

EVOSTAR REFRACTORS



MODEL
SWED72

2.8 Inch

MODEL
SWBDED80-OTA

3 Inch

MODEL
SWBDED100-OTA

4 Inch

MODEL
SWBDED120-OTA

5 Inch

KEY FEATURES

- ▶ User level: intermediate & advanced users
- ▶ Highly recommended for astrophotography
- ▶ Two element ED refractor
- ▶ High transmission coatings
- ▶ Fully baffled and blackened
- ▶ Quality optical glass
- ▶ Dual speed focuser.

The "ED" refers to the 2-element fully multi-coated extra-low dispersion lens made of high quality optical glass.

It results in highly colour corrected and high contrast images while still offering outstanding value for money.

AUSTRALIA'S MOST LOVED REFRACTOR

The Sky-Watcher EVOSTAR ED Refractors are some of the most popular telescopes across the world for serious astronomers seeking an instrument that excels for both visual and photographic use.



MODEL	APERTURE	FOCAL LENGTH	FINDERSCOPE	RRP
SWED72	2.8"/72mm	420mm	Not Included	\$899.99
SWBDED80-OTA	3"/80mm	600mm	9x50mm	\$1,749.99
SWBDED100-OTA	4"/100mm	900mm	9x50mm	\$1,999.99
SWBDED120-OTA	5"/120mm	900mm	9x50mm	\$4,249.99
SWBDED150-OTA	6"/150mm	1200mm	Not Included	\$5,249.99
SWBDED150DX-OTA	6"/150mm	1200mm	Not Included	\$6,999.99



EVOSTAR REFRACTORS



MODEL
SWBDED150-OTA

6 Inch

MODEL
SWBDEX150-OTA

6 Inch

0.85 Focal Reducer
(Optional Accessory)
SWA-BDFF80ED



KEY FEATURES

- ▶ Dual speed focuser
- ▶ Suitable for astrophotography
- ▶ View solar system in high definition
- ▶ Metallic high-transmission coatings
- ▶ Comes with an aluminium case.



Carry case included

RECOMMENDED MOUNTS

- ▶ EQ5
- ▶ AZEQ6
- ▶ EQ6-R
- ▶ NEQ6 Pro
- ▶ AZEQ5
- ▶ HEQ5

EVOSTAR REFRACTOR - DELUXE

As the largest quality refractor in its price range, the eagerly awaited Sky-Watcher 150/1200 Evostar OTA means a big jump in light gathering power with the same resolution as the rest of the Sky-Watcher Evostar telescopes. Observe fainter details of the Moon and the fine structures of Saturn, Jupiter and Mars.

The EVOSTAR ED150 DX (Deluxe) add a 3.4" rack and pinion focuser capable of holding even full frame DSLR cameras and upgraded rings and cradle.

ED50 GUIDESCOPE EVOGUIDE V1

The new Sky-Watcher Evoguide 50 ED is a truly powerful guidescope. It can be used as a finderscope, small lens or a small richfield telescope for travelling.


- ▶ High quality 50mm ED Glass
- ▶ 242mm (f/4.8) focal length
- ▶ Advanced colour correction
- ▶ Helical Focuser



Equipped with finder bracket

MODEL	APERTURE	FOCAL LENGTH	RRP
SWED50	2"/50mm	242mm	\$499.99
SWED50-V2	2"/50mm	242mm	\$549.99
SWA-ED50FF	ED50 Flattener (Optional Accessory)		\$149.99


2022 | **ASTRO**
PHOTOGRAPHER
OF THE YEAR




GOLD - NIGHTSCAPE
LAST LIGHT
Simon Jarman



SILVER - DEEP SPACE
#34 ROSETTE
Jacob Heppell



SILVER - NIGHTSCAPE
THE UNIVERSE IS YOURS
Joel Stafford



SILVER - SOLAR SYSTEM
THE RUNNING MAN NEBULA
Katherine Miller



COMMENTS FROM JUDGE TREVOR JONES

I have never seen this intense nebula region captured in such delicate, careful detail before. The spectrum of light values were expertly preserved, creating unimaginable depth and clarity. An absolute masterpiece.



GOLD WINNER - DEEP SPACE / OVERALL WINNER LUMINOUS TARANTULA NEBULA

Amrit Prasad

Image details:

The Luminous Tarantula Nebula, packed full of so many interesting details it is hard not get spaced out appreciating this region. After 3 months of constant processing and upskilling, I was finally able to present this version of the image. Difficult for many reasons but a big one was the massive dynamic range between the outer parts and that bright core region where so many new stars are born. A lot of time and attention was put into lifting up details tastefully particularly in the core, adjusting colours while preserving the scientifically correct structures and then putting it together so as a whole it (hopefully) gives viewers the same feeling it gives to me.

WHAT IS FOV - FIELD OF VIEW?

UNLOCKING THE DEPTHS OF SPACE WITH SKYWATCHER TELESCOPES:

Navigating the cosmos requires the right tools. With your telescope's Field of View (FOV), you can determine how much of the universe is revealed at any given moment. Your Skywatcher telescope, equipped with these two eyepieces, is your reliable partner in space exploration.

TAILOR YOUR SPACE EXPLORATION:

- ▶ **The 10mm Eyepiece - Precision and Focus:** When you're aiming to study specific cosmic objects, like the craters of the Moon or the rings of Saturn, the 10mm eyepiece provides the magnification you need. It brings distant galaxies, nebulae, and stars into sharper view, making it ideal for those who crave details.
- ▶ **The 20mm Eyepiece - Broad and Expansive Views:** For observers eager to appreciate a wider slice of the sky, the 20mm eyepiece is the tool. Perfect for capturing large swaths of the Milky Way or spotting clusters of stars, its broader perspective ensures you won't miss the bigger picture.

What You'll See With Different Sized Eyepieces & Telescopes When Viewing A Full Moon.

127 AZ GTI MAKSTOV GOTO (FOCAL LENGTH = 1500MM)



25mm Eyepiece
(1500/25 = 60x Magnification)



10mm Eyepiece
(1500/10 = 150x Magnification)

150P CLASSIC DOBSONIAN (FOCAL LENGTH = 1200MM)

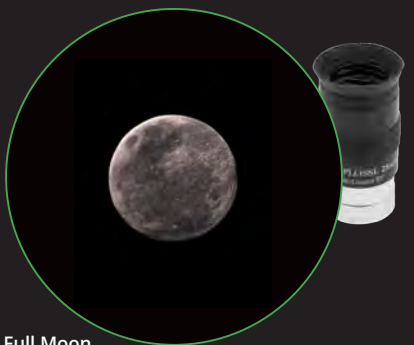


25mm Eyepiece
(1200/25 = 48x Magnification)



10mm Eyepiece
(1200/10 = 120x Magnification)

90/900 EQ1 REFRACTOR (FOCAL LENGTH = 900MM)



25mm Eyepiece
(900/25 = 36x Magnification)



10mm Eyepiece
(900/10 = 90x Magnification)



EVOLUX REFRACTORS

OPTICAL TUBE ASSEMBLY

MODEL
SWEVOLUX-62ED

62mm



PAYLOAD
2.5KG

MODEL
SWEVOLUX-82ED

82mm



PAYLOAD
2.5KG

A VALUE-FOR-MONEY FAVOURITE

The Sky-Watcher family of EvoStar ED telescopes started with the 80ED, a value for money favourite of astronomers all over the world. The EVOLUX 82ED continues this tradition.

KEY FEATURES

- ▶ User level: intermediate & adv. users
- ▶ Highly recommended for astrophotography
- ▶ Unparalleled levels of optic performance for an ED telescope
- ▶ Updated 2-lens element design
- ▶ 2.5 kg weight
- ▶ New ED glass
- ▶ 61mm / f 6.5 (f5.8 with optional reducer)
- ▶ New optional re-designed dedicated reducer/field flattener for wider field of view and faster imaging
- ▶ Retractable integrated dewshield for improved handling
- ▶ Precision 61mm (2.4") dual-speed focuser
- ▶ High transmission coatings
- ▶ Fully baffled and blackened
- ▶ Dual speed focuser.



MODEL	APERTURE	FOCAL LENGTH	RRP
SWEVOLUX-62ED	62mm	400mm	\$899.99
SWEVOLUX-82ED	82mm	530mm	\$1,749.99

MODEL	DESCRIPTION	RRP
SWA-EVOLUX62-FD	EVOLUX FIELD FLATTENER 62	\$649.99
SWA-EVOLUX82-FD	EVOLUX FIELD FLATTENER 82	\$649.99
SWA-EVOLUXHANDLE	HANDLE ACCESSORY FOR EVOLUX	\$49.99



ESPRIT ED TRIPLET REFRACTORS



MODEL
SWESPRIT100

5 Inch



CLOSE UP DETAILS OF
MODEL SWESPRIT100



CLOSE UP DETAILS OF
MODEL SWESPRIT80



MODEL
SWESPRIT80

3 Inch



KEY FEATURES

- ▶ 3-Element objective lens,
- ▶ 3" CNC machined 11:1 rotatable dual-speed
- ▶ Zero detectable colour fringing even on bright objects
- ▶ High-transmission lens coatings
- ▶ Knife-edge baffled optical system
- ▶ High-precision mechanical components
- ▶ Aluminium OTA material
- ▶ Retractable dew shield.

BEST OF THE BEST!

Sky-Watcher Esprit telescopes have been designed from the ground up for advanced astrophotography. Expect the kind of imaging quality and performance found in telescopes costing thousands more!

ESPRIT ED PROFESSIONAL

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.

DOUBLET OR TRIPLET REFRACTOR - WHAT'S THE DIFFERENCE?

Sky-Watcher Esprits have a third, quality element in their lens for the ultimate in colour correction and increased contrast.

MODEL	APERTURE	FOCAL LENGTH	CORRECTED FIELD	RRP
SWESPRIT80	3"/80mm	400mm	33mm	\$3,449.99
SWESPRIT100	4"/100mm	550mm	40mm	\$4,599.99
SWESPRIT120	5"/120mm	840mm	44mm	\$5,749.99
SWESPRIT150	6"/150mm	1050mm	44mm	\$10,924.99

ESPRIT ED TRIPLET REFRACTORS



MODEL
SWESPRIT120

5 Inch

MODEL
SWESPRIT150

6 Inch



CLOSE UP DETAILS OF
MODEL SWESPRIT120



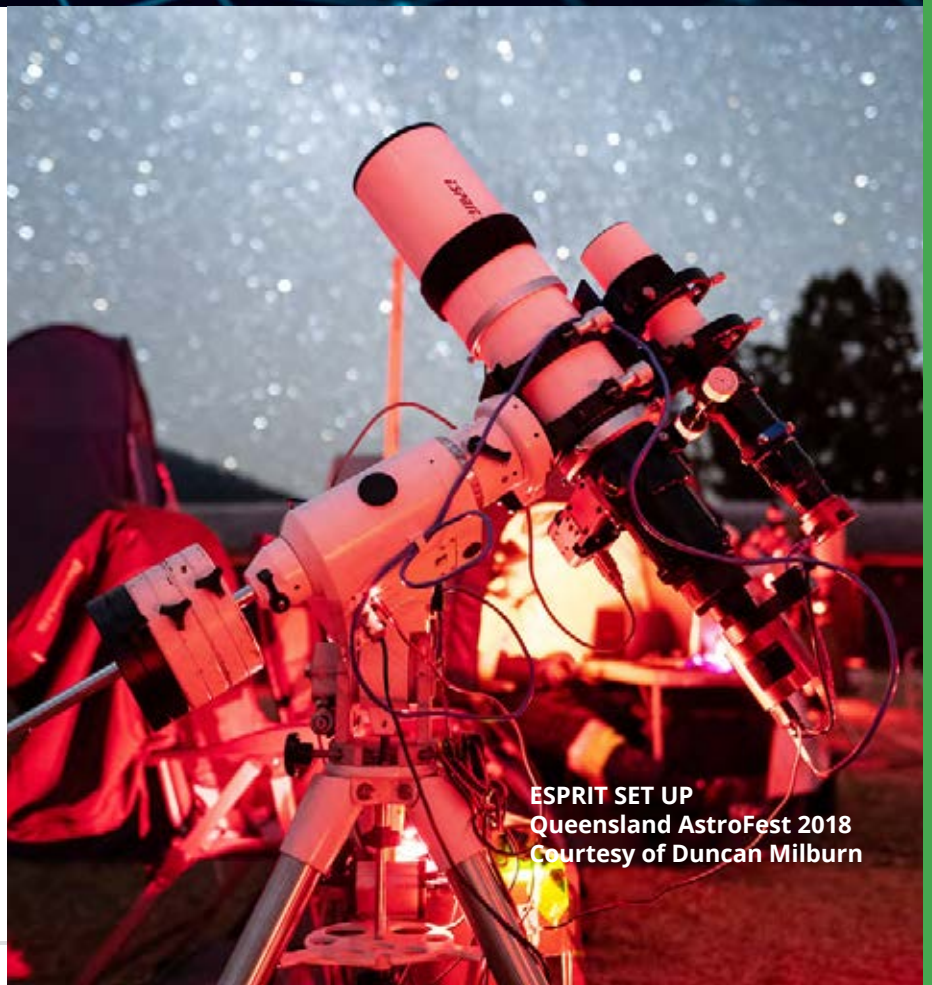
CLOSE UP DETAILS OF
MODEL SWESPRIT150

ESPRIT 0.77X FLATTENER/ REDUCERS



- ▶ Three lens optical design
- ▶ Full frame compatible
- ▶ M48 x 0.75 adapter
- ▶ >75mm back focus
- ▶ 2-inch filter compatible.

MODEL	RRP
SWA-ESPRIT120FRF	\$749.99
SWA-ESPRIT150FRF	\$749.99



ESPRIT SET UP
Queensland AstroFest 2018
Courtesy of Duncan Milburn

SKY-WATCHER TECHNOLOGIES

SYNSCAN APP & SYNSCAN APP PRO

CONTROLLING YOUR SKY-WATCHER MOUNT VIA WiFi

Many Sky-Watcher telescopes and mounts can be controlled via WiFi using either a built-in or optional WiFi Adaptor.

(You can upgrade your Sky-Watcher telescope or mount that currently uses a plug-in SynScan hand controller by simply replacing the hand controller with the Sky-Watcher WiFi module.)

SW-WIFI



Connect your Sky-Watcher mount to the SynScan App with the WiFi Adaptor, Optional Accessory.



HOW IT WORKS



The Sky-Watcher WiFi module creates its own wireless network that connects to your phone, tablet or PC. Sky-Watcher offers free apps available from the iTunes for iPhones and iPads as well as the Google Play Store for Android devices. You can also download a PC version from the Sky-Watcher website.

Once installed, the Sky-Watcher SynScan app offers assistance for alignment, telescope GOTO positioning, astrophotography and helps you to identify what is in the sky. It also provides a way to link a host of third party apps such as SkySafari Plus and Pro to your mount.

This opens up a wide library of apps that are ideal for beginners learning the skies, and assist with sophisticated imaging and observation session planning tools.

Please note that the same Synscan software app is used to control the entire range of Sky-Watcher mounts and telescopes ranging all the way from the Sky-Watcher GTi mount through to the Sky-Watcher EQ8 mount or even 20" Stargate GOTO telescope. The same GOTO and tracking and third-party app support features are available across all supported Sky-Watcher products.

SCOPEWIZARD APP

The ScopeWizard app is a collection of useful and common numeric calculators for telescopes, eyepieces, and cameras for use by amateur astronomers. There are numerous formulas for computing the specifics of your telescope, eyepieces, and camera's characteristics when used together.

ScopeWizard brings those formulas together in one handy place. An included database of telescopes, eyepieces, and cameras can be used to mix and match your equipment, or you can enter custom values manually.



Available from your app store



MOUNTS

THE PINNACLE OF ASTRONOMICAL EXCELLENCE: SKY-WATCHER MOUNTS



MODEL SHOWN:
STAR ADVENTURER GT1

A telescope's soul is its mount, and Sky-Watcher's equatorial mounts stand unrivaled, celebrated as the most awarded mount system in the world for the past decade. This global recognition is not just an accolade; it's a testament to Sky-Watcher's relentless pursuit of perfection, delivering unparalleled stability and precision.

The connection between a telescope and its observer hinges on a mount's ability to offer a smooth, sturdy, and unshakeable foundation. Sky-Watcher mounts elevate this connection, transforming visual observing from mere viewing into a sublime celestial experience, and rendering astrophotography a precise and graceful art.

Engineered to counter the Earth's rotation, Sky-Watcher's mounts are more than instruments; they are a synergy of technology and craftsmanship that enables accurate tracking of celestial wonders. Advanced computerised electronics are embedded, allowing modern astronomers to locate and seamlessly track objects across the night sky.

The versatility of Sky-Watcher mounts extends beyond our award-winning design; they connect effortlessly with telescope tubes through an industry-standard dovetail mounting rail. This universal compatibility embraces telescopes from leading vendors like Celestron, Meade, Televue, and more.

Whether you're a hobbyist enchanted by the universe or a dedicated astro-imager, Sky-Watcher offers a mount that resonates with your aspirations, each designed with an unwavering commitment to quality, functionality, and innovation.

Choose the mount that has set the world standard, recognised and awarded for its excellence. Choose Sky-Watcher, where every mount is more than a product; it's a partnership in exploration, a commitment to quality, and a gateway to the cosmos.

THE FOUNDATION

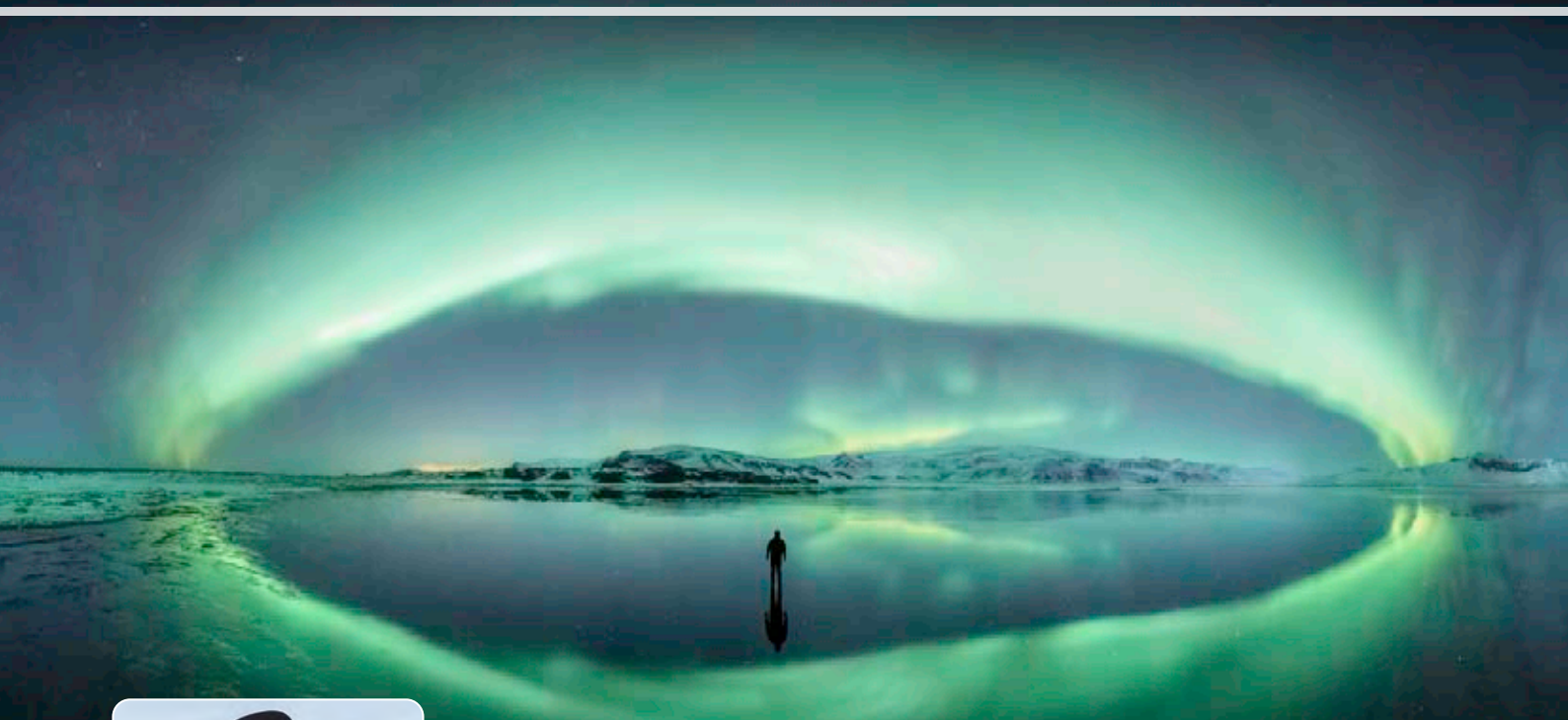
BRAND AMBASSADOR - PHIL HART



The Great American Eclipse

Phil Hart is Australia's leading astrophotography expert. He has been enjoying and photographing the night sky for nearly twenty years. His award winning photos have been published in books, magazines and popular websites around the world.

BRAND AMBASSADOR - LARRYN RAE



Aurora Vortex

Larryn is a full-time freelance photographer and filmmaker based in Auckland, New Zealand. He is known for his dedication for capturing landscapes and nightscapes around New Zealand and has built a solid reputation for his unique nightscapes in some of the wildest and remotest parts of the country.

EQUATORIAL PRO MOUNTS



MODEL
SWHEQ5PRO-DUAL



MODEL
SWEQ6-R
(BELT DRIVEN)



MODEL
SWEQ35-GOTO
SHOWING
OPTIONAL EXTRAS



KEY FEATURES

- ▶ Positioning accuracy up to 5 arc minutes
- ▶ Internal DC stepper motors
- ▶ ST4 auto guider interface
- ▶ Sturdy stainless steel tripod
- ▶ Programmable permanent periodic error correction
- ▶ Sidereal, lunar and solar tracking
- ▶ EQ6-R and AZEQ6 now include USB ports.



BRIGHT STAR
ALIGNMENT



SYNSCAN GOTO



DID YOU KNOW?

EQ35- GOTO can be modified to be used as single RA drive 10kg payload mount, with additions of the Star Adventurer accessories.

LIGHTWEIGHT, PORTABLE & QUICK TO SET UP

The Sky-Watcher EQ mount series has been highly regarded by all levels of observers and astrophotographers for many years. All models feature highly accurately tracking and GOTO positioning. The bundled SynScan hand controller has all the features you need for initial setup and alignment.

Have your telescope attached to a Sky-Watcher EQ mount and automatically slew to thousands of stars, nebulae, galaxies, planets and other objects of interest. The optional Sky-Watcher WiFi Adaptor will let you control the mount from your smartphone, tablet or PC and lets you integrate your telescope with a range of specialised third party apps and programs for all types of users.

For imaging, these mounts feature an autoguider port to increase the accuracy of tracking during longer exposures. Sky-Watcher EQ mounts accept telescopes with standard "V" or "D" mounting rails depending on the model.

UPGRADE

- ▶ Extra counterweights
- ▶ Optional WiFi adaptor
- ▶ Aluminium case for NEQ6 models
- ▶ Power tank

MODEL	PAYLOAD	RRP
SWEQ35-GOTO	Up to 5.5kg	\$1,499.99
SWEQ5PRO	Up to 9kg	\$1,699.99
SWHEQ5PRO-DUAL	Up to 15kg	\$2,499.99
SWNEQ6PRO	Up to 18kg	\$2,749.99
SWEQ6-R	Up to 22kg	\$3,499.99

AZGT PRO MOUNTS



MODEL
SWAZEQ5GTP

PAYLOAD
15KG



CLOSE UP DETAILS OF MODEL
SWAZEQ6GT

MODEL
SWAZEQ6GT

PAYLOAD
22KG



BRIGHT STAR
ALIGNMENT



SYNSCAN GOTO



FREEDOM FIND

KEY FEATURES

- ▶ Equatorial and Alt-Azimuth
- ▶ Positioning accuracy up to 5 arc minutes
- ▶ Hybrid stepper motor drives on both axes
- ▶ 4.2° / second max speed
- ▶ Belt driven
- ▶ ST4 auto guider interface
- ▶ Mounts now include USB ports.

DID YOU KNOW?

The Sky-Watcher WiFi Adaptor and those Sky-Watcher telescopes with built-in Wifi have configurable networking. This lets you either establish their own WiFi network that your smartphone or tablet can connect to in the field, or integrate with your existing home WiFi network.

EQUATORIAL PLUS ALT-AZIMUTH

An equatorial mount moves the telescope in an arc, allowing the user to track objects much more easily as they move across the sky.

This means you only have to adjust a single axis to track the object to keep it in your field of view, making an equatorial mount a better option for astrophotography.

The AZGT series combines the advantages of the equatorial mount with the simplicity of the alt-azimuth system. They have a hybrid design usable in both these configurations.

The equatorial mode is ideal for astrophotography while the alt-azimuth configuration is more practical for observation as polar alignment is not required.

Each of these telescopes includes counterweights and a SynScan hand controller. The SWAZEQ6GT model includes a built in polar scope. All models are compatible with the WiFi Adaptor.

MODEL	PAYLOAD	RRP
SWAZEQ5GTT	Up to 15kg	\$3,249.99
SWAZEQ5GTP	Up to 15kg	\$3,249.99
SWAZEQ6GT	Up to 22kg	\$4,499.99

CQ350 PRO



Ports: 4 USB ports, 1 shutter release port, 1 power input port, 3 power output ports, 1 hand controller port and 1 AUTO GUIDER port.



MODEL
CQ350



This exceptional mount promises an observatory-class setup that isn't just a tool but a masterful piece of engineering, finely tuned to the universe's rhythm. Its precision and functionality make it a must-have for those seeking to push the boundaries of exploration and imaging.

Whether capturing distant galaxies or detailed planetary phenomena, the CQ350 stands as a testament to Sky-Watcher's dedication to innovation and excellence.

BUILT-IN CABLE MANAGEMENT

The CQ350 features built-in cable management. This removes cable drag from hanging cables and reduces the risk of cables getting caught during imaging session.

CQ350

Introducing Sky-Watcher's all-new CQ350: a marvel of precision engineering, delivering a fully-GoTo equatorial platform that embodies the pinnacle of astronomical achievement.

- ▶ Product weight: 14.4kg (Mount Only, without counterweight and counterweight shaft)
- ▶ Payload: 35kg.
- ▶ RA worm wheel teeth number: 308. DEC worm wheel teeth number: 288
- ▶ Latitude adjustment range: 0-70 degree.
- ▶ Motors High precision stepper motor.
- ▶ Drive mode between worm gear and motor: synchronous wheel and synchronous belt.
- ▶ Spring loaded worm gears
- ▶ Function: Automatic identification initial position
- ▶ Working voltage: DC12V / Electric current: 2A
- ▶ Ports: 4 USB ports, 1 shutter release port, 1 power input port, 3 power output ports, 1 hand controller port and 1 AUTO GUIDER port.
- ▶ New designed tripod, SWA-TRICQ350 (Optional)
- ▶ Compatible with EQ8 pier tripod - SWA-TRIEQ8 (Optional)
- ▶ External polar scope, SWA-POLAR-EQ8 (Optional).

MODEL	DESCRIPTION	RRP
SWCQ350	CQ350 MOUNT + counterweight	\$5,499.99
SWA-TRICQ350	CQ350 tripod	\$1,749.99
SWA-TRIEQ8	PIER TRIPOD FOR EQ8 / CQ350	\$2,749.99

EQ8-R & EQ8-RH


BUILT-IN CABLE MANAGEMENT

- ▶ USB hub (4 ports)
- ▶ 2.1mm Power port (3 ports)
- ▶ 3 serial ports on the back of the saddle.

SYNSCAN GOTO SYSTEM

- ▶ Full control of R.A. and Dec axes
- ▶ 9 slew speeds
- ▶ 5 arcminute pointing precision.

MODEL
SWEQ8-R



BETTER BALANCE & MODERN FEATURES



EQ8-R & EQ8-RH



KEY FEATURES

- ▶ 50kg payload German equatorial mount
- ▶ Heavy duty adjustable pier tripod (0.75 - 1 m)
- ▶ Super smooth periodic error curve
- ▶ Permanent Periodic Error Correction (PPEC)
- ▶ Belt driven transmission to limit R.A. backlash
- ▶ Whisper slew
- ▶ Auto-home function
- ▶ D style telescope connection
- ▶ Freedom Find™ auxiliary encoders
- ▶ R.A. worm gear indexer
- ▶ R.A. and DEC indexers.

OPTIONAL ACCESSORIES

- ▶ EQ8 Counter Weight EQ8-CWEIGHT
- ▶ Polar Scope EQ8 EQ8-POLAR
- ▶ Pier Tripod For EQ8 / CQ350

OBSERVATORY CLASS

The Sky-Watcher EQ8 is the most advanced Sky-Watcher mount with a staggering payload of 50kg and sub arcsecond tracking accuracy, the ultimate choice for professional astrophotographers. This mount has oversized gears and a non rotatable counterweight bar for greater stability, the D style saddle is 200mm long for a more stable connection with telescopes and the grip is secured by three knobs.

The exceptional SynScan GOTO system allows full control of both R.A. and Dec. axes with 9 slew speeds and 5 arcminute pointing precision, allowing you to quickly and accurately locate objects. The GOTO system can automatically slew the telescope on command toward 42,900 memorised celestial planets, stars, nebulae, galaxies and clusters. The Deep Sky Tour function suggests a list of the most interesting deep sky objects currently visible, so even the novice astronomer can easily observe faint objects at the touch of a button.

The EQ8-R provides the next generation of Sky-Watcher's popular high capacity mount, the EQ8.

The R models offer a refined design to allow for better balance and more modern features to cater to today's high end imagers.

- ▶ USB hub (4 ports)
- ▶ 2.1mm Power port (3 ports)
- ▶ 3 serial ports on the back of the saddle
- ▶ The EQ8-R features built-in cable management. This removes cable drag from hanging cables and reduces the risk of cables getting caught during imaging session. This capability also improves the mount's capabilities for remote use.

DID YOU KNOW?

A Renishaw incremental 11.8 million tick encoder is installed on the RA axis of the EQ8-Rh, virtually eliminating periodic error and solidifying the status of the EQ8-Rh as an imminently precise, observatory-class mount for the advanced research astronomer or astrophotographer.

MODEL	DESCRIPTION	PAYLOAD	RRP
SWEQ8-R-NOPIER	EQ8-R Mount	50kg	\$7,999.99
SWEQ8-RH-NOPIER	EQ8-RH Mount+ C/ Weight Green	50kg	\$13,999.99
SWEQ8-RI-NOPIER	EQ8-R Mount Wi-Fi Version	50kg	\$7,749.99
SWA-TRIEQ8	Pier Tripod For EQ8 / CQ350		\$2,749.99



BRAND AMBASSADOR - JOHN RUTTER



JOHN RUTTER

This image was just to pass the time till the milkyway lined up with my main composition, but I'm glad I grabbed it. Tracked with the @skywatcheraustralia star adventurer mini.

Instagram: [johnrutterphotography](https://www.instagram.com/johnrutterphotography)

STAR ADVENTURER MINI (SAM)



Ball head and camera are optional accessories.



Camera and counterweight are optional accessories.

PAYLOAD
3KG

THE ULTIMATE PORTABLE IMAGING PLATFORM

The ultra portable Sky-Watcher Star Adventurer Mini (SAM) is a lightweight equatorial mount that weighs only 650gm. It is a high precision, portable and stable celestial tracking platform for Sidereal, Solar and Lunar tracking with automatic DSLR shutter release control (not included). Moreover, it can be fully controlled with WiFi.

SAM fits on most of astronomical, photo, or video tripod via its 1/4" and 3/8" Adaptor. It is equipped with built-in WiFi and the free Star Adventurer Mini Console App for Android and iOS platform for controlling the mount with your smartphone.

The Polar Scope with included illuminator, helps the polar alignment process in both Northern and Southern hemispheres. That is a great advantage for achieving professional astronomical photos.

KEY FEATURES

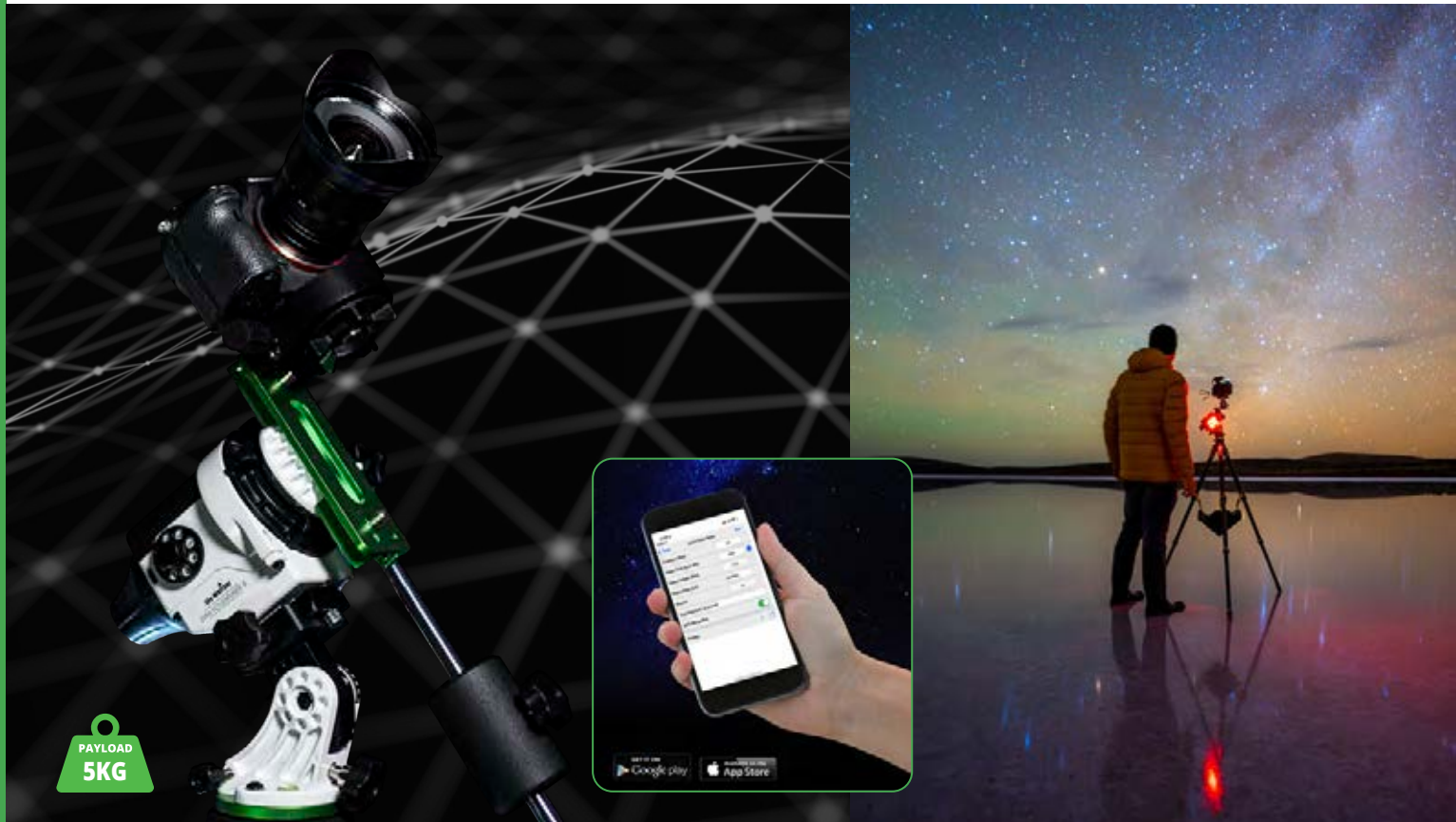
- ▶ WiFi connectivity
- ▶ Multiple pre-programmed speeds for time lapse photography
- ▶ Tracking rate selectable between Sidereal, Solar and Lunar, 0.5x, 2x, 6x, 12x



- ▶ Polar scope (southern hemisphere) w/ illuminator
- ▶ Maximum payload: 3kg
- ▶ Optional snap cable.

MODEL	DESCRIPTION	RRP
SWSTAR-KIT-MINI	Star Adventurer Mini Pro Kit	\$499.99
SWSTAR-WEIGHT	Counterweight (Optional Accessory)	\$54.99
SWSTAR-TRI	Star Adventurer Tripod (Optional Accessory)	\$149.99

STAR ADVENTURER 2i PRO KIT



PAYLOAD
5KG



KEY FEATURES

- ▶ Star Adventurer 2i multi-function equatorial tracking mount with built-in Wi-Fi control
- ▶ 5kg payload capacity
- ▶ Ball head adapter, Dec bracket, latitude (EQ) base, & counterweight kit included (In Pro Kit)
- ▶ Built-in polar scope with illuminator with LED lit polar alignment sight
- ▶ Free Star Adventurer Console control app (for iOS and Android) for imaging the night sky, landscape, and deep sky
- ▶ 1.65kg mount head weight (with dec bracket)
- ▶ All-metal gearing
- ▶ 24 hours of continuous use with two AA batteries or limitless power via 5V mini-USB
- ▶ Built-in SNAP port for camera control
- ▶ Dual 3/8-inch thread panoramic plate with included 1/4-20-inch adapter.

THE GATEWAY INTO ASTROPHOTOGRAPHY

Introducing the new Skywatcher Star Adventurer 2i, the most advanced star tracker in its class. The Star Adventurer now includes built in WIFI, this now aligns with its little brother SAM (Star Adventurer MINI), but that's not all.

The new 2i version now includes the advanced firmware dial and features. The Star Adventurer is known as the gateway into astrophotography, with the upgrade feature only making it a more powerful and enjoyable tool in your kit.



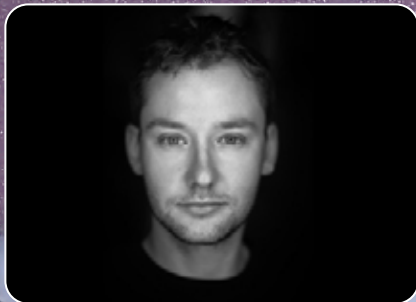
MODEL	DESCRIPTION	RRP
SWSTAR-PRO2i	Star Adventurer 2i Pro Pack WiFi	\$699.99
SWSTAR-TRI	Star Adventurer Tripod (Optional Accessory)	\$149.99
SWSTAR-TRIPODACC	*Star Adventurer Tripod With Accessory Tray	\$149.99
SWSTAR-BALL-G	*Star Adventurer Ballhead Adapter Green	\$14.99
	*Shutter Release Cables (Models Available)	\$9.99

* Optional Accessories

DID YOU KNOW?

The Star Adventurer mount can be fitted to most tripods with its 1/4" thread and 3/8" Adaptor.

BRAND AMBASSADOR - PAUL WILSON



QUESTIONS

Standing under the night sky for long periods of time gets you thinking, thinking about existential questions. Like if there's life out there? How do we comprehend the incomprehensible vastness and scale of the universe? Then my own life and little world and whether I'm in control of it, and how to maintain that control / self-control? I never have the answers, only the thoughts.

This was shot on New Years Eve in the Canterbury High Country, New Zealand. Near Lake Ohau.

I shot the mountain at blue hour after the sun had set, this allowed me to get a cleaner image. I then waited for darkness and tracked the Orion Constellation (also known as The Hunter) across the sky for an hour, when I stopped tracking it was aligned with the top of this mountain. I should add that the patches of coloured snow are from the Australian bush-fire fallout.

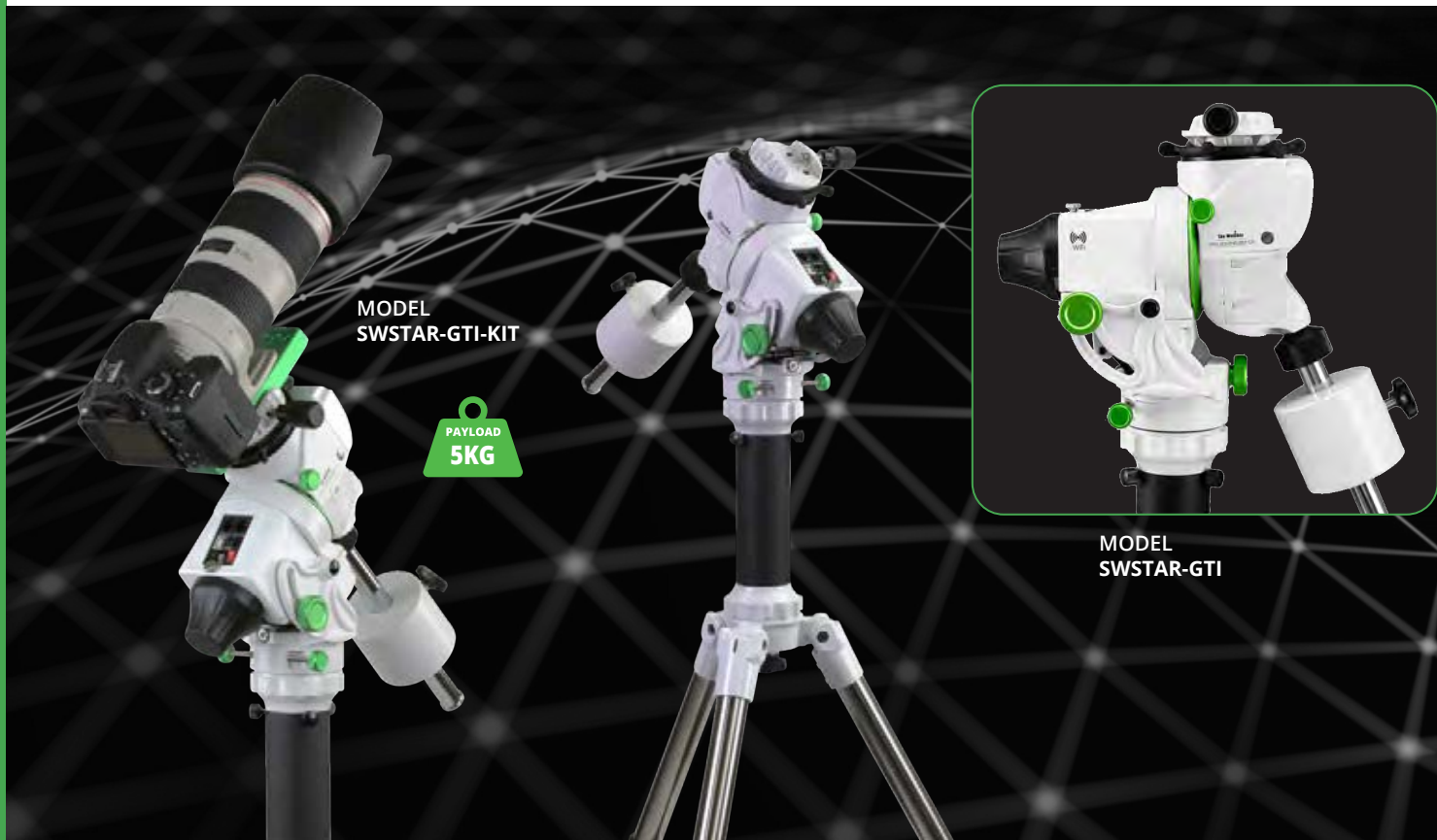
Tracking mount: Sky-Watcher Star Adventurer 2i
Mountain: 105mm Sigma Art, Canon EOS R, 5 shot panorama

Sky: 40mm Sigma Art, Canon 6D H.Alpha modified, 38 images stacked in PS.

Polar Alignment: Polemaster from QHYCCD

Paul Wilson Images
[instagram.com/paul_wilson_images](https://www.instagram.com/paul_wilson_images)

STAR ADVENTURER GTi



MODEL
SWSTAR-GTI-KIT

PAYLOAD
5KG

MODEL
SWSTAR-GTI



HIGH PRECISION, GOTO FAST STAR FINDING

Sky-Watcher Star Adventurer GTi is user-friendly and allows various combinations to satisfy all your needs for astrophotography. It is a high precision, fast star-finding, stable astrophotography GOTO mount.

It is small and portable and is the best choice for astronomy enthusiasts for travel, astronomical photography and observation.

KEY FEATURES

- ▶ Multi-Purpose Mount Only - *Pier extension not included in Australian kit - the included manual is universal, and accessories may vary depending on country of purchase.
- ▶ Payload: 5kg / Self-weight: 2.6kg
- ▶ Counterweight: 1x 0.7kg & 1x 1.6kg, Dual-Tilt, Removable Rod (Pre 2023 models are supplied with 1 x 2.3kg counterweight.)
- ▶ Polar Scope: Built in polar scope with illuminator
- ▶ Latitude Range: 0 to 70 Degree
- ▶ Connectivity: Hand Controller, USB, Wi-Fi Autoguider, DSLR
- ▶ Controller: SynScan Pro App (Android/iOS/PC) SynScan Hand Controller (Opt.)
- ▶ Power: DC 12V or 8-AA Batteries
- ▶ Compatible with 3/8" camera tripod thread.



(Pier extension optional)

MODEL	DESCRIPTION	RRP
SWSTAR-GTI	Star Adventurer GTi GoTo WiFi Mount	\$1249.99
SWSTAR-GTI-KIT	Star Adventurer GTi GoTo WiFi Mount With Steel Tripod	\$1349.00
SWSTAR-GTI-EXT-K	Star Adventurer GTi GoTo WiFi Mount With Steel Tripod + Extension Tube	\$1399.00
SWSTAR-TRIPODGTI	Star Adventurer GTi Tripod	\$149.99
SWSTAR-GTI-CW5	Star Adventurer GTi 2.3kg Counterweight	\$49.99

STAR ADVENTURER GTi



Camera, telescope and pier extension not included.

BRAND AMBASSADOR - SARAH LONGCOR



M42 - Orion Nebula

My love for the night sky and astrophotography began in 2019 when I purchased a beginner telescope and witnessed a super moon through the eyepiece for the first time. This image was shot from my borte 1 backyard in rural Victoria near the Grampians. 2 hours of data integration, shot with the EvoStar 80ED, EQ6-R Pro mount and QHY183MC camera.

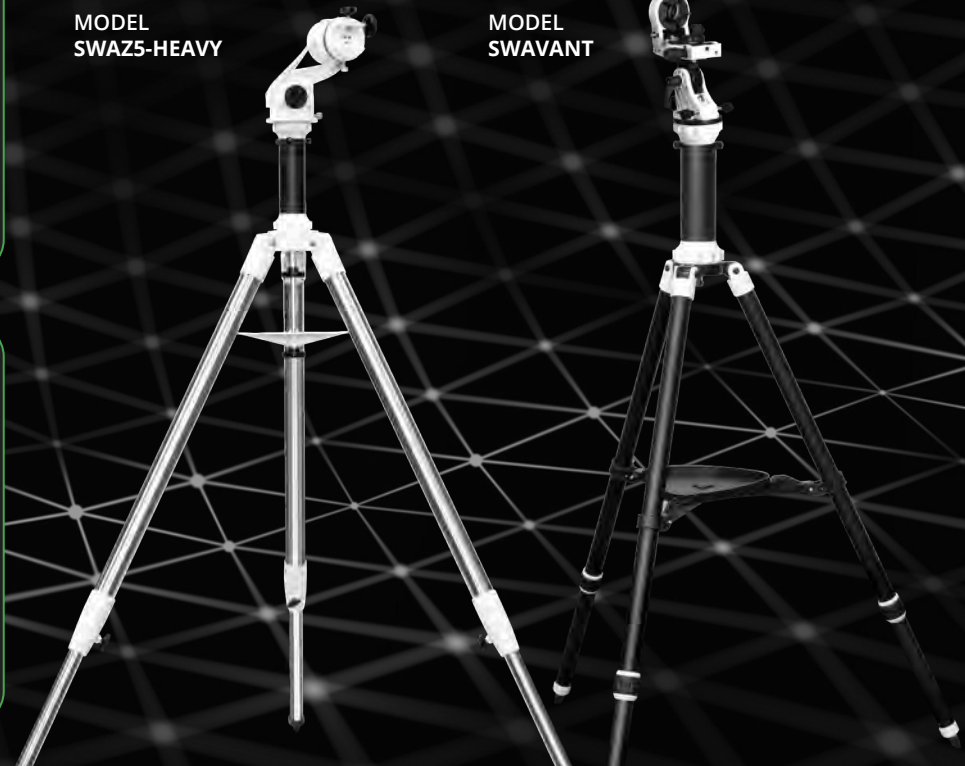
AZ MOUNTS



MODEL
SWAZ5-HEAVY



MODEL
SWAVANT



KEY FEATURES

- ▶ Simple design and easy to use
- ▶ Lightweight and portable.

DID YOU KNOW?

Their simplicity makes AZ mounts an excellent choice for beginners, providing an optimal starting point to familiarise yourself with telescope mounting.



SIMPLE TO SET UP & EASY TO USE

Alt-Azimuth or Alt-Az mounts are simple telescope mounts that are quick to set up and easy to use. These mounts have two axes of movement: altitude (up/down), and azimuth (left/right). As an object like the Moon moves across the sky, you will need to adjust both of these directions every now and then to keep it in your view. These mounts can be matched with your favourite telescope, camera or spotting scope.

The Sky-Watcher AZ3-R Alt-Azimuth mount is made smaller, lighter and more durable than previous models. This mount is also available in three telescope kits; the 102mm Maksutov-Cassegrain, 90mm refractor and 130mm reflector. With 360° fine adjustments, micrometric adjustment knobs and a 3kg payload, it's the perfect mount for land and sky viewing.

The Sky-Watcher AZ-EQ AVANT combines the advantages of the equatorial mount with the simplicity of the alt-azimuth system by being usable in either configuration. It is light, flexible and durable.

MODEL	DESCRIPTION	RRP
SWAZ3	AZ3 Mount with Tripod	\$224.99
SWAZ3-R	AZ3-R Mount with Tripod	\$349.99
SWAZ4A	AZ4 Mount with Tripod	\$299.99
SWAZ4S	AZ4 Mount with Steel Tripod	\$424.99
SWAZ5	AZ5 Mount	\$599.99
SWAZ5-HEAVY	AZ5 Mount with Heavy Duty Tripod	\$699.99
SWAVANT	AZ-EQ AVANT with Tripod	\$424.99

FOLLOW US ON SOCIAL MEDIA



FIND US ON FACEBOOK!

Follow us and keep up to date on the latest and greatest from Sky-Watcher. Find upcoming events, product announcements, product reviews, photos and interesting facts from the Astronomy world.

Join our group and find a place for like-minded space aficionados to share ideas, astronomical experiences and post photos of your astronomy gear and amazing space photos.

facebook.com/SkyWatcherAustralia
facebook.com/groups/skywatcheraustralia



@johnrutterphotography with some awesome detail.



@bbroastro capturing the light.



Detail taken from big pano by @johnrutterphotography

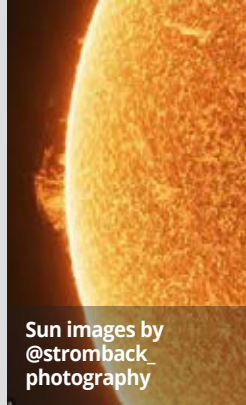


FOLLOW US ON INSTAGRAM!

We love putting up the latest snippets of interest from the wonderful world of astronomy - viewers astro photos, your latest kit photos and the new product releases from Sky-Watcher Australia!

Drop by and check it out.

instagram.com/SkyWatcherAustralia



Sun images by @stromback_photography



Statue of Liberty Nebula by @stefan_nebula



@kchayphotos at Mount Cook National Park



Sky-Watcher Australia has its own YouTube channel - with great astro footage from events we've attended, and tutorials on product tips and tricks. youtube.com/channel/UC3JAO_hZYRZNH-n7rbgZTg



youtube.com/watch?v=YTz53zTAuXQ



www.youtube.com/watch?v=YTz53zTAuXQ



The milky way core starts to rise over the eastern horizon from the month of February onwards.



The Milky Way can be seen directly overhead from the month of May.



The Milky Way can be seen setting over the western horizon from the month of September.

SETTINGS

EXPOSURE 20-30 seconds
Correct Exposure is $500 \div \text{focal length}$ (Full Frame Camera)

f STOP 1.8-2.8
Start with the fastest aperture

ISO 3200-6400
Reduce ISO if in light-polluted area

OTHER SETTINGS

- M** Set to Manual Mode
- ∞** Focus Infinity
- WB** White balance 4000K
- 2** Delay timer or shutter release

WHAT YOU NEED TO TAKE WITH YOU



Sturdy Tripod



DSLR / Mirrorless Camera



Wide 14-24mm Lens



Warm Clothes

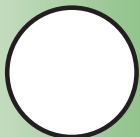


Planetarium App



Star Tracker for longer exposures

THE BEST TIME TO IMAGE THE MILKY WAY DURING THE MOON'S PHASES



Full Moon
10%



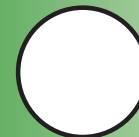
Half Moon
50%



New Moon
100%



Half Moon
50%



Full Moon
10%

ASTROPHOTOGRAPHY

A BEGINNER'S GUIDE TO ASTROPHOTOGRAPHY

Photographing the night sky - known as 'astrophotography' - is surprisingly easy. Taking photos of the skies at night with your Sky-Watcher gear is a fascinating and rewarding way to discover more about astronomy. What do you need?

THE TELESCOPE AND THE MOUNT

You can take pictures through all Sky-Watcher telescopes. We've even had people take great images of the Moon through our small, table top Dobsonian telescopes.

What sort of object you can successfully capture will depend on the type of telescope and your mount. The mount is important for visual use of your telescopes, but critical for astrophotography. A proper mount will hold your telescope steady while the object is captured by your camera and also keep track of the object as it moves through the sky due to the Earth's rotation.

Earth rotates fast - at almost 1,600km/h - and since we'll be taking long-exposure photographs, your camera needs to move in sync with the stars to prevent them from appearing as blurred trails on your photos.



Taken By Carlos Taylor
Dolphin In Deep Space
BRONZE MEDAL 2022
Telescope Used: 250/1000 F4 IMAGING REFLECTOR QUATTRO
Mount Used: NEQ6 Pro

STAR ADVENTURER MOUNT

DSLR + SKY-WATCHER STAR ADVENTURER = NIGHT TIME MAGIC

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.

If you already have an DSLR camera, just add a Sky-Watcher Star Adventurer mount for wide field night sky panoramas. The Star Adventurer tracks the skies above to keep images sharp and exposures even as short as 30 or 60 seconds reveals hidden colours and details just beyond our normal vision.

MODEL	RRP
SWSTAR-GTHKIT	\$1349.00



See full video at
<https://www.youtube.com/watch?v=gor9UUdhf6c>

ASTROPHOTOGRAPHY

WHICH CAMERA?

THE CAMERA

You might already have a camera that can be used for astrophotography. Recent advances in technology means you can get stunning photos using even a smartphone and a low cost telescope.

Sky-Watcher mounts and telescopes combine well with all brands DSLR cameras and will let you photograph expansive views of the Milky way, the Moon, planets like Saturn and Jupiter and even star clusters, galaxies and nebula.

SMARTPHONE Adaptor – THE FIRST STEPS!

The low-cost Sky-Watcher Smartphone Adaptor holds your iPhone or Android phone over your telescope eyepiece to capture the Moon, bright planets and even some star clusters and bright nebula.

It's the easiest way to get into astrophotography and can produce images you'll be proud of.



There's a stack of Facebook groups and other web resources to help you get the best astro photos from your smartphone.

DSLR - USING YOUR CAMERA

If you're serious about photography you've probably already got a DSLR as part of your kit. Did you know even basic DSLR cameras can be turned into an effective astrophotography tool?

A complete range of T-rings and Adaptors are readily available to connect any major brand of DSLR camera to your Sky-Watcher telescope. With an EQ tracking mount it's even possible to take long exposure pictures of deep sky objects like nebulae and galaxies.

DEDICATED ASTRONOMY CAMERAS

Both CCD and CMOS astronomy cameras have dropped in price in recent years. They are designed solely for astrophotography.

Recent software advances have made using them to capture and process images much simpler too. Serious amateur astronomers now have a wide choice of astro cameras to suit their photographic interest.

VISIT OUR SKY-WATCHER AUSTRALIA WEBSITE FOR MORE INFO ON ASTROPHOTOGRAPHY - skywatcheraustralia.com.au/ap



PROCESSING YOUR IMAGES

Digital processing has revolutionised the way astronomers of all levels get the best from their telescopes. You can combine or "stack" multiple images to bring out the finer details in images and even help remove some of the distortions caused by the Earth's atmosphere.

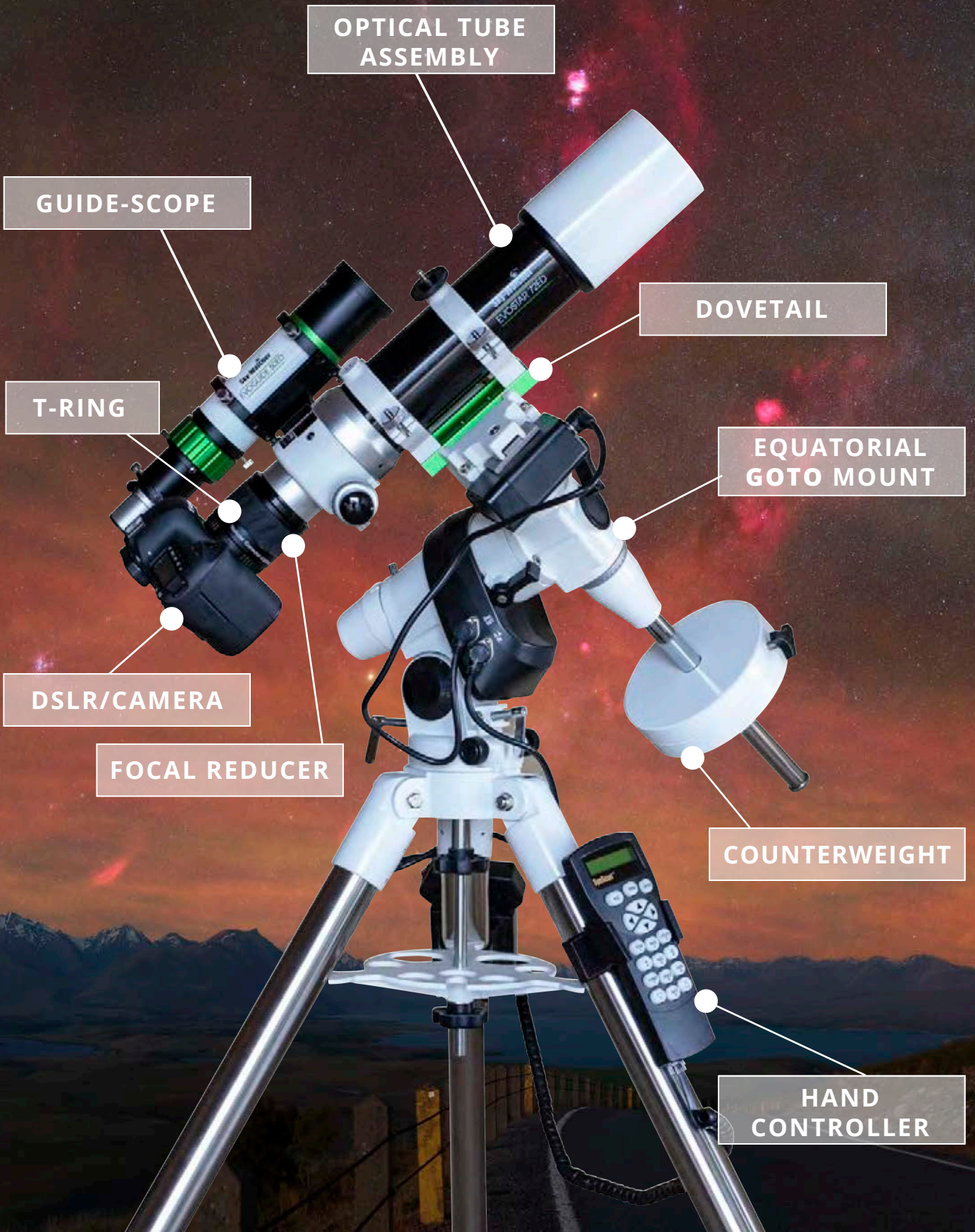
Sky-Watcher users will often go back and re-process their old images once they find out you'll find great resource at the Sky-Watcher Australia AP page and discuss techniques with other astrophotographers on the Sky-Watcher Australia Facebook Group.



Taken By David Gray
 Captain, Where Do We Land
 BRONZE MEDAL 2023
 Telescope Used: 12" Dobsonian
 Collapsible GoTo

ASTROPHOTOGRAPHY

THE ASTROPHOTOGRAPHY SET UP - Set up your gear to photograph the skies.





MOA-II UNDER THE SOUTHERN SKY
TAKEN BY CHESTER HALL-FERNANDEZ
BRONZE MEDAL 2023 NIGHTSCAPE

2023 ASTROPHOTOGRAPHY COMPETITION

2023 | ASTRO PHOTOGRAPHER OF THE YEAR

Only 3 years old and it's starting to become a major event in the astrophotographer's calendar. Yet again, this year's Sky-Watcher Astrophotography Competition attracted the most incredible outpouring of amazing astrophotographs, proving what a talented bunch of star gazers we have here in Australia and New Zealand.

Many thanks to all who have entered the ASTROPHOTOGRAPHER OF THE YEAR 2023 competition. Judging was difficult as always! This year we were very honoured to have renowned judges Alyn Wallace, Trevor Jones, Adrien Mauduit and Terry Lovejoy to judge our Astrophotographer of the Year 2023 competition.

Many congratulations to all our winners!

OUR JUDGES

DEEP SPACE

Trevor Jones

@astrobackyard
astrobackyard.com

NIGHTSCAPE

Alyn Wallace

@alynwallace
alynwallacephotography.com

SOLAR SYSTEM

Terry Lovejoy

@terrylovejoy1966
Terry's Wikipedia Page

TIME LAPSE

Adrien Mauduit

@nightlightsfilms
nightlightsfilms.com

PEOPLE'S CHOICE

SNOWY GAMES by Kavan Chay



DEEP SPACE



GUM 15 IN HRGB by Jacob Heppell

Skywatcher 10" F4 Quattro, Tele Vue Paracorr II coma corrector, NEQ6 mount (belt modded), QHY268M, QHYCFW3M (7x36mm), QHYOAG Medium, QHY5-III 290M guide camera, Antlia 3nm Halpha narrowband filter, Antlia RGB filters. Stacked/Registered with Deep Sky Stacker/Registar, postprocessing in Photoshop CS5



Silver Medal - THE HAND OF GOD
Chester Hall Fernadez



Silver Medal - SCULPTOR GALAXY
Jacob Heppell



Silver Medal - THE SOUTHERN TADPOLES
Logan Carpenter



Silver Medal
YING & YANG
Katherine Miller



NIGHTSCAPE



ETHEREAL GLOW by Larryn Rae
19x Image Panorama, Canon R5 camera, Tamron 35mm lens,
f/1.4 to f/2.8, ISO3200, 8 seconds exposure for the sky, 15 seconds
exposure for the foreground.



Silver Medal - SWAMPED SKIES
Joshua Rozells



Silver Medal - SNOWY GAMES
Kavan Chay



Silver Medal - PARALLAX
Nick Faulkner



Silver Medal VAST
Tom Rae

SOLAR SYSTEM



A MESSAGE FROM THE SUN by David Gray

Time 5am UT (1pm AWST), illumination 100%, Visual magnitude -26.7, Apparent size 32.4 arcmin.

This image was captured using a Skywatcher 127 Maksutov, a custom made IR/UV cut filter, and the adaption of a Dedicated Quark Chromosphere Solar filter. The large prominence was imaged first, then the Chromosphere was imaged at a much lower gain setting.



Silver Medal
SHADOW
TRIPTYCH
Phil Hart



Silver Medal
FULL MOON
IRISATION
Kristian Parrott



Silver Medal
COMET LEONARD
FLARE NUCLEUS
Kristian Parrott



Silver Medal
DYNAMIC
Tom Rae



TIME LAPSE



OVER UNDER by Mark Gee

Over Under is a timelapse from an underwater housing both half and fully submerged in a coastal rock pool. The rock pool was illuminated underwater with low level lights, and the focus pull in the second shot was manually controlled frame by frame during the shoot.



Silver Medal - AURORA BOREALIS
Filippo Rivetti



Silver Medal - K'GARI STARS
Filippo Rivetti



Silver Medal - IS THE MOON UNBALANCED?
David Gray



Silver Medal
STAR TURTLES
TRAILS
Dennis
Mellican





Silver Medal
FULL MOON
IRISATION
Kristian Parrott




SKY-WATCHER AMBASSADORS

MEET OUR AMBASSADORS

BLNTPENCIL



For the last six years I have been designing illustrations and more recently, taking photographs of nature including sunsets, storm scapes and astrophotography. I have developed unique techniques on Adobe programs such as Lightroom, Photoshop and Illustrator to create various media forms for different clients and companies. My goal is to showcase the beauty and unpredictability of nature and the unknown mysteries of the night sky.




 /blntpencil
 @blntpencil
 blntpencil.com

STEVEN MORRIS



Steven began his passion for astrophotography in 2014 capturing his first deep space image of the Trifid Nebula. Since then Steven has been hooked on astrophotography, with every photo captured he is trying to push the boundaries of his photography knowledge and skill / understanding.

In 2018 Steven one his first awards for his nightscape images and in 2019 Steven won the David Malin Astrophotography awards in the nightscape category.

 /stevenmorrisphotographer
 @stevenmorrisphotography
 stevenmorris.com.au

JOHN RUTTER



John Rutter is an award-winning landscape astrophotographer from the Hunter Valley of NSW. "After seeing my first Milky Way image on the computer in 2016 I was blown away, but I wanted more, more resolution, cleaner and sharper images. This led me down the path of utilising tracking mounts".

John is known for travelling to remote locations, utilising tracking mounts and long focal lengths to create high resolution, multirow mosaic images of the Milky Way.




 /johnrutterphotography
 @johnrutterphotography
 johnrutterphotography.com

PAUL WILSON



Paul Wilson is a leading astrophotographer based in New Zealand. He is known for his bright vibrant nightscapes and a pioneer for multi row high resolution panoramas. Constantly pushing creative boundaries and planning new projects keeps Paul's work fresh and unique.

Paul uses Sky-Watcher products under some of the clearest and darkest skies in the world. He is also a keen 4x4 enthusiast which takes him to New Zealand alpine mountain ranges and back country rivers.




 /paulwilsonimages
 @paul_wilson_images
 astrodaddy.co

ASTROPHOTOBEAR



Michael Goh is a full-time photographer located in Western Australia primarily capturing astrophotography, commercial, portrait, time-lapse, photospheres, event, video and aerial work.

He received the international Photo Nightscape award 2015, Western Australian Astrofest 2014 and achieved an APOD in February 2016. He has appeared in numerous publications including photography magazines and science books and periodicals. Michael also runs photography workshops.




 /astrophotobear
 @astrophotobear
 astrophotobear.com

PHIL HART



Growing up in Melbourne, Australia, he developed a strong interest in astronomy and photography. On a student budget through school and university, he built his own Newtonian telescope which remains one of his more successful DIY projects.

Astronomy and his love of mountains and snow has significantly shaped the course of his life; a solar eclipse in Zimbabwe in 2001 became the trigger for five years living in Scotland enjoying the northern skies and an occasional aurora.

 /nightskyphotography
 @phil_s_hart
 philhart.com

SKY-WATCHER AMBASSADORS




INTRO TEXT Pudiatu sandam rehendus ere volenia eritio. Ut quae resed quamenem ea sed qui digendem rest qui nossitas imenem eum hicimus qui re comnimp orpore officia eribus, nonsed moditios quat lacipicienis vendi cuptatur, tem restiatia volecae ptatus cus, cum adigend endicipidem.

LARRYN RAE



Larryn is a full-time freelance photographer and filmmaker based in Auckland, New Zealand. He is known for his dedication for capturing landscapes and nightscapes around New Zealand and has built a solid reputation for his unique nightscapes in some of the wildest and remotest parts of the country.




Larryn has a passion for the natural world that has seen him partner with leading brands and organizations to help promote environmental issues and conservation awareness.

 /shadowandshadenz
 @shadowandshadenz
 shadowandshade.co.nz

SPACE GANDALF



I've had a few "ahaaa" moments about lots of things in my life, just as I'm sure you have. I've been sharing a few of mine about our place in the universe with groups of people for a few years now. I bought a telescope. It was big. Everyone wanted to look in it. I started talking, thinking that I was saying things that everyone already knew. "keep talking" was the response, so after a few years of encouragement from friends, fellow business colleagues and interested corporate and individual customers, I started Astro Tours in July of 1995.



 /astrotoursbroome
 @gregquicke
 astrotours.net

SARAH LONGCOR



Beginning her delve into astrophotography in 2019, Sarah brings a wealth of knowledge and expertise to the team with a passion for Deep Sky astrophotography and outreach astronomy. Joining the TSA Optical Team in 2021, she uses her love for astrophotography to help others in their own astronomy adventures via support, troubleshooting and advice on equipment.

Hailing from super dark skies in rural Victoria, Sarah also runs local workshops and star parties for anyone interested in wanting to learn about astrophotography.

 @astro.sez
 /astro.sez

JOEL STAFFORD



Joel started his photographic journey back in 2009, but only got serious with Astro Nightscape Photography in 2018 when he realised that finding time to capture photos in the daylight hours was getting quite hard when you're a busy father of two kids.

Joel sold his camera gear and poured all the money back into gear that was needed to create captivating nightscape images, which is where his first Skywatcher Star Adventurer came into the picture.



 /joelstaffordphoto
 @the_tired_photographer
 thetiredphotographer.com

KATHERINE MILLER



Kat is an award-winning photographer and backyard astrophotographer from Brisbane, QLD. Her love of space began as a child with a field trip to the Mt Cootha planetarium.

"I recall looking up as the ceiling transformed. I was taken for a ride through the cosmos. I was in awe. It was the very essence of magic. This experience sparked a lifelong fascination with the mysteries of the universe."




 /astrogirl.au
 @astrogirl.au
 astrogirl-au.com

ALYN WALLACE



Alyn Wallace is an award-winning landscape astrophotographer and YouTuber from the Brecon Beacons National Park in South Wales. His work has been featured by the likes of National Geographic, NASA and BBC Earth and he was recently announced as the winner of the 'Landscapes at Night' category in Landscape Photographer of the Year 2020.

Now a full-time professional, Wallace travels the world on his quest to capture the darkest skies and most otherworldly landscapes to share with his online following.

 /alynwallace
 @alynwallace
 alynwallacephotography.com

BUYING YOUR FIRST TELESCOPE

FAQs - Buying a telescope is a big step, especially if you're not familiar with the technology and terms. To help you navigate your way to buying a new telescope we've put together a few of the most asked questions.

What Type Of Telescope Do I Need To See The Stars And Planets?



Why Are Objects Through My Telescope Shown Upside Down?

WILL MY TELESCOPE BE COMPLETE OR WILL I NEED ADDITIONAL ITEMS TO MAKE IT WORK?

If you buy a complete Sky-Watcher telescope and mount, it will include everything you need to start observing. You won't need any extra parts or accessories. Of course there's always various add-ons you can purchase to get more out of your telescope such as eyepieces, filters, camera adaptors and more. You can find out what's the best way to grow by talking to your local Sky-Watcher dealer.

I'M INTERESTED IN OBSERVING, WHAT SHOULD I DO FIRST?

Learn all you can about telescopes: what types are available, the best accessories, and what you'll see through them. If a telescope in this catalogue interests you visit: www.skywatcheraustralia.com.au and read more about it. Once you're more familiar with the technology and terminology you'll feel more confident in making your decision.

WHAT'S THE BEST TELESCOPE FOR ME?

This is a hard question to answer as everyone has different requirements and budgets! However a general good idea is to buy the telescope you think you'll use the most. If it takes an hour to set up a scope, or if your scope is too large, heavy and difficult to move, you might observe only a handful of times each year.

This way you'll get the most enjoyment from your new Sky-Watcher telescope.

APART FROM QUALITY OPTICS WHAT'S THE MOST IMPORTANT THING IN A TELESCOPE SYSTEM?

The mount is what the telescope's tube sits on. You can buy the finest optics on the planet, but if you put them on a low quality mount you won't be happy with your system. No telescope can function in high winds, but a poor mount will transfer vibrations even in a light breeze. Be sure you invest in a high quality mount to get the best from your telescope.

WHY ARE OBJECTS THROUGH MY TELESCOPE SHOWN UPSIDE DOWN?

Because of the way a telescope focuses light, the top of what you're looking at is at the bottom as it enters the eyepiece, and vice-versa. You can re-flip the image with an accessory called an **image erector** but you'll lose a bit of the object's light.



IS A 'GOTO' SCOPE BETTER THAN ONE WITHOUT 'GOTO'?

Yes. A GOTO telescope is one with a motor or motors controlled by a built-in computer. Once set up for an evening's observing, a GOTO scope will save you lots of time by moving to any sky object you select and then tracking it. Even experienced observers prefer GOTO scopes because they leave more time to observe the sky.

SKY-WATCHER BUYER'S GUIDE

LEVEL OF EXPERIENCE GUIDES

Try our easy-to-use LEVEL OF DIFFICULTY icons to work out the telescope to suit your needs and expertise. Located at the top of every model page it will help you quickly work out the telescope for you.



BEGINNER
For the first timer who has no previous experience with telescopes.



BEGINNER - INTERMEDIATE
For those fairly new to telescopes who are ready for the next level.



INTERMEDIATE - ADVANCED
For the Intermediate user who is looking for the next challenge.



ADVANCED
For the Advanced user who has plenty of experience with telescopes.

SCALE

HOW BIG IS THE TELESCOPE?

We appreciate that it's very hard to tell the actual size of our telescopes from the photos in this catalogue so we've created SCALE icons to help. By giving a visual comparison to a person it's easier to work out how much space a telescope is going to take up.

Each product has a scale icon next to it so you can get an idea before you buy - of course, there's nothing like seeing the telescope in reality and our scale icons are to be used as a guide only.

MORE INFO?

The **SCALE** icons are a quick guide - for more detailed measurements visit our website and find the specs on the particular model you're interested in.



PAYLOAD

Payloads are the general maximum carrying capacity for Sky-Watcher mounts while still being able to achieve acceptable results for astrophotography. Payload includes the telescope tube itself, cameras, finders and autoguiders as well as focusers and other accessories attached to the mount.

Best imaging results will be obtained when a mount has some payload capacity in reserve and is correctly balanced on both axis and accurately polar aligned.



MORE INFO?

The **PAYLOAD** icons are a quick guide - for more detailed measurements visit our website and find the specs on the particular model you're interested in.

ACCESSORIES

Sky-Watcher offer more accessories than we can fully list here and the range increases regularly. Take a look at our website for the full and most current range.

The main product types are listed below:



- WiFi ADAPTOR
- FINDERS & POLARSCOPES
- EYEPIECES & DIAGONALS
- MOTOR DRIVES & GOTO KITS
- BARLOWS, FLATTENERS & CORRECTORS
- TELESCOPE MOUNT ACCESSORIES
- FILTERS & SOLAR FILTERS
- TORCHES
- ASTROPHOTOGRAPHY
- CASES & MISCELLANEOUS ACCESSORIES

Check the Sky-Watcher website for the latest accessories and add-ons
<https://skywatcheraustralia.com.au/accessories/>

EYEPIECES & DIAGONALS



**70° WIDE ANGLE
LONG EYE RELIEF**
Available in 5mm, 8mm, 13mm, 17mm, 22mm & 32mm.



**58° LONG EYE
RELIEF**
Available in 4mm, 5mm, 6mm, 7mm, 8mm, 9mm & 15mm.



**SUPER PLOSSL
EYEPIECES**



PANORAMA 82° EYEPIECE KIT

BINOCULARS **ZERO TECH**



THRIVE
8X32 & 10X32 / 8X42 & 10X42



THRIVE HD
8X25 & 10X25



THRIVE HD
8X42 & 10X42



15X56 TRACE

TORCHES



Sky-Watcher
LED RED / WHITE LIGHT



BLACK HEADTORCH
- 360 LUMENS



P30i TORCH
- 2000 LUMENS



MH10S TORCH - 1800 LUMENS
NITECORE

ACCESSORIES

FILTERS



VARIETY OF SOLAR FILTERS:
MAKSUTOV, NEWTONIAN, REFRACTORS

Sizes:
90mm 102mm
127mm 150mm 180mm

BARLOWS, T-RINGS, FLATTENERS & CORRECTORS



F5 COMA CORRECTORS



T-RINGS



0.85X FOCAL REDUCER/
FLATTENER FOR
80/100/120ED DS-PRO

MOON FILTER USB ADAPTOR



SWA-MOON1.25



SWA-USB

WiFi ADAPTOR



SW-WIFI

FINDERS & POLARSCOPES



9X50MM FINDER SCOPE
W/ BRACKETS



POLAR SCOPE FOR
HEQ5 & EQ3 MOUNTS

GUIDE SCOPES



80/400
ACHROMATIC OTA

MOTOR DRIVES & GOTO KITS



HEQ5 UPGRADE
SKYSCAN KIT



SYNSCAN HAND
CONTROL V4



DOBSONIAN UPGRADE
KITS FOR GOTO

MISCELLANEOUS



OTA ALUMINIUM
DELUXE CASES



LIGHT SHROUD FOR
DOBSONIANS



COUNTERWEIGHTS

Check the Sky-Watcher website for the latest accessories and add-ons
<https://skywatcheraustralia.com.au/accessories/>



ACUTER - EDUCATIONAL KITS

ACUTER



MODEL
ACDN50



MODEL
ACDM60



phone not included



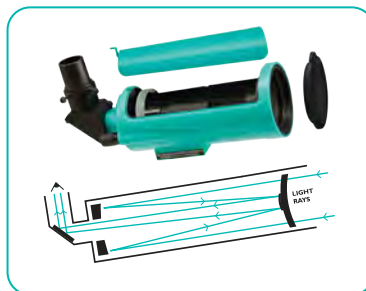
phone not included

ACUTER

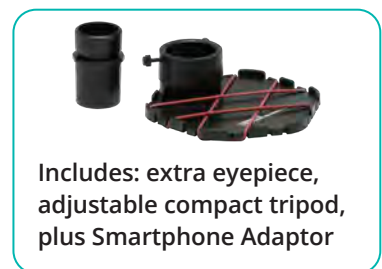


EDUCATIONAL TELESCOPE KITS

- ▶ Great for learning - see how Newtonian and Maksutovs works inside with removable side panel
- ▶ Compact and portable with high quality glass optics
- ▶ Take great photos of the stars with included Smartphone Adaptor
- ▶ Includes: extra eyepiece, adjustable compact tripod, plus Smartphone Adaptor.



**PERFECT FOR YOUNG MINDS
DISCOVERING SPACE &
ASTRONOMY!**



Includes: extra eyepiece,
adjustable compact tripod,
plus Smartphone Adaptor

MODEL	DESCRIPTION	RRP
ACDN50	Newtony 50 Educational Telescope Kit Newtonian	\$99.00
ACDM60	Maksy 60 Educational Telescope Kit Maksutov	\$189.00

ACUTER - EDUCATIONAL KITS

MODEL
ACDOBMAK60



MODEL
ACDM80

ACUTER



Tripod available as optional accessory



EDUCATIONAL TELESCOPE KITS

ACDOBMAK60

- ▶ Find out how Maksutov Reflector telescopes work.
- ▶ Use your own telescope to observe and learn.
- ▶ Photograph and record your observations with included Smartphone Adaptor
- ▶ Compact and portable with high quality glass optics
- ▶ Includes: extra eyepiece, adjustable compact tripod, plus Smartphone Adaptor.

MODEL	DESCRIPTION	RRP
ACDOBMAK60	MAK 60 Educational Telescope Kit Dobsonian	\$249.00
ACDM80	MAK80 Acuter Maksutov OTA	\$349.00

Voyager MAK80 Maksutov OTA Cassegrain Telescope

ACDM80

The best value grab-&-go scope on the market, comes with 2 good quality eyepieces, diagonal & a mobile adaptor.

- ▶ Magnifications (with eyepieces supplied): x40 & x80
- ▶ Highest Practical Power (Potential): x160
- ▶ Diameter of Primary Mirror: 80mm
- ▶ Telescope Focal Length: 800mm (f/10)
- ▶ Eyepieces Supplied (1.25"): 10mm & 20mm
- ▶ 90° 1.25" Roof Prism Image Erecting Prism (Phase Coated)
- ▶ 8x21 Finderscope
- ▶ Adjustable Primary Mirror Cell
- ▶ Focusing by Moving Primary Mirror
- ▶ Smartphone Adaptor
- ▶ Carrying Case.



ACUTER - ASTRO BINOCULARS



MODEL
OP2080



25x100mm JUMBO
ASTRONOMY
MODEL
OP2510



20x80mm JUMBO
ASTRONOMY
MODEL
OP2080



MODEL
SL1570



15x70mm SKYLANDER
ASTRONOMY
MODEL
SL1570

ASTRO BINOCULARS

When you're new to stargazing, the first step seems obvious: buy a telescope. But a good pair of binoculars will serve you just as well in bringing the stars a bit closer to your eyes.

Beginner stargazers often overlook binoculars, but experienced observers keep them close at hand. Compared to a telescope, binoculars actually have certain advantages. Granted, they're smaller and give lower magnification, but they're lighter, much easier to transport and use, and more affordable.

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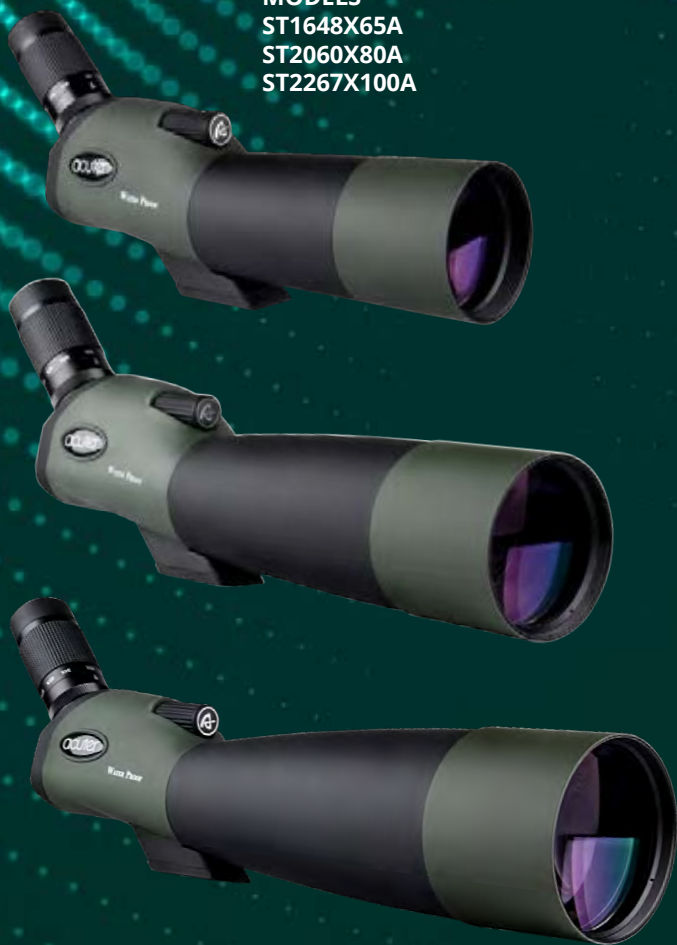
They also give a much wider view than a telescope does, making celestial objects easier to find. They let you use both eyes providing surer, more natural views. Moreover, in binoculars everything is right-side up and presented correctly, not upside down and/or mirror-reversed.

MODEL	DESCRIPTION
OP25100	25x100 Jumbo Spotters
OP2080	20x80 Jumbo Spotters
SL1570	15x70 Skylander Binoculars

ACUTER - SPOTTING SCOPES

NATURE CLOSE SERIES

MODELS
ST1648X65A
ST2060X80A
ST2267X100A



GRAND VISTA SERIES

MODELS
DS65A
DS80A
DS80ED



ACUTER

SPOTTING SCOPES

NATURE CLOSE SERIES

Nature Scope spotting scopes come with O-Ring sealed and nitrogen purged housing to ensure they are fully waterproof, fogproof and dust resistance. Protective rubberised paint finish protects the scope from the elements. The "stay-on" carry case can stay on the scope whilst attached to your tripod, for extra protection from the elements.

- ▶ Ideal for general nature and wildlife observation
- ▶ Fully multi-coated optics
- ▶ Waterproof and fogproof
- ▶ Retractable sunshade / "Stay-on" Case
- ▶ Attaches directly to camera T-Rings
- ▶ Fold-back rubber eyecups.

MODEL	DESCRIPTION
ST1648X65A	16-48x65 Angled E/Piece Spotting Scope
ST2060X80A	20-60x80 Angled E/Piece Spotting Scope
ST2267X100A	22-67x100 Angled E/Piece Spotting Scope

GRAND VISTA SERIES

An achromatic spotting scope that combines excellent optical performance and many high end features, while still maintain affordable price for those with limited budget. Designed to be highly functional precision optic and stylish, they are ideal scope for birdwatching, nature observation and even use for stargazing.

- ▶ 15:1 Ratio Dual Speed Focuser
- ▶ Fully rotatable in collar
- ▶ Extendable sunshade / "Stay-on" Case
- ▶ Fully multi-coated optics
- ▶ Waterproof and fogproof
- ▶ Twist-up eyecups suitable for spectacle wearers.

MODEL	DESCRIPTION
DS65A	16-48x65mm 8-24 Wide Angled Zoom Eyepiece Dual Focus
DS80A	20-60x80 Zoom Eyepiece Wide Angled Dualfocus
DS80ED	20-60x80 Ed Glass 8-24 Wide Angled Zoom Eyepiece Dual Focus

GLOSSARY

GLOSSARY - Astronomy is a world filled with terminology, take a look below for some of the more widely used words and their meanings

GOTO

A GOTO telescope is one with a motor or motors controlled by a built-in computer.

WiFi Capability

Control your telescope with your mobile device via the SynScan app.

Alt-Azimuth

A simple mount that allows movement in altitude (up and down) and in azimuth (side to side).

Aperture

The diameter of the primary mirror or lens.

Astrophotography

Astrophotography is a specialised type of photography for recording images of astronomical objects and large areas of the night sky using long exposures..

Collimation

The process of aligning all the elements of an optical system. Collimation is routinely needed in reflectors, often in Catadioptric systems but seldom in refractors.

Deep Sky

A name given by amateur astronomers to objects beyond our Sun and its planets.

Declination

Similar to Latitude on the Earth's surface, it is the distance in degrees North or South of the Celestial Equator (the projection of the Earth's Equator onto the Celestial Sphere). The degrees can be subdivided into minutes and seconds.

Diagonal

A mirror or prism system which changes the angle and orientation of the light rays coming from the telescope to the eyepiece.

Double Star

Two or more stars that appear very close in position. True double stars are in orbit about one another, while optical doubles simply seem close from our point of view.

Eclipse

The blocking of one astronomical body by another as seen from the earth. The most common of these events are Solar and Lunar eclipses.

Equatorial Mount

A telescope mount with an axis parallel to the axis of the earth. This provides easy tracking of sky objects and for photography when combined with a clock drive.

Eyepiece

Also called an ocular. This is a small tube that contains the lenses needed to bring a telescope's focus to a final image in the eye, much like a high power magnifying glass. Telescopes usually come with at least two eyepieces: one for low power and a second for a higher power view.

Field of View

The maximum view angle of an optical instrument. The number, in degrees, supplied by the manufacturer is the Apparent Field of View.

Finderscope

A low power telescope attached parallel to the main instrument which provides easy object locating and telescope aiming.

Focal Length

The distance of the light path from the objective (primary lens or mirror) to the convergence of the beam. The convergent spot is called the Focus or Focal Point.

Lens

A transparent optical element consisting of one or more pieces of glass. A lens has curved surfaces that bring distant light to a focus.

Lens Coating

A lens coating is when an anti-reflective material such as magnesium fluoride is applied to the lens surface. Lens coatings can greatly increase light transmission and reduce internal lens flares. When all lens surfaces have been coated they are said to be fully-coated and when the surfaces are coated with multiple layers to maximise transmission, the optics are said to be multi-coated.

Magnifying Power

The amount by which a system increases the apparent size of objects. Magnification is determined by dividing the Focal Length of the telescope by the Focal Length of the eyepiece.

Objective

The primary or largest element in an optical system; sometimes called the "fixed optics."

Optical Tube Assembly (OTA)

The housing and optical train of a telescope; not including the mount, diagonal, eyepiece or accessories.

Polar Axis

A telescope mount's axis that is parallel with the earth's axis. With a drive motor, the motion of stars due to the earth's movement can be counteracted so that they remain in the field.

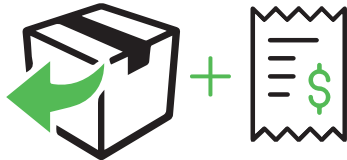
A full Glossary can be found at our website:
skywatcheraustralia.com.au/knowledge-base/#glossary

SKY-WATCHER WARRANTY



Your Sky-Watcher product is warranted to be free of defects in materials and workmanship for five years after the date of purchase*

In the event of a defect under this warranty, we will, at our option, repair or replace the product, provided that you return the product with proof of local purchase such as a receipt.



This warranty does not cover damages caused by misuse, improper handling, installation, collimation or maintenance provided by someone other than a Sky-Watcher Authorised Service Department.



Your Sky-Watcher product must have been purchased in Australia or New Zealand to be valid for our 5 year warranty. Sky-Watcher Products purchased elsewhere, will NOT qualify for manufacturers warranty in Australia. Sky-Watcher products purchased outside of Australia must be returned to the place of purchase to resolve any issues.

Warranties are not transferable.

SUPPORT & ADVICE

Sky-Watcher Australia is dedicated to helping you decide on the best possible astronomical gear to suit your interests and budget!



Complete details on all products are available at the main Sky-Watcher Australia website:

skywatcheraustralia.com.au



HELP

The first option for advice is your local Sky-Watcher dealer. You can find your nearest one here:

skywatcheraustralia.com.au/find-sky-watcher-outlet/

 **Email**

Sky-Watcher Australia also has a constantly evolving information page where you can email our expert staff: sales@skywatcheraustralia.com.au

PRODUCT INFORMATION & REGISTRATON

Scan the QR to your right for all information on products including:

- ▶ Product Registration
- ▶ Product Manuals
- ▶ First Time Buyers Guide
- ▶ Media Gallery and Instructional Videos

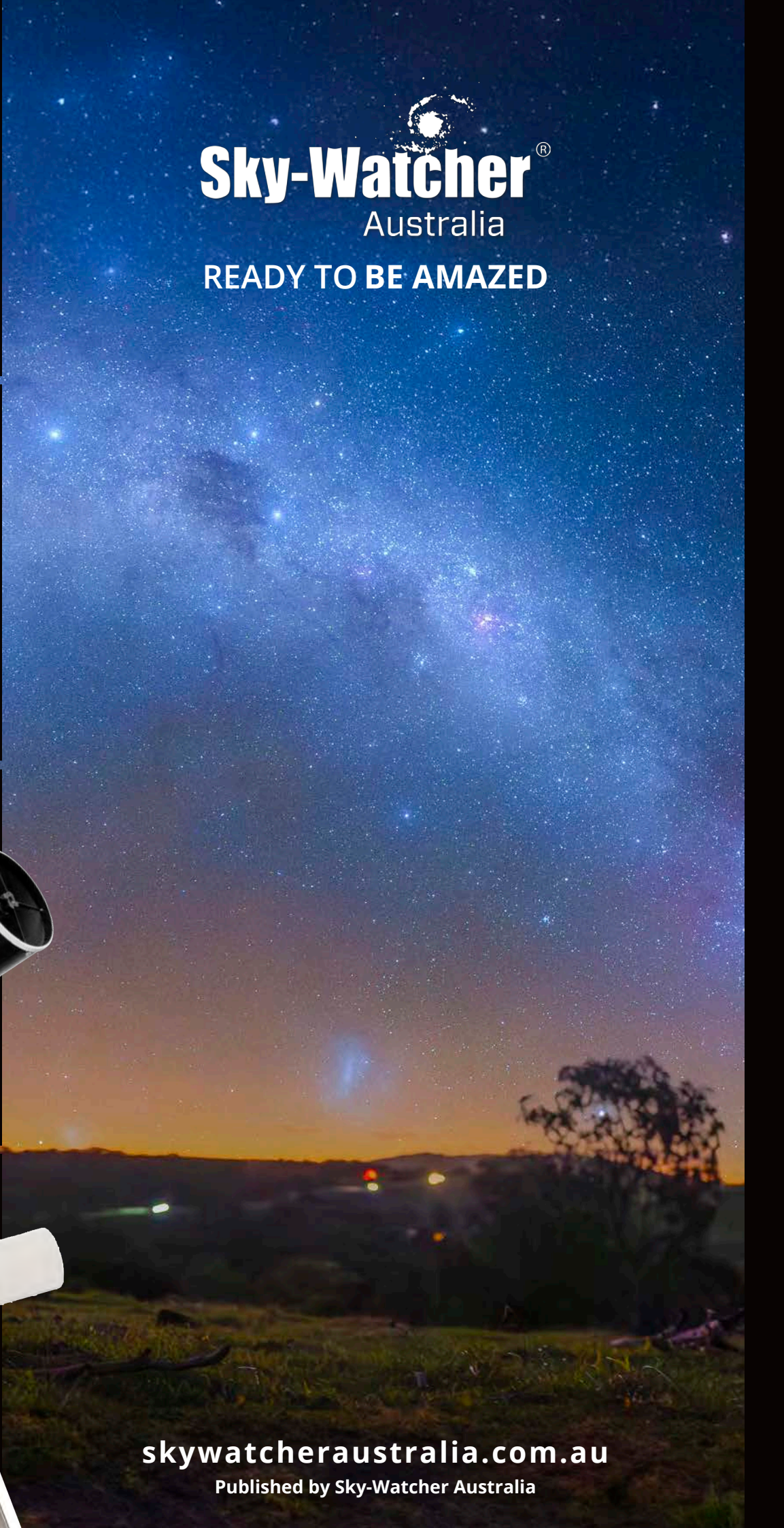
Or visit skywatcheraustralia.com.au/knowledge-base/



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Published by Sky-Watcher Australia