSTAR-80ED DS-PRO (see pages 30/31) models are first-class terrestrial choices for Birdwatching, as well as Astronomy at the highest level.



**Sky-Watcher** These versatile Sky-Watcher short-tube refractor models excel for terrestrial observations as well as for deep-sky astronomical observations. Daytime spotting-users love the precision control and rock steadiness of the high quality AZ3 deluxe alt-azimuth mount with adjustable aluminium tripod and accessory tray. It features two flexible slow-motion cables, one for vertical and one for horizontal control. Accurately tracks distant moving objects with ease.

*(Please see pages 24-26 for full details of these telescopes)*

### MERCURY-705 (AZ3)

#### 70mm f/7 SPOTTING SCOPE

- Magnifications (with eyepieces supplied): x20 & x50
- AZ3 Deluxe Alt-Azimuth Mount & Tripod

### STARTRAVEL-102 (AZ3)

#### 102mm f/4.9 SPOTTING SCOPE

- Magnifications (with eyepieces supplied): x20 & x50
- Multi-Coated Objective Lens
- AZ3 Deluxe Alt-Azimuth Mount & Tripod

### STARTRAVEL-120 (AZ3)

#### 120mm f/5 SPOTTING SCOPE

- Magnifications (with eyepieces supplied): x24 & x60
- Multi-Coated Objective Lens
- AZ3 Deluxe Alt-Azimuth Mount & Tripod



**Lotus Flower:** Photo taken through Sky-Watcher 80/400 Refractor (Startravel-80) Photo courtesy of David Shen, Vancouver, BC, Canada

**Bird's Head:** Photo taken through Sky-Watcher 102/500 Refractor (Startravel-102) Photo courtesy of William Ronald, Vancouver, BC, Canada

### STARTRAVEL-80T (Tube Assembly)

#### 80mm f/5 SPOTTING SCOPE

- Magnifications (with optics supplied): x16, x32, x40, x80
- Will fit to standard photographic tripod



### STARTRAVEL-102T (Tube Assembly)

#### 102mm f/4.9 SPOTTING SCOPE

- Magnifications (with eyepieces supplied): x20 & x50
- Will fit to standard photographic tripod



### STARTRAVEL-120T (Tube Assembly)

#### 120mm f/5 SPOTTING SCOPE

- Magnifications (with eyepieces supplied): x24 & x60
- Will fit to standard photographic tripod



## FIELDMASTER ED60DS & ED80DS DUAL-SPEED WATERPROOF ZOOM SPOTTING SCOPES

The Fieldmaster ED60DS (doublet) and ED80DS (triplet) models are perfect for serious birdwatching and nature observations. These high-end instruments provide a highly corrected image and overall excellent optical performance. Exotic ED (Extra-low dispersion) glass is employed in its construction, which virtually eliminates chromatic aberration and delivers high-fidelity true-colour images. Optics are fully multi-coated throughout. Features a precision 10:1 ratio dual-speed focuser for exceptional focusing accuracy. Fully waterproof and nitrogen-filled for clear, fog-free viewing. The supplied zoom eyepiece provides a generous 20-18mm of eye relief. Features a lightweight polycarbonate body with sliding dewshield/sun shade. Supplied with Stay-on case and tabletop tripod but can be used on a full-size tripod via its standard tripod bush.

Model	Fieldmaster-ED60DS & ED80DS	
Specification	15-45x60ED	20-60x80ED
Magnification	15x-45x	20x-60x
Object Lens Diameter	60mm	80mm
Field of View	2.8° - 1.3°	2.1° - 1°
Actual Field of View	49m-23m@1000m	37m-13m@1000m
Nearest Focus Distance	5m	4m
Product Code	40908	40909



Fieldmaster-ED60DS



Fieldmaster-ED80DS



## FIELDMASTER-ED82DS TRIplet 20-60x82ED DUAL-SPEED WATERPROOF ZOOM SPOTTING SCOPE

The top of the range Fieldmaster-ED82DS is perfect for the most discerning birdwatcher and nature observer. This high-end instrument features a triplet objective lens which provides a highly corrected image and exceptional optical performance, even to the edge of the field. Two Exotic ED (Extra-low dispersion) lens elements are employed in its construction, which virtually eliminate chromatic aberrations, and deliver high-fidelity true-colour images. Features high quality BaK-4 Prisms. Optics are fully broadband multi-coated throughout for maximum light transmission and contrast. Features a precision 4:1 ratio dual-speed focuser for exceptional focusing accuracy. The stylish spotting scope body is constructed from robust but lightweight magnesium alloy, with a sliding dewshield/sun shade. Fully waterproof and nitrogen-filled for clear, fog-free viewing. The supplied 7.5-22.5mm zoom eyepiece, constructed from 8 lens elements, provides a generous 19.5-18mm of eye relief and is suitable for use with or without spectacles. Supplied with Stay-on case. Standard tripod bush.

Model	Fieldmaster-ED82DS Triplet
Specification	20-60x82ED
Magnification	20x-60x
Object Lens Diameter	82mm
Field of view	2.1°-1.05°
Actual Field of View	39m-20m@1000m
Nearest Focus Distance	13m
Weight	1885g
Focal Length	450mm
Multi-Coated Optics	Yes
Product Code	40910

Fieldmaster-ED82DS Triplet



Reverse View



**DSLR CAMERA ADAPTOR FOR FIELDMASTER ED82DS & ED85DS MODELS**  
Prod Code 40444



## FIELDMASTER-ED85DS 20-60x85ED DUAL-SPEED WATERPROOF ZOOM SPOTTING SCOPE

The new high-end Fieldmaster-ED85DS is perfect for the discerning birdwatcher and nature observer. This refined instrument features a doublet objective lens which provides a highly corrected image and excellent optical performance. One Exotic ED (Extra-low dispersion) lens element is employed in its construction, which virtually eliminates chromatic aberration and delivers high-fidelity true-colour images. Features high quality BaK-4 Prisms. Optics are fully broadband multi-coated throughout for maximum light transmission and contrast. Features a precision 4:1 ratio dual-speed focuser for exceptional focusing accuracy. The stylish spotting scope body is constructed from robust but lightweight magnesium alloy, with a sliding dewshield/sun shade. Fully waterproof and nitrogen-filled for clear, fog-free viewing. The supplied 7.5-22.5mm zoom eyepiece, constructed from 8 lens elements, provides a generous 20-18mm of eye relief and is suitable for use with or without spectacles. Supplied with Stay-on case. Standard tripod bush.

Model	Fieldmaster-ED85DS
Specification	20-60x85ED
Magnification	20x-60x
Object Lens Diameter	85mm
Field of view	2.2°-1.1°
Actual Field of View	38m-20m@1000m
Nearest Focus Distance	4.5m
Weight	1950g
Focal Length	457.7mm
Multi-Coated Optics	Yes
Product Code	40911

Reverse View



Fieldmaster-ED85DS



## acuter 'MAK-70' 25-75x70 MAKUTOV-CASSEGRAIN SPOTTING SCOPE

Compact but powerful rubber armoured spotting scope. Fully multi-coated optics provide excellent light transmission, resolution and contrast. Focusing is ultra-smooth and is operated by rotating a control conveniently positioned on the right side of the body. Standard 1/4-20 Tripod Bush.



*This mighty little scope is a good match for the Merlin Multi Function, Fully-Automated Mount and Tripod shown right (see page 66).*

Model	MAK-70
Specification	25-75x70
Magnification	25x-75x
Object Lens Diam.	70mm
Focal Length	750mm (f/10.7)
Field of View	1.3°-0.67°
Near Focus	4.2m
Length	285mm
Weight	1.03kg
Product Code	40993



## acuter NATURECLOSE™ WATERPROOF SPOTTING SCOPES

Acuter NatureClose™ spotting scopes are ideal for bird watching, target spotting and general nature observations. Optical performance is excellent, with all models delivering crisp, high-resolution images with excellent colour correction. A high quality 8-24mm zoom eyepiece, with generous eye relief, is supplied as standard with all models. Optics are multi-coated for maximum light transmission and image contrast. Constructed from robust but lightweight aluminium with a rubberised finish. Integral tripod mounting bush. Extendable sunshade. Supplied with padded stay-on case.

ST65A (45° Angled) Prod.Code: 40913



ST80A (45° Angled) Prod.Code: 40915



ST100A (45° Angled) Prod.Code: 40917



ST80B (Straight) Prod.Code: 40916

Model	ST65A	ST80A and ST80B	ST100A
Specification	16-48x65	20-60x80	22-67x100
Magnification	16x-48x	20x-60x	22x-67x
Object Lens Diameter	65mm	80mm	100mm
Field of View	2.5°-1.26°	2°-1°	1.8°-0.9°
Actual Field of View	43m-23m@1000m	37m-19m@1000m	33m-17m@1000m
Nearest Focus Distance	6.5m	7.5m	8.5m
Focal Length	386mm	480mm	540mm
Weight	1066g	1405g	1875g

**NatureClose™  
DSLR Camera  
Adaptor**

Product Code 40947



## acuter NATURECLOSE™ EYEPIECES

These high quality, multi-coated, fixed magnification eyepieces are available separately, to increase the versatility of your Acuter Pro-Series spotting scope. All eyepiece models feature eyecups, making them suitable for spectacle wearers.



(\* F=8-24mm. Supplied as standard with all models)

Eyepiece Model	Focal Length	Magnification when used with Scope Size:			Product Code
		65mm	80mm	100mm	
MH5	5mm	80x	100x	108x	40766
MH6	6mm	60x	75x	90x	40767
MH9	9mm	40x	50x	60x	40768
ME15	15mm	25x	31x	36x	40769
ME19	19mm	20x	25x	28.4x	40770
MK25	25mm	15x	19x	21.6x	40771

*N.B Since the 65mm, 80mm and 100mm spotting scope models each have different focal lengths, the magnifying effect of the eyepiece will vary, depending on which spotting scope model it is used with.*

**PADDED STAY-ON CASE**  
(Supplied with all models)



**acuter GRANDVISTA™ DUAL-SPEED WATERPROOF SPOTTING SCOPES**

Acuter GrandVista™ series advanced achromatic waterproof spotting scopes are exceptionally stylish and highly functional precision optical instruments. All models feature a 15:1 ratio dual-speed focuser for excellent focusing precision. They combine superb optical performance, excellent colour correction & robust mechanical design with many other desirable high-end features that make them perfect companions for Birdwatching, Serious Nature Observations, Target Shooting and even Astronomy. Supplied as standard with a very high quality 8-24mm Zoom Eyepiece (eye relief 20mm), with twist up eyecup, but can be used with virtually any standard 1.25" push-fit telescope eyepiece for exceptional versatility. Eyepieces are held securely via a brass compression ring.

The spotting scope can be fully rotated in its collar to change the orientation of the eyepiece, a useful feature for target shooters. Optics are multi-coated for maximum light transmission and image contrast. Shock resistant rubber armouring. Integral tripod mounting bush. Extendable sun shade with sighting line. Supplied with padded stay-on case & DSLR camera adaptor mounting ring.

**All Models accept 1.25" Push-Fit Telescope Eyepieces**



DS65A  
Product Code 40919



DS80A  
Product Code 40920



DS100A  
Product Code 40921

Model	DS65A	DS80A and DS80A-ED	DS100A
Specification	16-48x65	20-60x80	22-67x100
Magnification	16x-48x	20x-60x	22x-67x
Object Lens Diameter	65mm	80mm	100mm
Field of View	2.6°-1.3°	2°-1°	1.9°-0.9°
Actual Field of View	45m-23m@1000m	37m-17m@1000m	33m-17m@1000m
Nearest Focus Distance	4.5m	6m	8m
Focal Length	386mm	480mm	540mm
Weight	1700g	2035g	2500g

**All Models Supplied with Dual-Speed Focuser**

**acuter GRANDVISTA™ DS80A-ED DUAL-SPEED WATERPROOF SPOTTING SCOPE**

The DS80A-ED model shares the same features with the other GrandVista™ models with one major difference. One objective lens element is constructed from expensive ED (Extra-Low Dispersion) glass, which virtually eliminates chromatic aberrations, providing near perfect colour reproduction and an even purer viewing experience.



DS80A-ED Product Code 40922





## MERLIN MULTI-FUNCTION MOUNT & TRIPOD

AN AMAZING MOTORISED MOUNTING FOR ALL APPLICATIONS

The Acuter Merlin is a DC servo powered multi-function mounting, designed primarily as a motorised platform for automated terrestrial photography as well as an auto-tracking mount for astronomy. Can be used to mount a wide variety of imaging equipment including astronomical telescopes, spotting scopes, camcorders and cameras. The mount is also useful for security/surveillance applications.

- FEATURES:**
- Ideal mount for both Terrestrial & Astronomical use
  - Single-Arm Alt-Azimuth Mount
  - Powerful DC operated Servo Motor
  - IR Encoder with Optical Wheel
  - Multi-Function Hand Control to Command the Motor
  - Ability to Store Multi-Terrestrial Positions to GO-TO
  - Slow (32x), Medium (64x) or High-Speed (800x) Alt-Azimuth Slewing, for Terrestrial & Astronomical Imaging
  - Clear Latitude Scale
  - Standard 1/4-20 Tripod Connector
  - Multi-Speed (1x, 4x & 8x Sidereal Rate) Automatic Astronomical Tracking
  - 'Cruise & Shoot' Auto-Imaging\* Feature for Terrestrial Positions (\*Controls Software of the Acuter Digital-70 Spotting Scope & Canon EOS Cameras via the AUX Socket)
  - North & Level Start Position for Astro Auto-Tracking Feature
  - Maximum Payload up to 4kg in Weight
  - Recommended for Spotting Scopes/Short-Tube Telescopes 70mm-102mm. (Max Tube Length 400mm for Optimum Results)
  - Lightweight & Portable. Simple and Easy to Use
  - 3-Section Aluminium Tripod, with 25cm Geared Centre-Column
  - Maximum Overall Extended Height to Tripod Bush Platform: 156cm

Prod.Code 50988



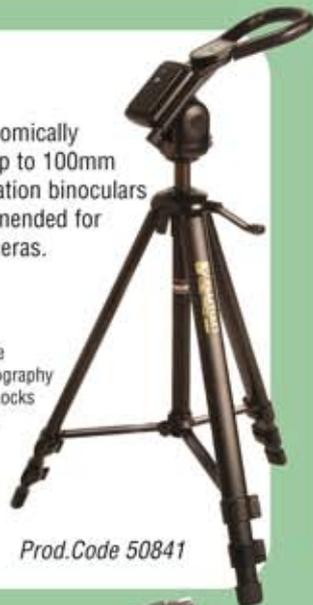
## EVOLUTION 9569AC 3-WAY MEDIUM-DUTY TRIPOD

A good quality tripod offering an economically priced platform for Spotting Scopes up to 100mm in Diameter & traditional-style observation binoculars of up to 80mm Diameter. Also recommended for Camcorders and Compact Digital Cameras.

- Maximum Height (fully extended): 150cm
- Minimum Height (retracted): 53cm
- Quick-Adjust Vertical Tension
- Geared 32cm Centre Column with Lock & Brace
- Tilting Photographic Head allows Portrait Photography
- 3-Section Aluminium Legs with Clip-type Leg-Locks
- 360° Panning, -90° to +60° Vertical Adjustment
- Bubble-Level for Accurate Levelling
- Innovative Loop Pan Handle Doubles as Carrying Handle
- Rubber Feet
- Weight 1.6kg

Spare Quick-Release Plate

Product Code 50894



Prod.Code 50841

## HORIZON 8115 2-WAY HEAVY-DUTY TRIPOD

This robustly constructed model combines excellent stability, with precise control, and is ideal for a wide variety of imaging equipment. Comfortably manages all Spotting Scopes and Observation Binoculars of up to 100mm in Diameter. Can be used effectively indoors, or in the field. Recommended for Serious Nature Observing, Astronomical Observing, & Video applications.

- Maximum Height (fully extended): 180cm
- Minimum Height (retracted): 78cm
- Quick-Adjust Vertical Tension
- Geared 31cm Centre Column with Lock & Brace
- 360° Panning, -90° to +60° Vertical Adjustment
- 3-Section Heavy-Duty Tubular Aluminium Legs
- Bubble-Level for Accurate Levelling
- Heavy-Duty Twist-Type Leg-Locks with Rubber Grips
- Self-Levelling Rubber Feet with Screw-out Metal Spikes
- Weight 3.58kg

Spare Quick-Release Plate Product Code 50896



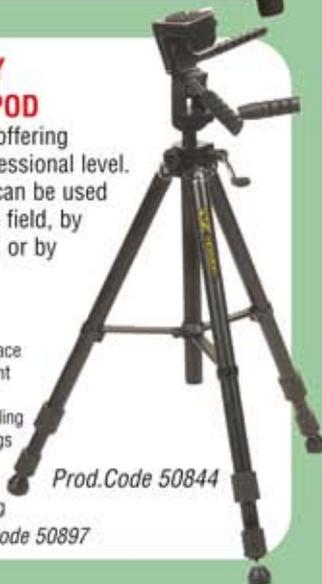
Prod.Code 50842

## HORIZON 8126 HEAVY-DUTY 3-WAY PHOTOGRAPHIC TRIPOD

Exceptionally robust Camera tripod offering excellent stability, for use up to professional level. As with the 8115 model, the tripod can be used with equal success indoors or in the field, by utilising its self-levelling rubber feet, or by employing it's built in metal spikes.

- Maximum Height (fully extended): 180cm
- Minimum Height (retracted): 78cm
- Geared 31cm Centre Column with Lock & Brace
- 360° Panning, -75° to +45° Vertical Adjustment
- Tilting Photographic Head allows Portrait Photography
- Bubble-Level for Accurate Levelling
- 3-Section Heavy-Duty Tubular Aluminium Legs
- Heavy-Duty Twist-Type Leg-Locks with Rubber Grips
- Self-Levelling Rubber Feet with Screw-out Metal Spikes
- Weight 3.97kg

Spare Quick-Release Plate Product Code 50897



Prod.Code 50844

## MICRO-ADJUSTABLE TABLE/WINDOW SILL MOUNT

A useful device for use with spotting scopes (and binoculars, with a binocular tripod adaptor). Designed to clamp to a Table, Window Sill or any other even horizontal surface thickness up to 36mm. Incorporates a standard 1/4-20 Tripod Bush. Features Micro-elevation and azimuth adjustments. Gloss black anodised finish.

Prod.Code 50153



## CAR WINDOW/FENCE MOUNT

Product Code 50341

## DELUXE MICRO-ADJUSTABLE TABLETOP TRIPOD

- Standard 1/4-20 Tripod Connector
- Height Adjustable Centre Column
- Micro-Elevation Adjustment

Product Code 20365



**FOTOMATE TRIPOD BALL HEADS** Fotomate precision Ball Heads are robustly constructed from aluminium and will fit to any tripod with a standard 1/4" or 3/8" screw connection. They allow your equipment to be mounted via a standard 1/4" screw attachment, manipulated at any angle and then clamped safely and securely in position.



Model	Fotomate H-26	Fotomate H-26QR	Fotomate H-28QR
Payload Capacity	3.5kg	3.5kg	4.5kg
Base Diameter	43mm	43mm	56mm
Height	70mm	74mm	100mm
Weight	172g	256g	416g
Product Code	50406	50407	50408
Spare Quick Release Plate	N/A	50409	50410

## SKYWATCHER ALLVIEW™ MULTI-FUNCTION COMPUTERISED MOUNT

**AN INGENIOUS MOTORISED PLATFORM FOR PANORAMIC TERRESTRIAL PHOTOGRAPHY, ASTRONOMY, TERRESTRIAL OBSERVATIONS, SECURITY & SURVEILLANCE** The award winning, innovative and highly versatile Sky-Watcher Allview motorised robotic mount & tripod is an indispensable companion for all your imaging and observational needs. The Allview can be used for 360° Panoramic or Still Time Lapse photography, Video Capture, a Go-To mount for Astronomy or simply a stable motorised platform for mounting a spotting scope or binoculars. The Allview is also a useful tool for security and surveillance applications. The Allview is the 2011 winner of the prestigious International CES Innovations award for design and engineering excellence.

### TAKE AMAZING PANORAMIC TERRESTRIAL PHOTOGRAPHS WITH YOUR DSLR

The supplied multi function L-bracket will accept most cameras via a standard 1/4-20 tripod bush, and can orientate the camera in both portrait and landscape mode. The camera is connected to the mount with an electronic shutter release cable for automatic camera control. Electronic shutter release cable supplied, compatible with Canon EOS digital 1100D/1000D/600D/550D/500D/450D/400D/350D/60D models, but cables for other camera makes/models are readily available (see table below). Parameters are entered into the Synscan handset and the mount can then start taking panoramic photos in three different modes; Easy Pano Mode, Preset Pano Mode and Time Lapse Mode. Even full 360° panoramas are possible incorporating everything from the Zenith to the Nadir!!

### VIDEO COURSING & TIME LAPSE MODE

In Video Coursing mode, the mount allows you to capture up to 10 hours of video between two user-determined points. The slewing speed is automatically determined by the time the user decides to slew between those points. Similarly, in Time Lapse mode the user can choose a starting and finishing point, and a slewing time up to 10 hours between those points. This feature allows the user to capture a series of still images (up to 65,535) during the slew, and using suitable image processing software, the images can be merged to create time lapse video.

### MOTORISED MOUNT FOR DAYTIME OBSERVATIONS

In its simplest application, the mount can be used as a stable motorised platform to automatically pan your favourite compatible equipment to any desired position. Simply use the Synscan handset to select the speed and the directional buttons to move the mount in altitude and azimuth axes.

### COMPUTERISED GO-TO MOUNT FOR ASTRONOMY

Telescopes up to 5kg can be mounted to either the 45mm dovetail or the supplied L-bracket via a standard 1/4-20 tripod bush. Longer telescopes can be mounted on the outside of the mounting arm allowing complete freedom of vertical movement. The supplied Synscan handset has a database of over 42,900 celestial objects, and commands the mount to locate and track those objects automatically, allowing you to explore the night sky to your heart's content. The patented 'Freedom-Find' dual-encoder design means the mount can also be moved by hand without losing alignment or positional information.

- Specifications (general):**
- Mount type: Alt-Azimuth with dual-encoders
  - Overall weight with tripod: 9.5kg
  - Payload capacity: 5kg
  - Tracking Mode: Dual-Axis
  - Quick release clutches for manual override
  - Power requirement: 8V to 15V DC 1Amp (Tip positive). Skywatcher power tank recommended or 10 x AA alkaline batteries (not supplied)
  - Motor type: DC Servo Motors
  - Handset: Backlit LCD Screen, two-line 16 character display
  - Bluetooth-to-serial adaptor compatible, for wireless control via PC
  - Multi-Function L-type mounting bracket
  - Tripod supplied: stainless steel (extendable)
  - Allview head can be detached and fitted to most Prosumer tripods via 3/8" thread

- Specifications (photo/video):**
- Panoramic photo modes: Easy Pano Mode, Preset Pano Mode & Time Lapse Mode
  - Electronic shutter release cable: Canon C1 cable supplied (other cables readily available)
  - Video Coursing mode: Up to 10 hours video capture between two points

### Specifications (astronomical):

- Tracking Rates: Sidereal, Lunar & Solar
- Alignment Method: Brightest Star & Two-star
- Slew Speeds: 1x, 2x, 8x, 16x, 32x, 200x, 400x, 600x, 800x & 1000x
- Go-to Pointing Accuracy: Up to 5 arc minutes, with Pointing Accuracy Enhancement Function (PAE)
- Handset Database: 42,900 objects including complete Solar System, M, NGC, IC & SAO catalogues

### Accessories

**ELECTRONIC SHUTTER RELEASE CABLE C1**  
Suitable for Canon EOS models 1100D, 1000D, 650D, 600D, 550D, 500D, 450D, 400D, 350D & 60D  
(same as standard cable supplied with Allview) Prod Code 50970

**ELECTRONIC SHUTTER RELEASE CABLE AP-R3C (C3)**  
Suitable for Canon EOS models 50D, 40D, 30D, 20D, 10D, 7D, 6D, 5D & 1D Prod Code 50971

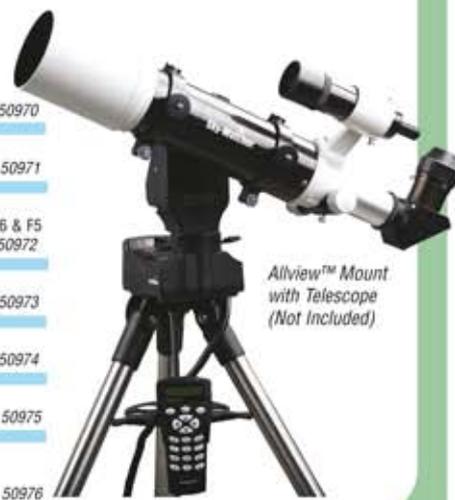
**ELECTRONIC SHUTTER RELEASE CABLE AP-R1N (N1)**  
Suitable for Nikon models D900, D700, D300, D200, D100 (via battery grip), D4, D3, D2, D1, F100, F90, F6 & F5  
Suitable for Fujifilm models FinePix, S5 Pro, S3 Pro, MZ-L & ZX-L Prod Code 50972

**ELECTRONIC SHUTTER RELEASE CABLE AP-R2N (N2)**  
Suitable for Nikon models D30 & D70S Prod Code 50973

**ELECTRONIC SHUTTER RELEASE CABLE AP-R3N (N3)**  
Suitable for Nikon models D5000 & D90 Prod Code 50974

**ELECTRONIC SHUTTER RELEASE CABLE AP-R3L (OPT2)**  
Suitable for Olympus models E-P2, E520, E420, E-P1, E510 & E410 Prod Code 50975

**ELECTRONIC SHUTTER RELEASE CABLE AP-R1S (S1)**  
Suitable for Sony models A100, A200, A300, A350, A550, A700 & A900  
Suitable for Minolta models A7D, ASD & Dimage Prod Code 50976



## zenith® MICROSCOPES *SERVING EDUCATION AND SCIENCE FOR OVER 45 YEARS*

Zenith microscopes have been supplied to Education, Medicine and industry for over 45 years and during this time they have been held in high regard for the rare combination of quality, performance and value which they offer.



### PM-1 x20 PRIMARY INSPECTION MICROSCOPE

A high quality instrument of robust, reliable metal construction and excellent optical performance. Highly recommended for Primary Science Education and Field Study Centres (officially approved by the Royal Microscopical Society for use in primary schools). Extremely simple to use, the PM-1 is ideal for the examination of everyday objects in fascinating yet understandable detail. The 'anti-tamper' student-proof design includes 'locked-on' eyepiece & stage clips and a slip-clutch on the focus movement. Also an extremely useful routine inspection microscope for use in industrial applications.

#### Standard Specification:-

- Fixed magnification x20 • x10 widefield eyepiece (locked on) • x2 achromatic objective • Field of view 9.5mm
- Working distance 81mm • Monocular head inclined 45° & rotatable 360° for convenient viewing • Upright/erect image
- Precise, smooth-action Rack & Pinion focusing • Black & White reversible Stage Plate
- With Stage Plate removed the microscope can focus through base aperture to view larger objects
- Complete with Dust Cover
- Supplied in polystyrene pack
- Overall dimensions 145 x 110 x 260mm
- Weight approx 1.2kg

Prod. Code	Description
60021	PM-1 x20 Primary Inspection Microscope

### T-70 SERIES TEACHING MICROSCOPES

The Zenith T-70 Series are purpose-built School microscopes of good optical quality and particularly robust die-cast construction. Two identical models are available with different illumination systems. Maximum Magnifications of x200 ensure ease of use and makes them ideal instruments for use in Primary, Middle and Lower Secondary Schools. Features an ingenious base design, which when rotated, instantly converts the microscope from vertical to inclined viewing mode. 'Anti-tamper' safety features include 'locked-on' eyepiece & objective lenses, locked-on stage clips, slip-clutch on the focus movement to prevent over-focusing and focus-stop to prevent damage to glass microslides and objective lenses.



#### Standard Specifications:-

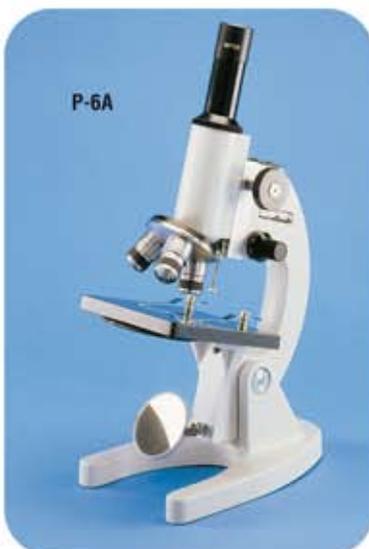
**T-70M Teaching Microscope:** Illumination via Plano-Concave Mirror

**T-70L Teaching Microscope:** With 'Locked-On' 230v 6w Substage illuminator

#### General Features (both models):-

- Magnification range x40, x100, x200
- x10 Widefield Eyepiece with Pointer
- Achromatic Objectives x4, x10, x20R (R = retractable)
- Rotating 5-Hole Disc Diaphragm
- Single, precise smooth-action Focus Control for easy focusing
- Overall dimensions 160 x 120 x 290mm
- Stage measures 92 x 92mm
- Triple Objective Turret
- Complete with Dust Cover
- Supplied in polystyrene pack
- Weight approx 1.5kg

Prod. Code	Description
60002	T-70M Teaching Microscope
60003	T-70L Teaching Microscope
60221	SB-6 Replacement 230v 6w Bulb



### P-6A STUDENT MICROSCOPE

Another purpose built student microscope, featuring both coarse and fine focusing mechanisms. 'Anti-tamper' safety features include 'locked-on' eyepiece and stage clips, slip-clutch on the focusing movements to prevent over-focusing and a focus-stop to prevent damage to glass microslides and objective lenses. Recommended for secondary school biology studies.

#### Standard Specification:-

- Magnification range x40, x100, x400
- x10 Widefield Eyepiece with Pointer
- Parfocal Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65) (R = retractable)
- Stage Condenser (N.A. 0.65)
- Rotating 6-Hole Disc Diaphragm
- Separate smooth-action coarse & fine focusing controls
- Rack & Pinion focusing • Triple Objective Turret
- Plano-concave Mirror
- Supplied in polystyrene pack with Dust Cover
- Overall dimensions 195 x 120 x 360mm
- Weight approx 2.3kg

Prod. Code	Description
60005	P-6A Student Microscope

Accessories		
60155	WF-5	x5 DIN Eyepiece
60153	H-7	x7 Huyghenian Eyepiece
60151	AM-16	x16 DIN Widefield Eyepiece
60166	ME-10S	x10 Widefield Measuring Eyepiece
60116	SM-1	1mm Stage Micrometer (100x0.01mm Divisions)

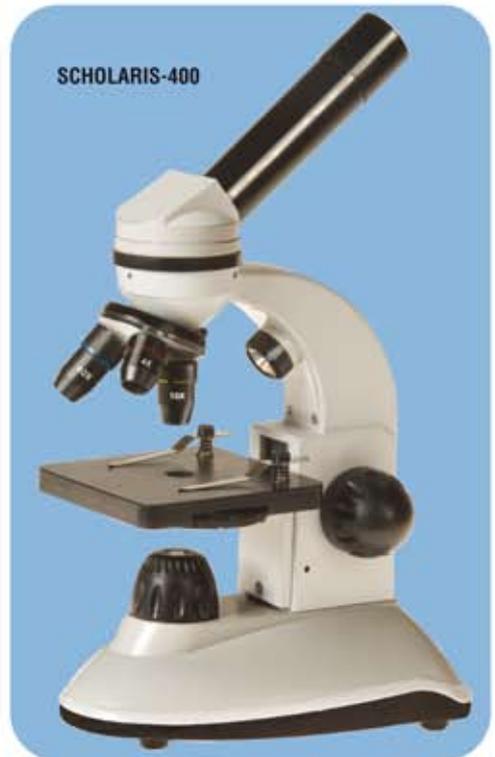
## SCHOLARIS-400 DUAL LED BIOLOGICAL/INSPECTION MICROSCOPE

The Scholaris-400 is a wonderfully versatile and easy to use instrument, providing a perfect platform to start discovering the fascinating wonders of the micro-world! Elegantly designed and robustly constructed, the Scholaris-400 makes an ideal beginners microscope. Featuring dual-LED illumination (transmitted and incident) for the examination of a wide variety of specimens. The substage transmitted illumination allows the examination of prepared microscope slides and transparent specimens at 40x, 100x & 400x magnifications, whilst the incident illumination allows opaque objects (e.g. coins, whole insects etc.) to be observed at 40x & x100. Supplied with an accessory kit, including 5 x prepared slides, 5 x plain slides, cover slips, test tube, pipette, probe and tweezers. Requires 3 x AA batteries (not supplied). A perfect gift!

### Standard Specification:-

- Magnification range: x40, x100, x400 • x10 Widefield Eyepiece • Parfocal Achromatic Objectives: x4, x10, x40
- Separate Incident and Transmitted LED Illumination • Rotating 6-Hole Disc Diaphragm
- Locked-on Stage Clips
- Single-Speed Focusing Control Knobs
- Dust Cover
- Overall Dimensions 160x118x300 mm
- Weight Approx 800g
- Supplied in Gift Box

Prod. Code	Description
60045	Scholaris-400 LED Biological/ Inspection Microscope
Accessory 60236	Replacement LED Bulb



**INCIDENT (TOP) ILLUMINATION**  
Allows opaque objects to be observed



**TRANSMITTED SUBSTAGE ILLUMINATION**  
Allows prepared microscope slides to be observed



**ACCESSORY KIT SUPPLIED**  
Includes 5 x prepared slides, 5 x plain slides, cover slips, test tube, pipette, probe and tweezers



## ZENITH MICROSCOPE SLIDE SETS

We offer a range of sets containing 100, 50 or 25 prepared slides. Each set includes a selection of various interesting botanical, zoological, aquatic and insect specimens. **Please check full content details on our website [www.opticalvision.co.uk](http://www.opticalvision.co.uk)**

**100pc Microscope Slide Set**  
Supplied in wooden box  
Prod.Code 60124

**50pc Microscope Slide Set**  
Supplied in wooden box  
Prod.Code 60125

**25pc Microscope Slide Set**  
Supplied in plastic box  
Prod.Code 60126

Supplied slides may vary from images shown





ULTRA-400M

## ULTRA-400 SERIES ADVANCED STUDENT MICROSCOPES

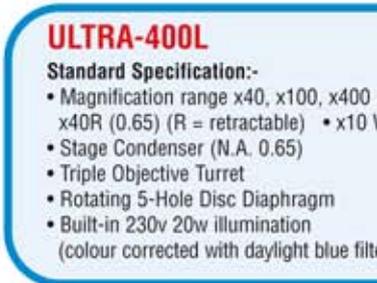
Ideal for secondary school and college biology studies. The Zenith Ultra-400 V.2 Series are purpose built teaching instruments finished to a very high standard, combining excellent optical performance and a very reliable, modern, user-friendly design with a mechanical construction designed to withstand the rigours of everyday heavy classroom use. All models feature high quality DIN standard optics, 'Anti-tamper' safety features include locked-on eyepiece and stage clips, slip-clutch on the coarse focus movement to prevent over-focusing and an adjustable focus-stop to prevent damage to glass microslides and objective lenses. **Highly Recommended**

### ULTRA-400M

#### Standard Specification:-

- Magnification range x40, x100, x400
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40 (0.65) (R = retractable)
- x10 Widefield Eyepiece with Pointer (18mm field)
- Stage Condenser (N.A. 0.65)
- Rotating 5-Hole Disc Diaphragm
- Triple Objective Turret
- Illumination via Plano-concave Mirror

Prod. Code	Description
60035	Ultra-400M Advanced Student Microscope



### ULTRA-400L

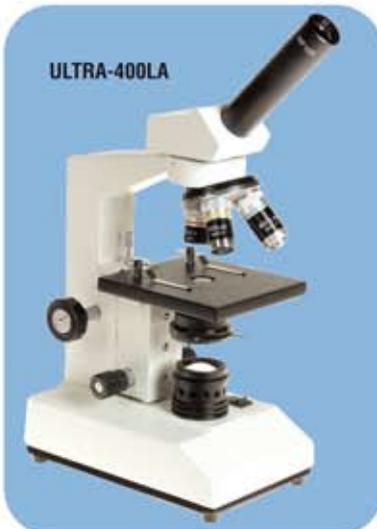
#### Standard Specification:-

- Magnification range x40, x100, x400
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65) (R = retractable)
- Stage Condenser (N.A. 0.65)
- Triple Objective Turret
- Rotating 5-Hole Disc Diaphragm
- Built-in 230v 20w illumination (colour corrected with daylight blue filter)

Prod. Code	Description
60032	Ultra-400L Advanced Student Microscope



ULTRA-400L



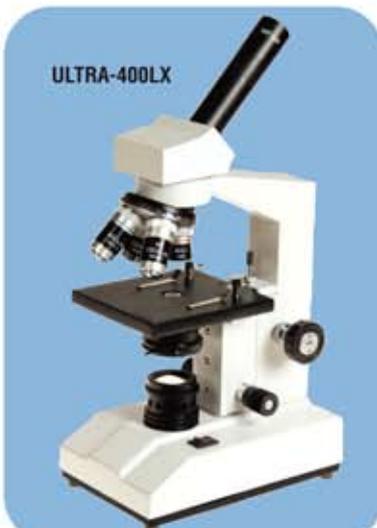
ULTRA-400LA

### ULTRA-400LA

#### Standard Specification:-

- Magnification range x40, x100, x400, (x1000 magnification achievable by upgrading with optional x100R (1.25) oil immersion objective)
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65) (R = retractable)
- x10 Widefield Eyepiece with Pointer (18mm field)
- ABBE Condenser (N.A. 1.25) in spiral Focusing Mount with Iris Diaphragm
- Quadruple Objective Turret (for extra objective)
- Built-in 230v 20w illumination (colour corrected with daylight blue filter)

Prod. Code	Description
60033	Ultra-400LA Advanced Student Microscope



ULTRA-400LX

### ULTRA-400LX

#### Standard Specification:-

- Magnification range x40, x100, x400, x1000
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65), x100R (1.25) oil immersion (R = retractable)
- x10 Widefield Eyepiece with Pointer (18mm field)
- ABBE Condenser (N.A. 1.25) in Spiral Focusing Mount with Iris Diaphragm
- Quadruple Objective Turret
- Built-in 230v 20w illumination (colour corrected with daylight blue filter)

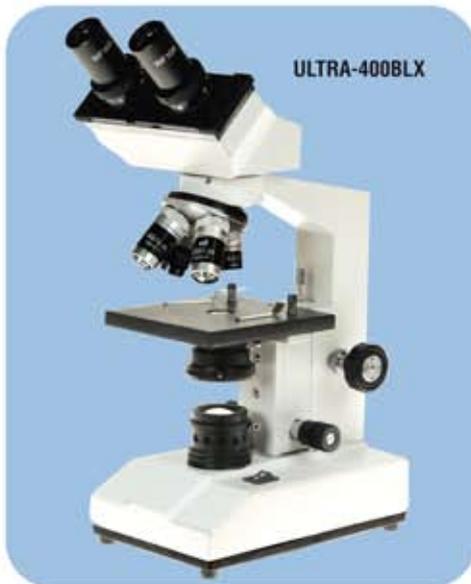
#### General Features (all models):-

- Separate smooth action Coarse & Fine Focusing controls
- Monocular Head inclined 45° and rotatable through 360° for convenient viewing and a permanently horizontal Stage
- Rack & Pinion focusing • Solid Brass Coarse Focus Dovetail Slide • Stage measures 120 x 114mm
- Supplied in Polystyrene Pack with Dust Cover • Overall dimensions 200 x 125 x 360mm • Weight Approx 3.1kg

### Accessories for Ultra-400 Series

Prod. Code	Description
60155	WF-5 x5 DIN Eyepiece
60153	H-7 x7 Huyghenian Eyepiece
60151	AM-16 x16 DIN Widefield Eyepiece
60156	WF-10S x10 DIN Widefield Eyepiece
60166	ME-10S x10 DIN Widefield Measuring Eyepiece
60186	OM-100 x100R (1.25) Oil DIN Objective*
60107	CT-11 Attachable Mechanical Stage
60116	SM-1 1mm Stage Micrometer (100x0.01mm Divs)
60227	SB-20 Replacement 240v 20w Bulb
	* Accessory for Ultra-400LA only

Prod. Code	Description
60034	Ultra-400LX Advanced Student Microscope



ULTRA-400BLX

### ULTRA-400BLX

#### Standard Specification:-

- Magnification range x40, x100, x400, x1000
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65), x100R (1.25) oil immersion (R = retractable)
- x10 Widefield Eyepiece with Pointer (18mm field)
- ABBE Condenser (N.A. 1.25) in Spiral Focusing Mount with Iris Diaphragm
- Quadruple Objective Turret
- Built-in 230v 20w illumination (colour corrected with daylight blue filter)

Prod. Code	Description
60036	Ultra-400BLX Advanced Student Microscope



### CT-11 MECHANICAL STAGE

Prod.Code 60107

## LUMAX SERIES ADVANCED STUDENT CORDLESS LED MICROSCOPES

Ideal for secondary school biology studies, this series of cordless microscopes incorporates innovative LED illumination technology into a proven microscope design, which features all the essential 'Anti-Tamper' features demanded by heavy school use. The microscope features a powerful rechargeable battery, located in the base, which is charged in situ with the included mains power adaptor. Charging time is typically 5-6 hours and when fully charged, the continuous discharge time is more than 50 hours. Under normal use, the LED bulb can last for more than 10,000 hours. The level of illumination is suitable even for high-power oil immersion work at x1000.

Prod. Code	Description
60012	Lumax-1 Rechargeable LED Microscope
60013	Lumax-2 Rechargeable LED Microscope



LUMAX-2

### LUMAX-1

- Magnification range: x40, x100, x400
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65)
- x10 Widefield eyepiece (with pointer)
- Stage Condenser (N.A. 0.65) with Rotating 5-hole disc diaphragm
- Triple Objective Turret

#### General features (Both Models)

- 9v 20w adjustable LED illumination
- Built-In 9v Rechargeable Battery
- Supplied with 230v 9w Battery Charger
- Separate Coarse and Fine Focusing
- Rack and Pinion Focusing
- Monocular Head Rotatable 360°
- 'Locked-On' Eyepiece and Stage Clips
- Slip-clutch on Focusing Mechanisms
- Height 360mm / Weight 3 Kg

### LUMAX-2

- Magnification range: x40, x100, x400, (x1000 possible with optional x100R Oil objective available separately)
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65)
- x10 Widefield eyepiece (with pointer)
- ABBE Condenser (N.A. 1.25) with Iris Diaphragm
- Quadruple Objective Turret



LUMAX-1

### Accessories for Lumax Series

Prod. Code	Description
60155	WF-5 x5 DIN Eyepiece
60153	H-7 x7 DIN Eyepiece
60151	AM-16 x16 DIN Widefield Eyepiece
60156	WF-10S x10 DIN Widefield Eyepiece
60166	ME-10S x10 DIN Widefield Measuring Eyepiece
60186	OM-100 100R (1.25) Oil Immersion Objective (for Lumax-2)
60116	SM-1 1mm Stage Micrometer (100x0.01mm Divisions)
60107	CT-11 Attachable Mechanical Stage



### UNIVERSAL DIGISCOPING ADAPTOR

This clever adaptor allows you to take pictures, with your compact digital camera, directly through the eyepieces of Microscopes, Telescopes and Spotting Scopes. Accepts most Compact Digital Cameras with tripod bush and will fit all Zenith Microscope models. Eyepiece Clamp Adjustable from 28mm-45mm. Prod.Code 50823 (Camera & Microscope not included)

Shown here in use.



MICROLAB-1000M

## ZENITH MICROLAB-1000 SERIES LABORATORY MICROSCOPES

Full sized laboratory standard instruments of modern ergonomic design, robust reliable construction and high optical performance. Ideal for use in schools, colleges and professional laboratories over a wide range of biological, medical, veterinary, bacteriological and agricultural applications. Four models are available, sharing a common stand, but with a choice of viewing heads and objective lenses.

### MICROLAB-1000M MONOCULAR LABORATORY MICROSCOPE

Supplied with Monocular Head and Achromatic Objectives

Prod. Code	Description
60040	Microlab-1000M Monocular Laboratory Microscope

#### Standard Specification:

- Magnification x40-x1000 (x1600 achievable by using optional x16 eyepieces)
- x10 DIN standard high eyepoint widefield eyepiece, field 18mm
- DIN standard, parfocal, parcentred Achromatic objectives x4 (0.10), x10 (0.25), x40R (0.65), x100R (1.25) Oil • Monocular Viewing Head, rotatable 360°
- Built-in 230v, 6v 20w halogen illumination with variable brightness control
- Additionally supplied with Plano-Concave Mirror in Mount for Field Work
- Bright field ABBE condenser (N.A. 1.25) with iris diaphragm and filter carrier
- Fully focusing rack & pinion substage
- Co-axial coarse and fine focusing with indexed scale and adjustable focus-tension
- Adjustable focus-stop • Quadruple nosepiece
- Smooth x-y mechanical stage with co-axial drop-down controls.
- Dust Cover • Dimensions 215x170x360mm • Weight 6kg



MICROLAB-1000B

### MICROLAB-1000B BINOCULAR LABORATORY MICROSCOPE

Supplied with Sliding Binocular Head and Achromatic Objectives

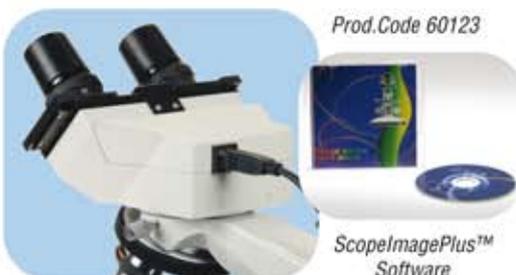
Prod. Code	Description
60041	Microlab-1000B Binocular Laboratory Microscope

#### Standard Specification:

- Magnification x40-x1000 (x1600 achievable by using optional x16 eyepieces)
- x10 DIN standard high eyepoint widefield eyepieces, field 18mm
- DIN standard, parfocal, parcentred Achromatic objectives x4 (0.10), x10 (0.25), x40R (0.65), X100R (1.25) Oil
- Binocular Head (sliding type), rotatable 360°
- Built-in 230v, 6v 20w halogen illumination with variable brightness control
- Additionally supplied with Plano-Concave Mirror in Mount for Field Work
- Bright field ABBE condenser (N.A. 1.25) with iris diaphragm and filter carrier
- Fully focusing rack & pinion substage
- Co-axial coarse and fine focusing with indexed scale and adjustable focus-tension
- Adjustable focus-stop • Quadruple nosepiece
- Smooth x-y mechanical stage with co-axial drop-down controls.
- Dust Cover • Dimensions 215x170x360mm • Weight 6.5kg

### BVH-1 Digital Binocular Head with Built-in 1.3MP CMOS Camera

Supplied with USB Cable and ScopelImagePlus™ Software (to upgrade Microlab-1000M/B/BSP)



Prod.Code 60123

ScopelImagePlus™ Software

#### Accessories for Microlab-1000 Series

Prod. Code	Description
60155	WF-5 x5 DIN Eyepiece
60153	H-7 x7 DIN Huyghenian Eyepiece
60151	AM-16 x16 DIN Widefield Eyepiece
60166	ME-10S x10 DIN Widefield Measuring Eyepiece
60116	SM-1 1mm Stage Micrometer (100 x 0.01mm Divisions)
60188	PL-4 x4 DIN Planachromatic Objective
60189	PL-10 x10 DIN Planachromatic Objective
60190	PL-25 x25 DIN Planachromatic Objective
60191	PL-40 x40R DIN Planachromatic Objective
60192	PL-100 x100R (Oil) DIN Planachromatic Objective
60122	PL-100DF x100R (Oil) DIN Dark Field Planachromatic Objectivewith Iris Diaphragm (use with DF-3)
60120	DF-2 Dark Field Condenser (Dry, N.A. 0.7-0.9)
60121	DF-3 Dark Field Condenser (Oil Immersion, N.A. 1.25-1.36)
60123	BVH-1 Digital Binocular Head (Sliding Type) with Built-in 1.3MP CMOS Camera, supplied with USB Cable and ScopelImagePlus™ Software (to upgrade Microlab-1000M/B/BSP)
60119	PA-6 Polariser & Analyser
60229	SB-25 Replacement 6v 20w Halogen Bulb



## MICROLAB-1000BSP BINOCULAR LABORATORY RESEARCH MICROSCOPE

Supplied with Seidentopf Binocular Head and Planachromatic Flat-Field Objectives

### Standard Specification:

- Magnification x40-x1000 (x1600 achievable by using optional x16 eyepieces)
- x10 DIN standard high eyepoint widefield eyepieces, field 18mm
- DIN standard, parfocal, parcentred Planachromatic objectives x4 (0.10), x10 (0.25), x40R (0.65), x100R (1.25) Oil
- Seidentopf Binocular Head, rotatable 360°
- Built-in 230v, 6v 20w halogen illumination with variable brightness control
- Additionally supplied with Plano-Concave Mirror in Mount for Field Work
- Bright field ABBE condenser (N.A. 1.25) with iris diaphragm and filter carrier
- Fully focusing rack & pinion substage
- Co-axial coarse and fine focusing with indexed scale and adjustable focus-tension
- Adjustable focus-stop
- Quadruple nosepiece • Smooth x-y mechanical stage with co-axial drop-down controls.
- Dust Cover • Dimensions 215x170x360mm • Weight 6.5kg

Prod. Code	Description
60042	Microlab-1000BSP Binocular Laboratory Research Microscope

## MICROLAB-1000BD 'DIGITAL' BINOCULAR LABORATORY MICROSCOPE

DISPLAY AND CAPTURE LIVE IMAGES DIRECTLY TO YOUR PC!!

Full-sized laboratory standard instrument incorporating a 1.3MP (1280x1024 pixels) built-in CMOS digital camera. Display and capture live images directly to your PC with ease, via a USB 2.0 cable using user-friendly ScopelImagePlus™ application software. The camera can be connected and disconnected freely, and when the camera is not in use, the instrument operates like a conventional microscope. Supplied with Achromatic Objectives.



Prod. Code	Description
60031	Microlab-1000BD Digital Binocular Laboratory Microscope

### Standard Specification:

- Magnification x40-x1000 (x1600 achievable by using optional x16 eyepieces)
- Paired x10 DIN standard high eyepoint widefield eyepieces, field 18mm
- DIN standard, parfocal, parcentred Achromatic objectives x4 (0.10), x10 (0.25), x40R (0.65), x100R (1.25) Oil • BVH-1 Binocular Head (sliding type) with Built-in 1.3MP CMOS Camera
- Built-in 230v, 6v 20w halogen illumination with variable brightness control
- Additionally supplied with Plano-Concave Mirror in Mount for Field Work
- Bright field ABBE condenser (N.A. 1.25) with iris diaphragm and filter carrier
- Fully focusing rack & pinion substage • Smooth x-y mechanical stage with co-axial drop-down controls
- Co-axial coarse and fine focusing with indexed scale and adjustable focus-tension
- Adjustable focus-stop • Quadruple nosepiece • Windows 2000/XP/VISTA/7 compatible software
- USB 2.0 Output, cable supplied • Dust cover • Dimensions 215x170x360mm • Weight 6.5kg



### DF-2 Dark Field Condenser (Dry, N.A. 0.7-0.9)

Can be used with all Microlab-1000 models using the standard Achromatic or Planachromatic x4, x10 and x40 objectives supplied.



Prod.Code  
60120

### DF-3 Dark Field Condenser (Oil Immersion, N.A. 1.25-1.36)

Can be used with all Microlab-1000 models using the standard achromatic or planachromatic x100 Oil Immersion objective supplied.



Prod.Code  
60121

### PL-100DF Dark Field Planachromatic Objective with Iris Diaphragm

Can only be used in conjunction with the DF-3 Oil Immersion Dark Field Condenser and gives optimum dark field performance for high magnification oil immersion study



Prod.Code  
60122

## STM-J x10 STEREOSCOPIC MICROSCOPE

A robust, reliable, easy-to-operate instrument of high optical quality. Its relatively low magnification, easy focusing & wide field of view makes it a useful educational tool for use in primary schools and field study centres, as well as having numerous applications in industry.

### Standard Specification:-

- Fixed Magnification x10 • Paired x10 Widefield Eyepieces (Locked-on) with Rubber Eyecups
- Achromatic Objective Pair x1 • Field of View 20mm • Working Distance 60mm • Dioptic adjustment provided on left eyepiece tube • Stereo Head Height adjustable on column to accommodate specimens of varying sizes
- Rack and Pinion focussing • Adjustable Inter-Pupillary Distance • Black / White Reversible Stage Plate
- With Stage Plate removed, the microscope can be used to examine specimens too large to put under the microscope in the conventional way by focusing through the aperture in the Base Plate • Locked-on Stage Clips
- Dust Cover • Supplied In polystyrene pack • Height approx 300mm • Weight approx 1.45kg

## STM-1 x20 STEREOSCOPIC MICROSCOPE

A routine inspection microscope combining high optical quality with robust, reliable construction and simplicity of operation, making it an extremely useful tool for use in Industry, Field Study Centres and throughout education from Primary level upwards. Particularly recommended for the younger user for the examination of everyday objects in fascinating yet 'understandable' detail.

### Standard Specification:-

- Magnification x20 • Paired x10 Widefield Eyepieces (Locked-on) with Rubber Eyecups • Field of View 10mm
- Achromatic Objective Pair x2 • Working Distance 70mm • Dioptic adjustment provided on left eyepiece tube
- Stereo Head Height adjustable on column to accommodate specimens of varying sizes • Rack and Pinion focussing
- Adjustable Inter-Pupillary Distance • Black / White Reversible Stage Plate • With Stage Plate removed, the microscope can be used to examine specimens too large to put under the microscope in the conventional way by focusing through the aperture in the Base Plate • Locked-on Stage Clips
- Supplied In polystyrene pack with Dust Cover • Height approx 300mm • Weight approx 1.45kg



Prod. Code	Description
60022	STM-J x10 Stereoscopic Microscope
60023	STM-1 x20 Stereoscopic Microscope

## STM-30 & STM-40 ILLUMINATED STEREOSCOPIC MICROSCOPES

Versatile instruments of robust metal construction and excellent optical performance ideal for use in Schools, Colleges & Field Study Centres as well as having wide applications in Industry. 'Anti-tamper' safety features include locked-on eyepieces and stage clips and a slip-clutch on the focus movement. Two models are available, each offering its own choice of magnifications and illumination systems:-



### MODEL: STM-30

- Dual magnification x10 & x30 • x10 widefield eyepieces (with rubber eyecups)
- Parfocal achromatic objective pairs x1 & x3 on revolving turret • 12v 10w top illumination
- Working distance 50mm • Field of view 5-15mm • Black/White Reversible Stage Plate
- Binocular head inclined 45° for comfortable viewing • Full inter-pupillary and dioptic adjustment provided
- Rack & Pinion focusing • Dust Cover
- Supplied in polystyrene pack
- Overall dimensions 170 x 115 x 300mm
- Weight approx 2.5kg

Prod. Code	Description
60024	STM-30 x10 / x30 Stereoscopic Microscope
60025	STM-40 x20 / x40 Stereoscopic Microscope

### MODEL: STM-40

- Dual magnification x20 & x40
- x10 widefield eyepieces (with rubber eyecups)
- Parfocal achromatic objective pairs x2 & x4 on revolving turret
- 12v 10w top & bottom illumination (independent or simultaneous)
- Working distance 45mm • Black/White Reversible and Frosted Glass Stage Plates provided
- Field of view 5-10mm • Binocular head inclined 45° for comfortable viewing
- Full inter-pupillary and dioptic adjustment provided • Rack & Pinion focusing • Dust Cover
- Supplied in polystyrene pack • Overall dimensions 190 x 117 x 310mm • Weight approx 2.8kg

Accessories		
60152	EP-15	x15 Widefield Eyepiece (2 req'd)
60222	SB-10	Replacement 12v 10w Bulb

## STL-80 x10/x20 LONG ARM STEREOSCOPIC MICROSCOPE

A very useful and versatile instrument for use throughout Education and Industry. Features 12v 10w illumination and two magnifications of x10 & x20 as standard. The long boom arm is adjustable to vary the viewing angle of the stereoscopic head.

The heavy microscope base ensures stability. The long working distance of 231mm and a field of view of 20mm make it ideal for operations such as dissection and fine assembly work.

### Standard Specification:-

- Magnification x 10 & x20 • Paired x10 & x20 Widefield Eyepieces • Achromatic Objective Pair x1
- Working Distance 231mm • Field Of View 20mm • Binocular Head inclined 45° for comfortable viewing
- Full interpupillary & dioptic adjustment provided
- 230v / 12v 10w Halogen Illumination
- Boom arm can be raised on its pillar to accommodate specimens of varying sizes
- Rack & Pinion focusing
- Supplied in polystyrene pack
- Overall dimensions 390 x 130 x 390mm
- Weight approx 6kg

Prod. Code	Description
60026	STL-80 x10 / x20 Long Arm Stereo Microscope

Accessories		
60152	EP-15	x15 Widefield Eyepiece (2 req'd)
60181	OG-1	x0.5 Objective Pair
60226	SB-12T	Replacement 12v 10w Tungsten Bulb



## ST-400 X20/X40/X50/X100 ADVANCED STEREOSCOPIC MICROSCOPE

The ST-400 is a versatile, full-sized stereoscopic microscope of sturdy construction, offering excellent optical performance and reliable mechanical operation. Supplied with two pairs of eyepieces (x10 & x25) and two objective pairs (x2 & x4) on a revolving turret. Four magnifications (x20, x40, x50 & x100) are available with the standard optics supplied, but more magnifications are achievable with the optional eyepieces and supplementary lenses available separately. The microscope features a dual-illumination system comprising halogen top-lighting (incident) and fluorescent substage illumination (transmitted).

### Standard Specification:

- Magnification Range: x20, x40, x50, x100
- Magnifications of x10-x200 possible with optional accessories
- Eyepieces supplied: x10 & x25 Widefield Pairs
- Achromatic Objectives Supplied: x2 & x4 Pairs on revolving turret
- Working Distance: 105mm
- Field of View: 10mm (20x), 8mm (40x), 5mm (50x), 3mm (100x)
- Incident Illumination: 6v 15w Halogen/Transmitted Illumination 230v 5w
- Focusing Mechanism: Rack and Pinion
- Interchangeable Glass and Black & White stage plates
- Approx Weight: 4.5kg / Maximum Height 390mm

Prod. Code	Description
60027	ST-400 Stereoscopic Microscope
Accessories	
60161	ST-15X x15 Widefield Eyepiece
60162	ST-20X x20 Widefield Eyepiece
60197	SL-6 x0.5 Supplementary Objective
60198	SL-7 x2 Supplementary Objective
60231	SB-15 Replacement 6v15w Halogen Bulb
60232	SB-5 Replacement 230v5w Fluorescent Bulb



## STZ-3500 & STZ-4500 x7-x45 ZOOM STEREOSCOPIC MICROSCOPES

High performance full sized professional zoom stereo microscopes ideal for use over a wide range of Industrial, Medical & Educational applications. Features x7-x45 continuous zoom facility providing delightfully sharp, crisp, upright stereoscopic images. The magnification can be increased up to x180 with addition of the optional eyepieces and supplementary objectives that are available. Two identical models are available with the choice of either binocular or trinocular viewing heads.

### Standard Specification:-

- Magnification range x7- x45 (Magnifications from x3.5 - x180 achievable by upgrading with the optional eyepieces and supplementary objective lenses listed below)
- Paired Widefield Eyepieces x10
- Zoom objective magnification ratio x0.7 - x4.5
- Binocular Head (STZ-3500 model) / Trinocular Head (STZ-4500 model)
- Working Distance 95mm
- Field Of View 4.4 - 28.6mm
- 230v / 12v 10w Halogen Incident Illumination (positionable)
- 230v / 12v 10w Halogen Transmitted Illumination
- Binocular Head inclined 45°, rotatable 360°
- Full interpupillary & dioptic adjustment provided
- Rack & Pinion focussing
- Stereo Head height adjustable on pillar to accommodate specimens of varying sizes
- Complete with Dust Cover
- Overall dimensions 250 x 160 x 410mm
- Weight approx 6.5kg



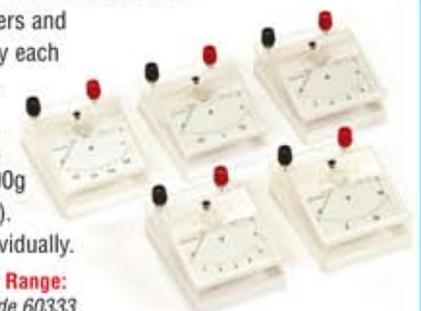
Prod. Code	Description
60028	STZ-3500 Binocular Zoom Stereo Microscope
60029	STZ-4500 Trinocular Zoom Stereo Microscope
Accessories	
60158	WF-15 x15 Widefield Eyepiece (2 req'd)
60160	WF-20 x20 Widefield Eyepiece (2 req'd)
60193	SL-1 x0.5 Supplementary Objective
60194	SL-2 x0.75 Supplementary Objective
60195	SL-3 x1.5 Supplementary Objective
60196	SL-4 x2 Supplementary Objective
60106	CA-8 SLR Camera Adaptor
60114	VA-4TV CCTV Adaptor*
60223	SB-10H Spare 12v 10w Halogen Bulb (transmitted)
60224	SB-10HR Spare 12v 10w Halogen Reflector Bulb (Incident)

\* For STZ-4500 only

## EDUCATIONAL AMMETERS & VOLTMETERS

A range of five moving coil, D.C. ammeters and voltmeters, widely used in schools. They each provide a measuring accuracy of +/- 4%. All models feature rugged construction, electrical safety and mechanical stability. They are lightweight at approximately 200g and are compact in size (80x100x48mm). Each model in the range is available individually.

- |                             |                              |
|-----------------------------|------------------------------|
| <b>D.C. Ammeter Range:</b>  | <b>D.C. Voltmeter Range:</b> |
| <b>0-1A</b> Prod.Code 60330 | <b>0-6V</b> Prod.Code 60333  |
| <b>0-2A</b> Prod.Code 60331 | <b>0-15V</b> Prod.Code 60334 |
| <b>0-5A</b> Prod.Code 60332 |                              |



**FOTOMATE VP-106 2-WAY TRIPOD**

Provides an economical platform for video cameras, DSLR's and compact digital cameras, as well as for spotting scopes up to 80mm and many binoculars up to 80mm in diameter. Payload capacity 4kg.

- 2-Way Oil Fluid Panhead
- Payload Capacity: 4kg
- Adjustable Panhead Tension & Lock
- Multi-Position R/H Pan Handle
- QR Plate with 1/4" Attachment Screw and Video Pin
- Min/Max Height: 58cm to 152cm
- Geared Centre Column
- 360° Panning, -85° Forward Tilt, +90° Elevation
- 23mm Diameter 3-Section Aluminum Legs
- Adjustable Rubber Feet with Metal Spikes
- Bubble level
- Weight: 1.33kg
- Nylon Carrying Case



**Payload 4kg  
Height 152cm**

Fotomate VP-106 Tripod *Prod.Code 50405*  
Spare Quick Release Plate *Prod.Code 50414*

**FOTOMATE VT-5006 MEDIUM DUTY 2-WAY TRIPOD**

Suitable for video cameras, DSLR's and compact digital cameras, as well as for spotting scopes up to 100mm and many binoculars up to 100mm in diameter. Payload capacity 5kg.

- 2-Way Oil Fluid Panhead
- Adjustable Panhead Tension & Lock
- Multi-Position R/H Pan Handle
- Payload Capacity: 5kg
- QR Plate with 1/4" Attachment Screw and Video Pin
- Min/Max Height: 61cm to 156cm
- Geared Centre Column
- 360° Panning, -50° Forward Tilt, +90° Elevation
- 26mm Diameter 3-Section Aluminum Legs
- Adjustable Rubber Feet with Metal Spikes
- Bubble level
- Weight: 1.89kg
- Nylon Carrying Case



**Payload 5kg  
Height 156cm**

Fotomate VT-5006 Tripod *Prod.Code 50404*  
Spare Quick Release Plate *Prod.Code 50413*

**FOTOMATE VT-6006 HEAVY-DUTY 2-WAY TRIPOD**

Suitable for video cameras, DSLR's and compact digital cameras, as well as for spotting scopes up to 100mm and many binoculars up to 100mm in diameter. Payload capacity 6kg.

- 2-Way Heavy Oil Fluid Panhead
- Adjustable Panhead Tension & Lock
- Multi-Position R/H Pan Handle
- Payload Capacity: 6kg
- QR Plate with 1/4" Attachment Screw and Video Pin
- Min/Max Height: 70cm to 172cm
- Geared Centre Column
- 360° Panning, -60° Forward Tilt, +90° Elevation
- 29mm Diameter 3-Section Aluminum Legs
- Adjustable Rubber Feet with Metal Spikes
- Bubble level
- Weight: 2.45kg
- Nylon Carrying Case



**Payload 6kg  
Height 172cm**

Fotomate VT-6006 Tripod *Prod.Code 50403*  
Spare Quick Release Plate *Prod.Code 50412*

**FOTOMATE VT-2900 EXTRA HEAVY-DUTY SEMI-PROFESSIONAL 2-WAY TRIPOD**

An excellent semi-professional standard tripod for video cameras & DSLR's, as well as for spotting scopes, telescopes and most large observation binoculars. Features a maximum payload capacity of 8kg, excellent stability and a maximum height of 177cm. The superb extra heavy-duty 2-Way tripod head is extremely robust and well-engineered. Operation is extremely smooth & well damped.

- 2-Way Extra Heavy-Duty Oil Fluid Panhead
- Adjustable Panhead Tension & Lock
- Multi-Position L/R Mountable Pan Handle
- Payload Capacity: 8kg
- QR Plate with 1/4" & 3/8" Attachment Screws and Video Pin
- Security Retention on QR Plate
- Min/Max Height: 82cm to 177cm
- Geared Centre Column
- 360° Panning, -65° Forward Tilt, +90° Elevation
- 29mm Diameter 3-Section Aluminum Legs
- Rubber Feet
- Bubble level
- Weight: 4.79kg
- Nylon Carrying Case



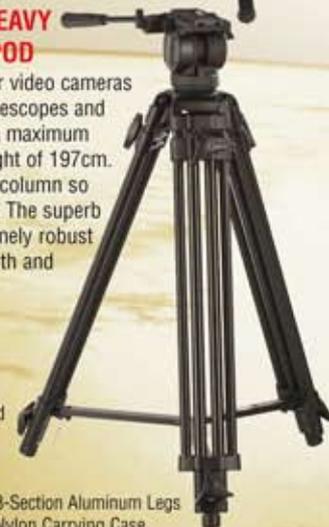
**Payload 8kg  
Height 177cm**

Fotomate VT-2900 Tripod *Prod.Code 50402*  
Spare Quick Release Plate *Prod.Code 50411*

**FOTOMATE VT-680-222R EXTRA HEAVY DUTY PROFESSIONAL 2-WAY TRIPOD**

An excellent, professional standard tripod for video cameras & DSLR's, as well as for spotting scopes, telescopes and most large observation binoculars. Features a maximum payload capacity of 8kg and a maximum height of 197cm. This tripod does not feature a geared centre column so the tripod offers greater rigidity and stability. The superb extra heavy-duty 2-Way tripod head is extremely robust and well-engineered. Operation is very smooth and well damped under maximum load.

- 2-Way Extra Heavy-Duty Oil Fluid Panhead
- Payload Capacity: 8kg
- Adjustable Panhead Tension & Lock
- Multi-Position L/R Mountable Pan Handle
- QR Plate with 1/4" & 3/8" Attachment Screws and Video Pin
- Security Retention on QR Plate
- Min/Max Height: 93.5cm to 197cm
- 360° Panning, -65° Forward Tilt, +90° Elevation
- 3-Section Aluminum Legs
- Rubber Feet
- Bubble level
- Weight: 4.78kg
- Nylon Carrying Case



**Payload 8kg  
Height 197cm**

Fotomate VT-680-222R Tripod *Prod.Code 50400*  
Spare Quick Release Plate *Prod.Code 50411*

**FOTOMATE VT-990-222R SUPER HEAVY-DUTY PROFESSIONAL 2-WAY TRIPOD**

An outstanding professional standard tripod for video cameras & DSLR's, as well as for spotting scopes, telescopes and most large observation binoculars. Features a huge payload capacity of 20kg and a maximum height of 200cm. This tripod does not feature a geared centre column so the tripod offers greater rigidity and stability. The superb super heavy-duty 2-Way tripod head, is extremely robust and well-engineered. Operation is sublimely smooth and well damped, managing heavy loads with consummate ease.

- 2-Way Super Heavy-Duty Oil Fluid Panhead
- Payload Capacity: 20kg
- Adjustable Panhead Tension & Lock
- Multi-Position L/R Mountable Pan Handle
- QR Plate with 1/4" & 3/8" Attachment Screws & Video Pin
- Security Retention on QR Plate
- Min/Max Height: 95cm to 200cm
- 360° Panning, -85° Forward Tilt, +85° Elevation
- 3-Section Aluminum Legs
- Rubber Feet
- Bubble level
- Weight: 5.85kg
- Nylon Carrying Case



**Payload 20kg  
Height 200cm**

Fotomate VT-990-222R Tripod *Prod.Code 50401*  
Spare Quick Release Plate *Prod.Code 50415*