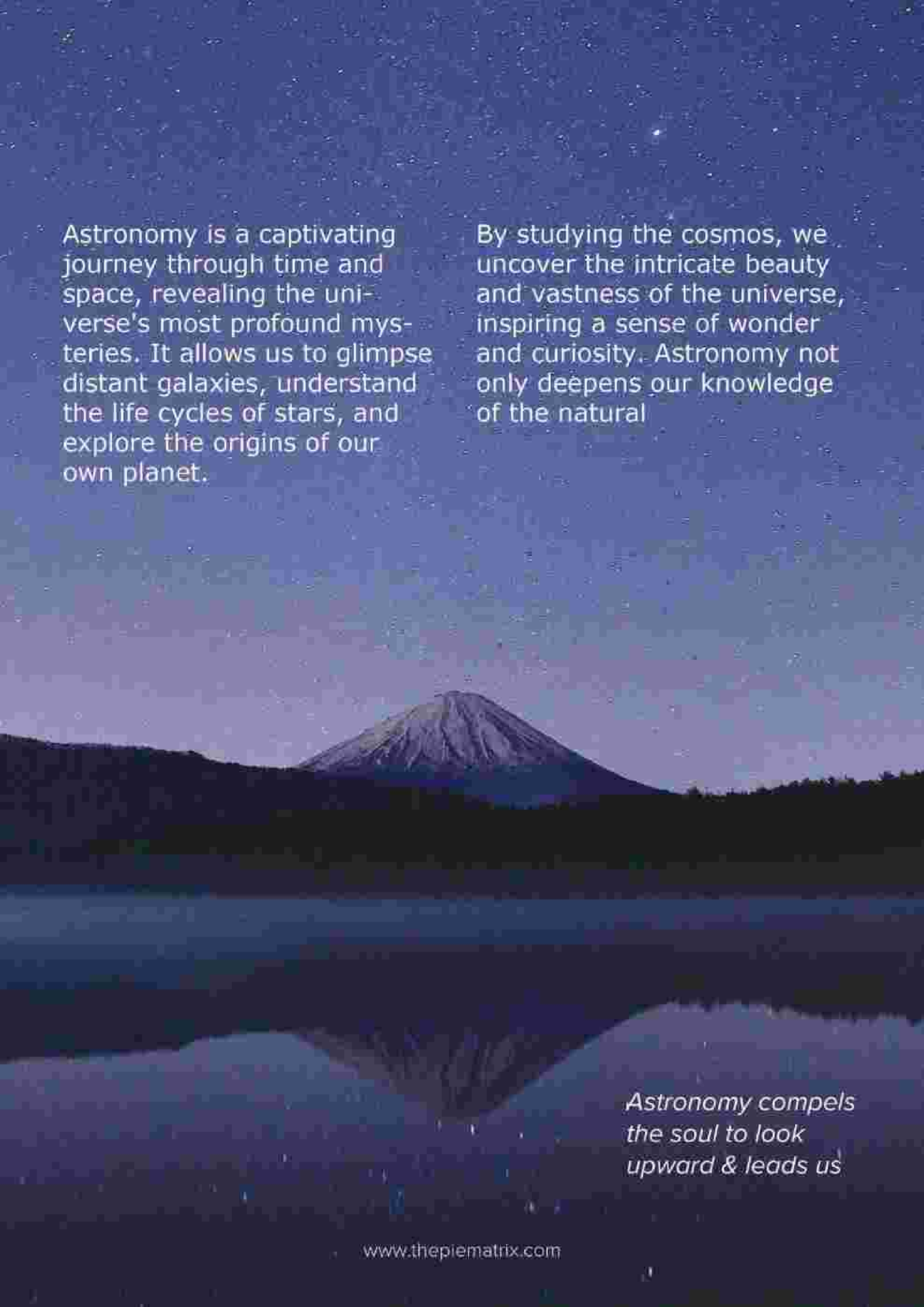




Taking Closer to the Cosmos

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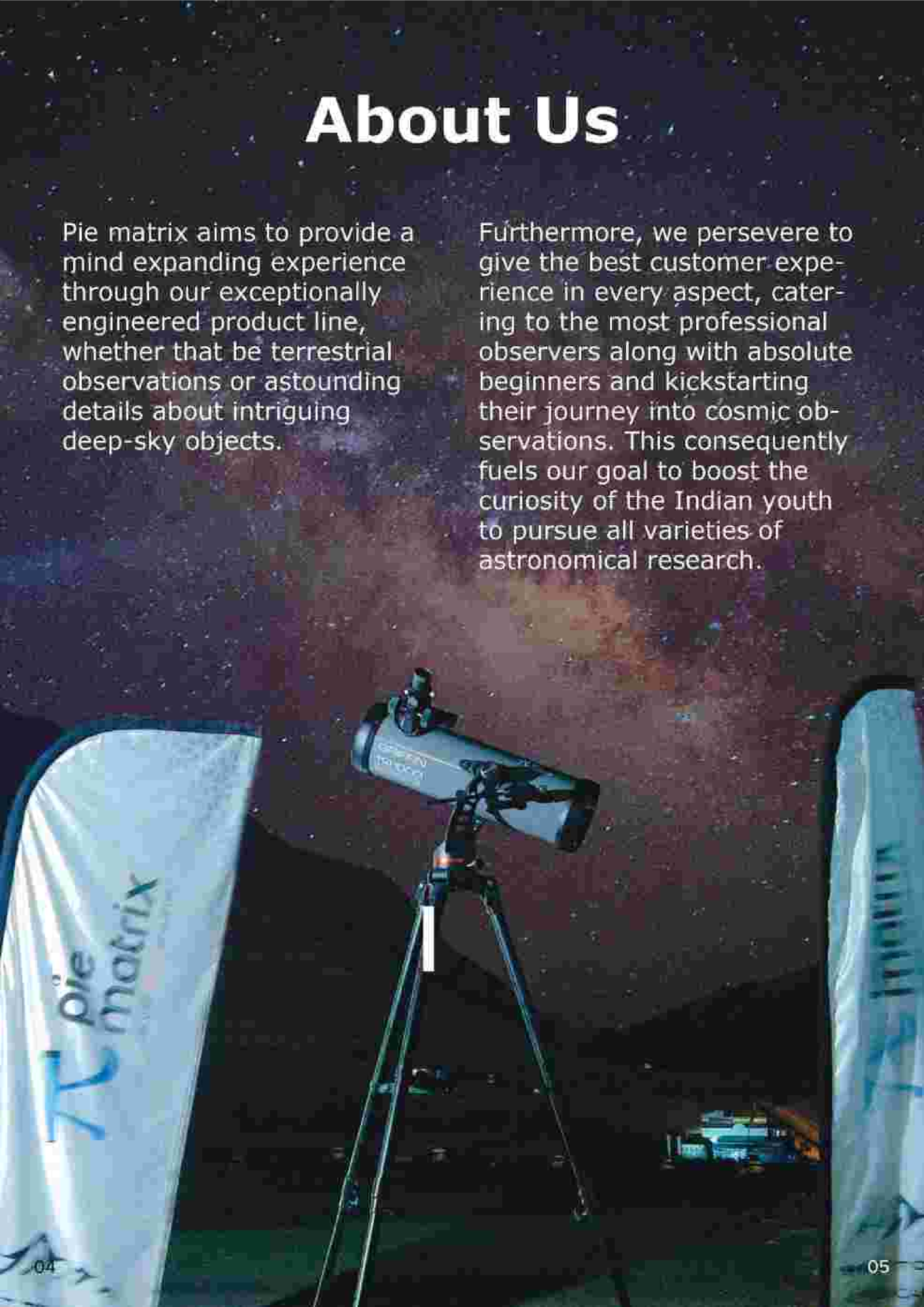


Astronomy is a captivating journey through time and space, revealing the universe's most profound mysteries. It allows us to glimpse distant galaxies, understand the life cycles of stars, and explore the origins of our own planet.

By studying the cosmos, we uncover the intricate beauty and vastness of the universe, inspiring a sense of wonder and curiosity. Astronomy not only deepens our knowledge of the natural

*Astronomy compels
the soul to look
upward & leads us*

About Us



Pie matrix aims to provide a mind expanding experience through our exceptionally engineered product line, whether that be terrestrial observations or astounding details about intriguing deep-sky objects.

Furthermore, we persevere to give the best customer experience in every aspect, catering to the most professional observers along with absolute beginners and kickstarting their journey into cosmic observations. This consequently fuels our goal to boost the curiosity of the Indian youth to pursue all varieties of astronomical research.

Manufacturing Plant

The heart of Pie Matrix's excellence lies in our state-of-the-art manufacturing facility. Located in the industrial hub of Bhiwadi, India, our factory is a testament to our commitment to quality and innovation.

Spanning over 174240 square feet, our facility is equipped with the latest in manufacturing technology, ensuring that every product that leaves our premises meets the highest standards of precision and durability.



Rajesh Kumar, Mentor



Sachin Bhambha, Director



Krishan Kumar, Mentor



**Advanced
Manufacturing
Equipment**



**Quality
Control**



**Research and
Development**



**Sustainability
Practices**

*A Legacy of Vision,
A Future of Discovery*



Meet The Founders

Welcome to Pie Matrix, where the cosmos meets craftsmanship.

Founded by the dynamic duo, two young entrepreneurs Aman Choudhary and Akash Choudhary, Pie Matrix is more than a brand - it's a revolution in the world of optics, dedicated to bringing the wonders of the universe closer to you.

Akash Choudhary

CTO

Akash Choudhary, the innovative brain behind the state of the art products by Piematrix. With a robust background in engineering and design, coupled with a passion for astronomy, Akash leverages his extensive knowledge to enhance product quality and ensure they are tailored to meet customer needs.



Aman Choudhary

CMO

Aman Choudhary is the strategic mind that propels Pie Matrix into the spotlight. His unparalleled expertise in marketing and branding is crucial in building the Pie Matrix community and amplifying awareness of our innovative products. Under Aman's leadership, Pie Matrix is evolving into a dynamic community, inspiring and engaging people to be a part of astronomy community.

Global Reach, Local Presence

Our innovative products have gained a strong profile around the world, resonating with customers who seek clarity and precision in their observational instruments.

But our reach doesn't just span continents; it extends to key locations across India, ensuring that you have access to our exceptional products and services wherever you are.

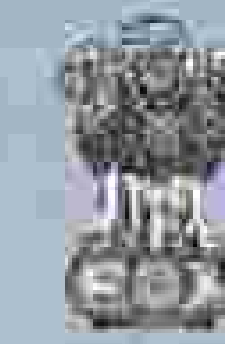
85+ STORES

including *Hamleys*
& other sales partners



Our Clients

amazon



भारत सरकार, नई दिल्ली

Hamleys

TAJ

THE LAL VILÂS
HOTELS & RESORTS

SUJÂN

ASTROPART

RAMADA
HOTELS & RESORTS

SPACE
ENGINEERING LTD

Marriott
HOTELS & RESORTS



Radisson

Planet One
INTERNATIONAL EDUCATION

PLANETone
INTERNATIONAL EDUCATION

LADAKH

Our Portfolio



Telescopes



Binoculars



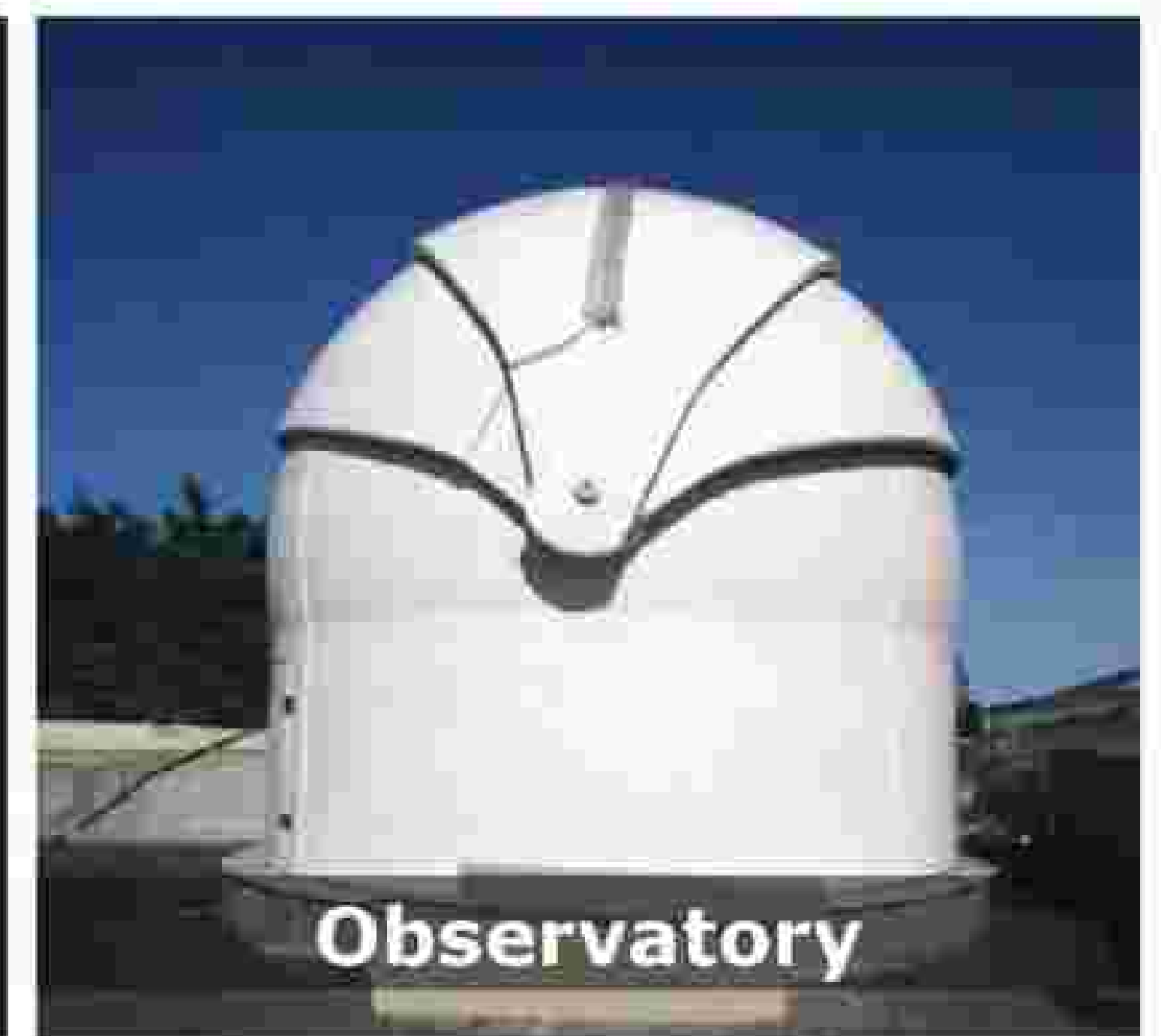
Spotting Scopes



Accessories



Mounts



Observatory

Helix Telescope

Designed to observe and track near and deep-sky objects with a fast focal ratio for astrophotography/imaging.

The Pie Matrix Helix 130mm f/5 Reflector Telescope features a 650mm focal length and an parabolic mirror that produce detailed images of the Moon, clear views of the planets, and the ability to resolve distant objects such as nebula and galaxies.

HELIX 130650



**Quick & Hassle
Free Setup**



**High Performance
& Versatility**



**German Equatorial
Mount**

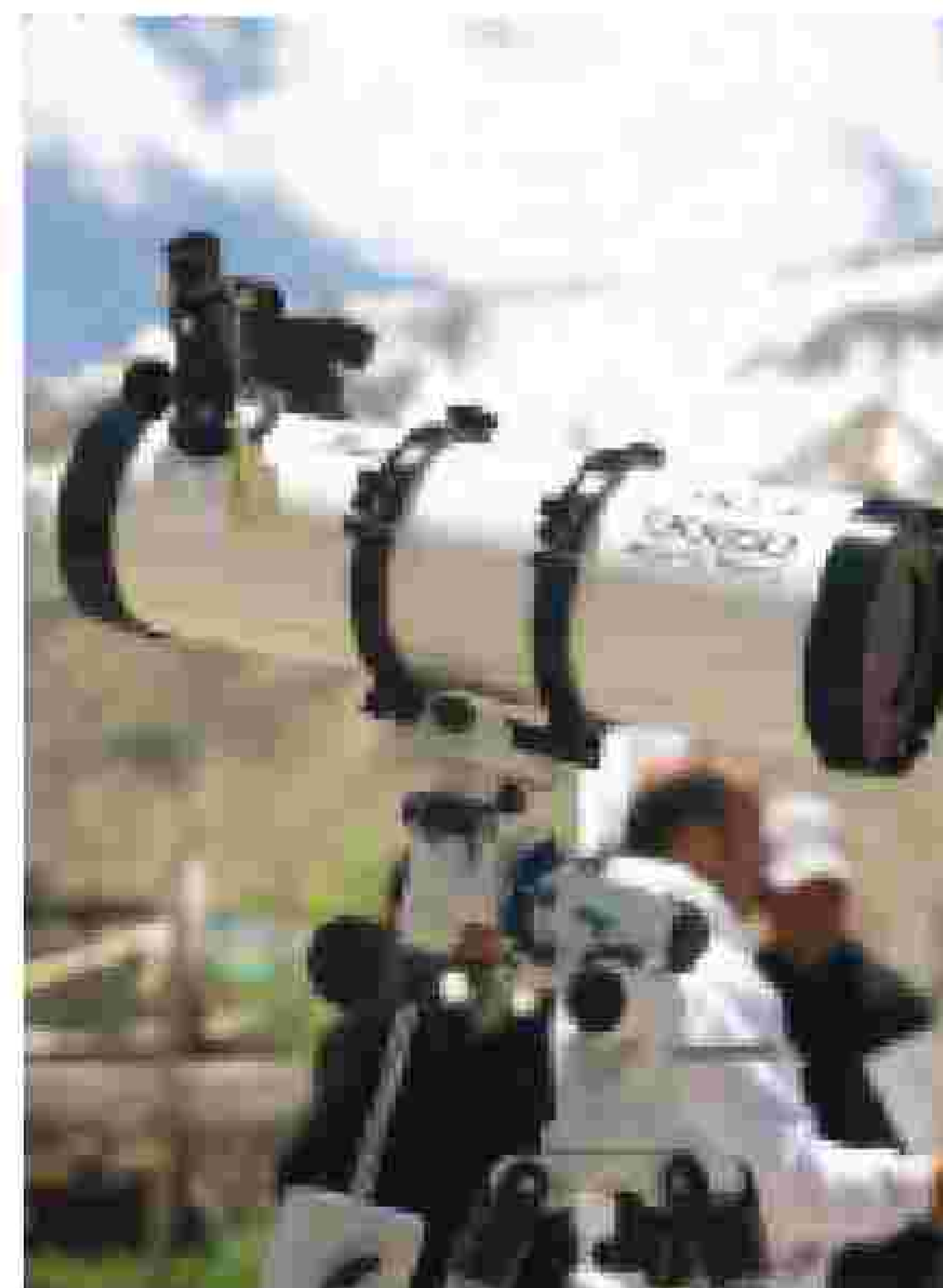


**Phone
Holder**

Helix

Its smooth and precise manual equatorial mount is capable of working in both the Northern and Southern hemispheres.

It has variable speed to track fast-moving objects accurately. For alignment and easy navigation, dual slow-motion control cables are provided; and clearly visible indicators on the Right Ascension and Declination axes.



Technical Specifications

Product Name

Helix

Aperture

130mm

Focal Length

650mm

Tripod

Adjustable Heavy Duty Steel Tripod

Tripod Colour

Stainless Chrome

Focal Ratio

f/5

Resolution

1.07 Arc Second

Tube Material

Metal

Maximum Magnification

325X (with barlow)

Mount

Smooth Manual Equatorial Mount

Lens/Mirror Type

Highly reflective Parabolized & Aluminised mirror with SiO2 coating

Eye Pieces

K25mm, K10mm, 6mm - Aspheric

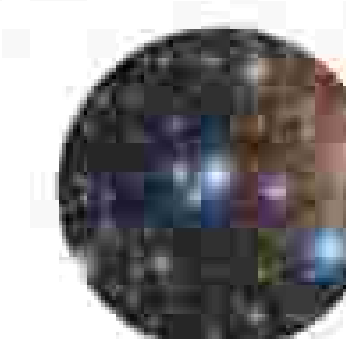
Finder Scope

Red Dot Optical Finderscope

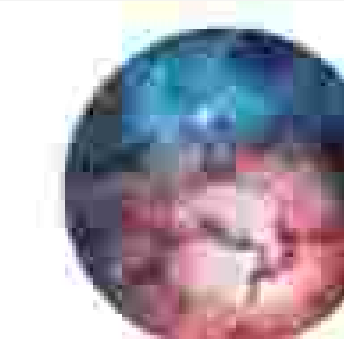
Accessories

20mm Erecting lens, 3X Barlow, Phone Adapter, Bluetooth Adapter & Travel Bag

What we can see through it:



Star Clusters



Nebula

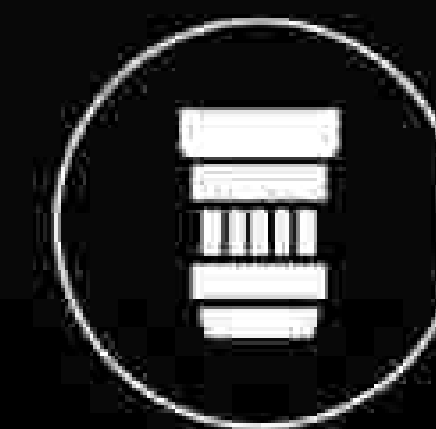


Galaxies

Neo Telescope

The NEO 50mm refractor is the most Travel Friendly telescope due to its light weight and sturdy design. An amazing telescope for young and aspiring astronomers.

NEO 50360



**Versatile
Accessories**



**Portable &
Compact**



**Superb
Resolution**

Neo

Equipped with two eyepieces, H6mm and H20mm, images can now be enlarged from 18 to 90 times. Neo is fitted with Pie Matrix's Balor lens with FMC coating and broadband blue film for higher resolution and crisp contrast.



Technical Specifications

Product Name
Neo

Aperture
50mm

Focal Length
360mm

Prism
90 Degree both side coated Diagonal Mirror

Tripod
Aluminium

Tripod Colour
Electroplated Black

Focal Ratio
f/7.2

Resolution
2.3 Arc Second

Tube Material
Metal

Colour
Night Sky Blue

Minimum Magnification
18X

Maximum Magnification
90X

Mount
Altazimuth

Lens/Mirror Type
Acromathic, Anti-reflective & Fully Coated

Eye Pieces
H12.5mm and H20mm

Weight
1.5kg

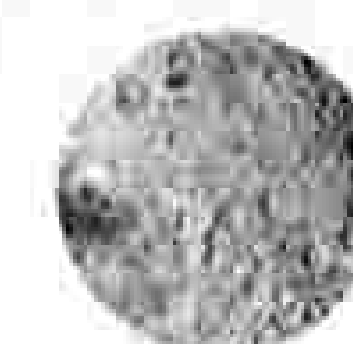
Finder Scope
NA

Accessories
1.5X Erecting Lens, Phone Adapter (Optional) & Travel Bag

WHAT'S IN THE BOX



What we can see through it:



Moon Craters



Bird Watching



Moon

Pegasus Telescope

The Pie Matrix Pegasus 76mm f/9.2 Newtonian Reflector Telescope is ideal for close and deep-sky observation. It features a moderate focal length and a respectable sized parabolic mirror that produce detailed images of the moon and clear views of the planets.



Stable Mount



Enhanced Accessories



Robust Construction



Superior Optics

PEGASUS 76700

Pegasus

The scope is outfitted with a 1.25 Inch focuser, 3 eyepieces to get new users started, and a smartphone adapter for astro-photography. Its pre-assembled manual altazimuth fork mount with slow motion rod for intuitive tracking and alignment of the scope.



Technical Specifications

Product Name
Pegasus

Optical Design
Newtonian Reflector

Aperture
76mm

Focal Length
700mm

Prism
NA

Tripod
Adjustable Aluminium

Tripod Colour
Electroplated Black

Focal Ratio
f/9.2

Resolution
1.52 Arc Second

Tube Material
Metal

Colour
White

Minimum Magnification
35X

Maximum Magnification
235X(with barlow)

Mount
Altazimuthal(Alt-Az) Fork Mount with Locking Mechanism

Lens/Mirror Type
Highly reflective aluminum/SiO2 coated mirror

Eye Pieces
20mm, 12mm, 6mm

Weight
4.2kg

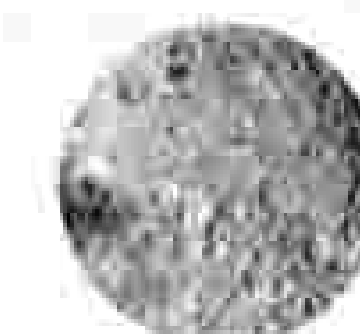
Finder Scope
Optical Finderscope 5X24

Accessories
1.5X Erecting lens, 3X Barlow, Phone Adapter Bluetooth Adapter & Travel Bag

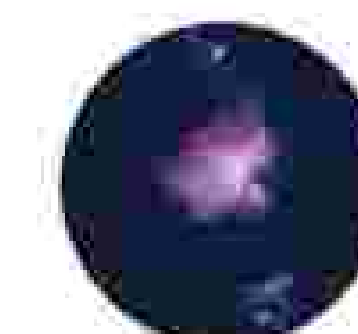
WHAT'S IN THE BOX



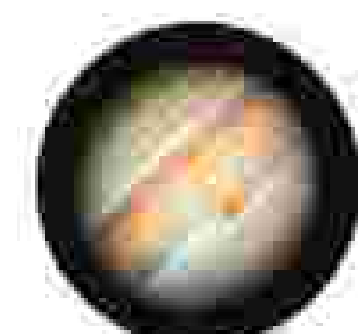
What we can see through it:



Moon Craters



Bright Deep sky Objects



Jupiter

Griffin Telescope

The Pie Matrix Griffin 114mm Newton Reflector Telescope is a good choice for enthusiastic beginners and intermediate amateur astronomers. Its 4.4" diameter is regarded as excellent for light collection. When looking for faint sky objects such as clusters and nebula, a large aperture is essential.

GRIFFIN 114 1000



**Smoothest
AZ Mount**



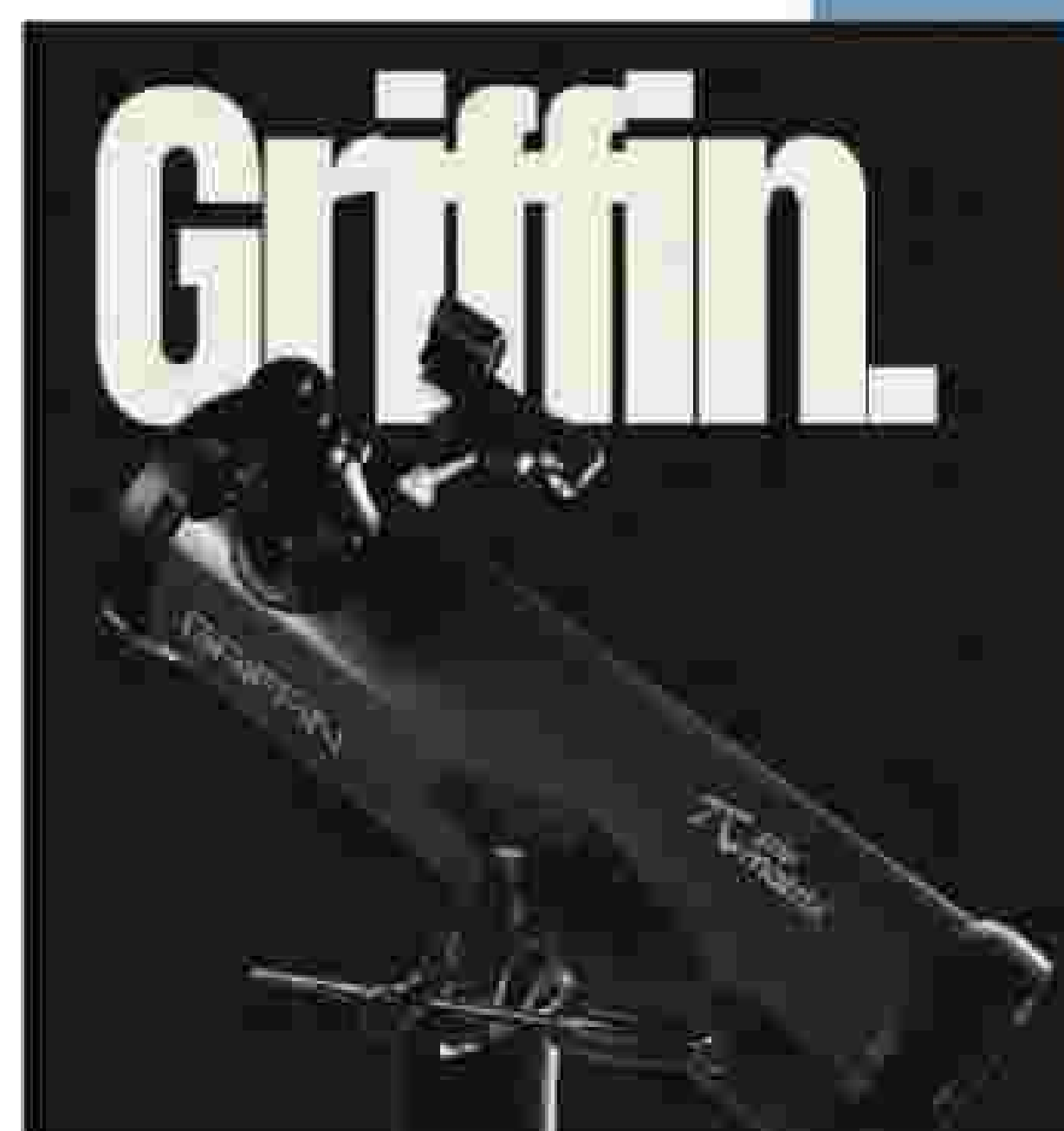
**Superior
Optics**



**Phone
Holder**

Griffin

The Griffin 114 1000, as it's name suggests is a very powerful and high-end reflector telescope, a truly great equipment to open up the wonders of the universe. It reveals moon's craters, Jupiter's moon, ring a Saturn, Star Clusters and more. It has smooth function azi muth(AZ) mount and complete stainless steel 304 grade tripod attached with infra-red red dot viewfinder which allows easy navigation of the night sky for moon and star gazing.



Technical Specifications

Product Name

Griffin

Aperture

114mm

Focal Length

1000mm

Tripod

Adjustable Heavy Duty Steel Tripod

Tripod Colour

Electroplated Black

Focal Ratio

f/8.7

Resolution

1.22 Arc Second

Maximum Magnification

210X(with barlow)

Mount

Smooth Alt-Az Mount with Locking Mechanism

Lens/Mirror Type

Highly reflective aluminium /SiO2 coated mirror

Eye Pieces

K25mm, K10mm, 6mm - Aspheric

Finder Scope

Optical Red Dot Infrared Scope

Accessories

20mm Erecting Lens, 3X Barlow & Travel Bag

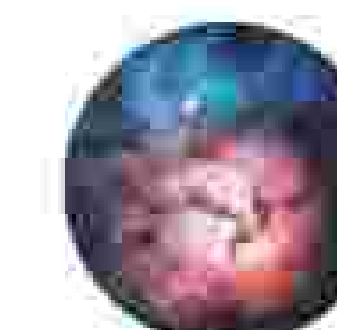
WHAT'S IN THE BOX



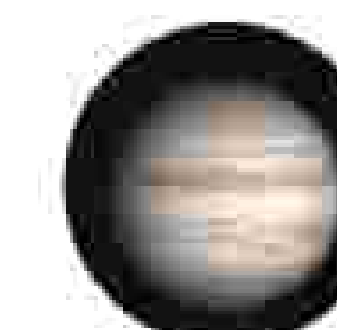
What we can see through it:



Planets



Nebula



Jupiter Bands

Phoenix Telescope

The Pie Matrix Phoenix 60mm refractor telescope is an excellent way to encourage a budding interest in observing the celestial pieces of eye candy that adorn the night dome of the heavens.

PHOENIX 60700



**Sturdy & Reliable
Mount**



**Travel
Friendly**



**Superior
Optics**

Phoenix

With a moderate 60mm aperture, the Phoenix comes with everything needed to start appreciating the night sky's wonders. The three eyepieces 20mm, 12.5mm and 6mm with an included correct diagonal to supply corrected image and versatile magnification to move from a wider view to a closer and detailed study.



Technical Specifications

Product Name

Phoenix

Optical Design

Refractor

Aperture

60mm

Focal Length

700mm

Star Diagonal

45 Degrees BaK4 Fully Coated Correct Image Diagonal

Tripod

Adjustable Aluminium

Tripod Colour

Electroplated Black

Focal Ratio

f/11.6

Resolution

2.31 Arc Second

Tube Material

Metal

Minimum Magnification

35X

Maximum Magnification

175X

Mount

Altazimuthal (Alt-Az) Fork Mount with Locking Mechanism

Lens/Mirror Type

Achromatic, Anti-reflective and Fully Coated

Eye Pieces

20mm, 12.5mm, 6mm

Weight

3.2kg

Finder Scope

Optical Finderscope 5X24

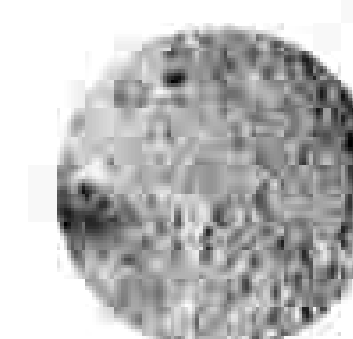
Accessories

1.5X Erecting lens, 3X Barlow, Phone Adapter (Optional) & Travel Bag

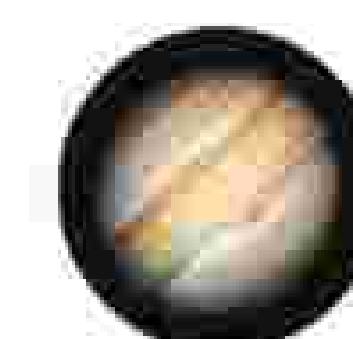
WHAT'S IN THE BOX



What we can see through it:



Moon Craters



Jupiter



Moon

Rigel Telescope

The Advanced Pie Matrix Rigel Telescope is ideal for long duration lunar, planetary, and deep-sky viewing and astrophotography.



RIGEL 120900



Stable Mount



Enhanced Accessories



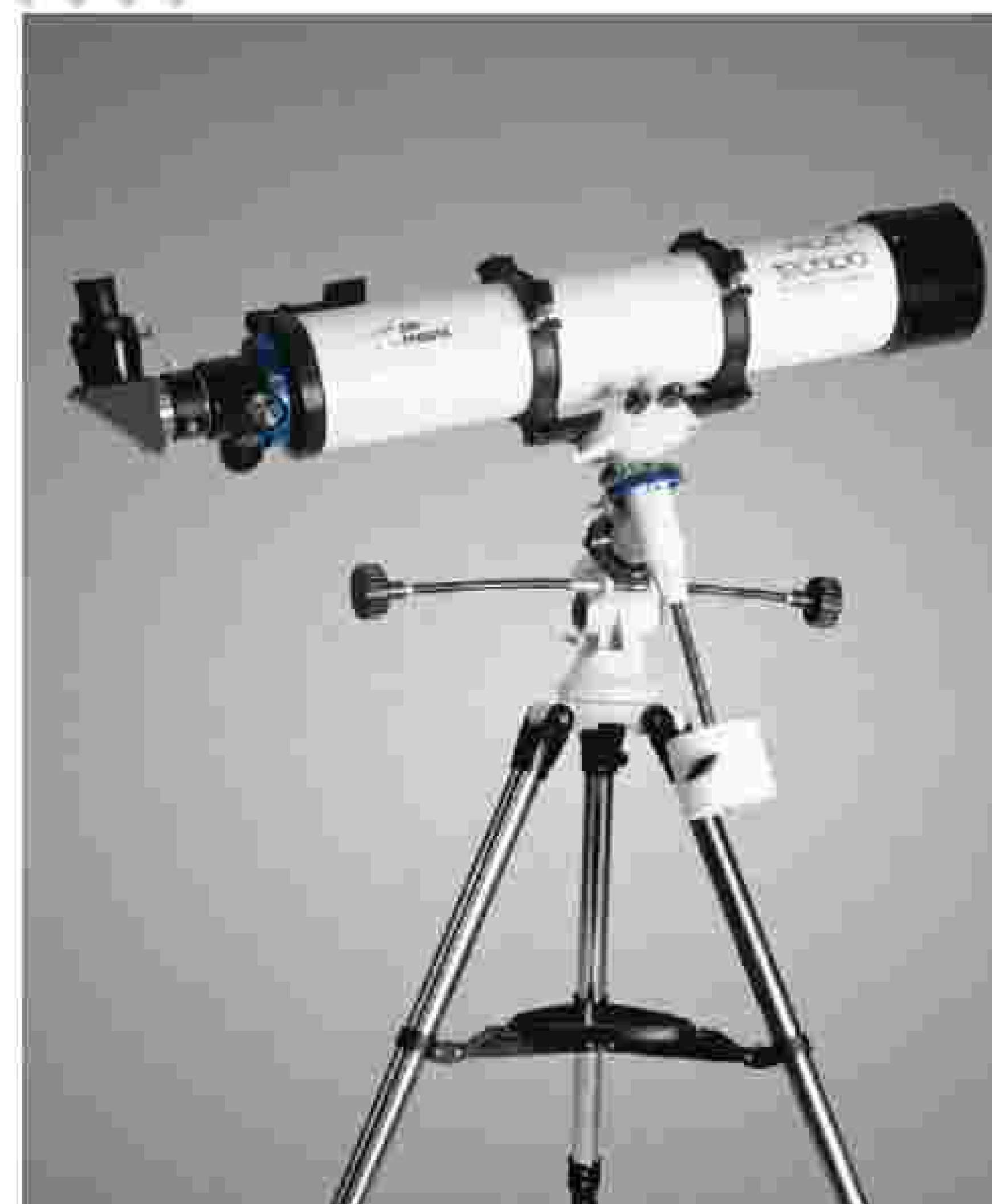
Robust Construction



Superior Optics

Rigel

It boasts a large aperture and long focal length that produces tremendous magnification, facilitating detailed observations of your favorite extra-terrestrial objects in the night sky. Its fully multi-coated achromatic double lens configuration corrects for spherical and chromatic aberrations to create clear and bright images without distortion across the entire field of view, with true color rendition.



Technical Specifications

Product Name
Rigel

Optical Design
Refractor

Aperture
120mm

Focal Length
900mm

Prism
2" Zenth Mirror

Tripod
SS 304 Grade Adjustable

Tripod Colour
Stainless Steel Chrome Plated

Focal Ratio
f/11.25

Tube Material
Aluminium

Colour
Crystal White

Minimum Magnification
36X

Maximum Magnification
450X (with barlow)

Mount
3-Axis German Equatorial Mount

Lens/Mirror Type
Achromatic and antireflective Fully Mutlcoated doublet Lens

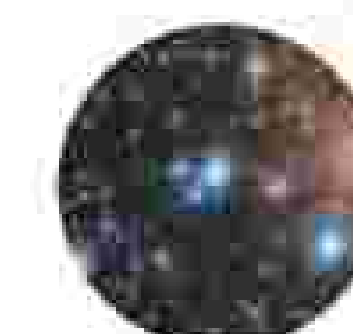
Eye Pieces
6mm - Aspheric, K10mm, K25mm

Weight
12kg

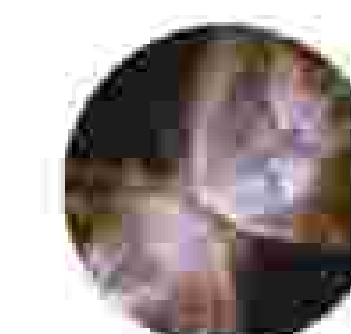
Finder Scope
Optical Infrared Red Dot Scope

Accessories
3X Barlow, Tray, 20mm Erecting Eyepiece, Dovetail Plate, Smart Phone Adapter, Bluetooth Adapter

What we can see through it:



Star Clusters



Bug Nebula



Galaxies

Piematrix Vega Goto Telescope

Piematrix Vega Goto Telescope are very popular and a common choice among beginners in astronomy. The alignment can be done quickly; it does not require vast knowledge about stars and their position in the sky.

5-inch Vega Goto Telescope



Vega Goto

Mount Controller

Mount Type

Fully automated Alt-Azimuth (AZ) GoTo mount

Database

40,000+ celestial objects

Tracking Modes

Alt-Azimuth tracking

Alignment Procedure

AstroPilot (align on any three bright objects)

Mechanical

Tube Material

Aluminium

Lens Cell

CNC machined Aluminium

Mount Material

CNC machined Vixen style aluminium and steel dovetail plate.

Tripod

Newly designed three section 304 grade Stainless Steel with fully adjustable length upto 120cm.

Additional Features

Warranty

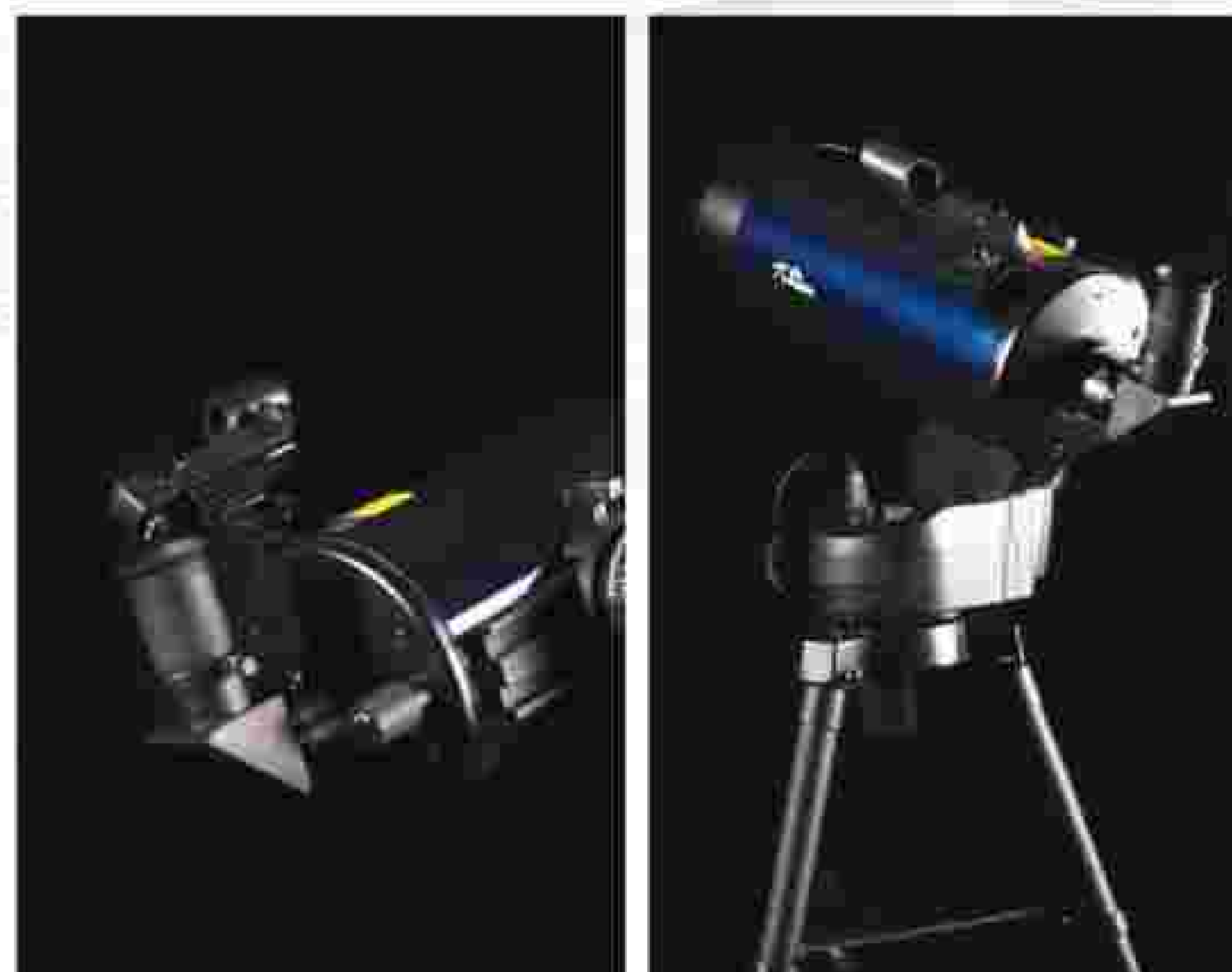
2 years

Dimensions

88cm X 31cm X 19.5cm

Weight

10kg(N.W.), 12kg(G.W.)



Hand Controller Electronics

Hand Controller (StarChaser)

2 lines, 16 characters LCD with back light and with intuitive menu navigation up to 8 speed setting. Included, with a database of 40,000+ objects and including database of more than 120+ Indian Cities.

Motor Resolution

0.77 arc sec

Motors

Precision DC servo motors with encoder in both axes for smooth tracking

Tracking Rate

Realtime processing, with self-adoptive algorithm

Tracking Mode

Alt/Az, EQ North/South automatic identification

Drive System

Controlled by 32-bit MPC, with self-adoptive algorithm

Alignment Procedures

32 bit, 0.1 arc sec, calculations

Power Requirements

12V DC (battery or AC adapter)

Computerized Mount Features

SkyTour feature for guided tours of the night sky

GPS

InBuilt GPS for precision tracking

Technical Specifications

Optical Design

Maksutov-Cassegrain

Aperture

127mm (5 inches)

Focal Length

1500mm

Focal Ratio

f/11.8

Light Gathering Power

450X (with barlow)

Eyepiece Barrel Diameter

1.25in

Optical Coatings

Fully Broadband Multi-coating for better light transmission and Higher reflective Aluminum coating with SiO₂ protection

Included Accessories

Eyepiece

1.25" 25mm (60x magnification) Kellner, 1.25" 10mm Plossl (150x magnification), 3x Barlow

Star Diagonal

1.25-inch 90° mirror diagonal with metal housing

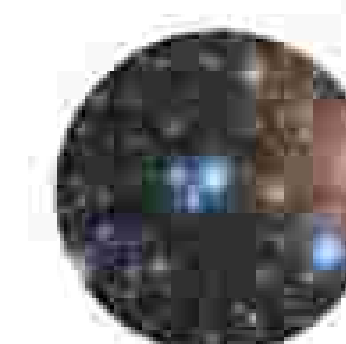
Finderscope

In built Star Pointer red dot FinderScope

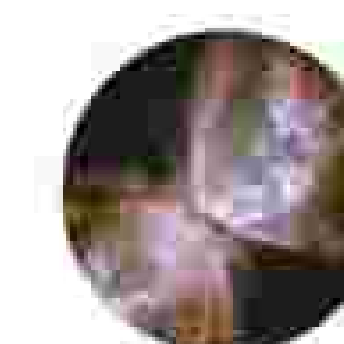
Software

Built-in Astronomy software in the controller with 35,000+ object database.

What we can see through it:



Star Clusters



Bug Nebula



Galaxies

8" Dobsonian Telescope

A high quality Dobsonian telescope with parabolic quality optics with 210 mm aperture. Pie Matrix Dobsonians have mirrors in the upper quality range. This 8" f/6.2 Dobsonian is ideal for observing nebulae and galaxies, but also for moon and planets.

8-INCH DOBSONIAN TELESCOPE



8" Dobsonian

Mechanical Specifications

Primary Mirror Cell

Fully adjustable 3-point flotation system with open frame for quick cooling

Primary Mirror Cooling Fan

Lightweight 4.7" diameter low-vibration cooling fan with universal type-c pin

Altitude Tension & Balancing System

Adjustable altitude tension and balancing system with scale

Altitude Ball Bearings

Sealed metal ball-bearing systems for smooth vertical motion

Size Variation

6 Inches
10 Inches
12 Inches

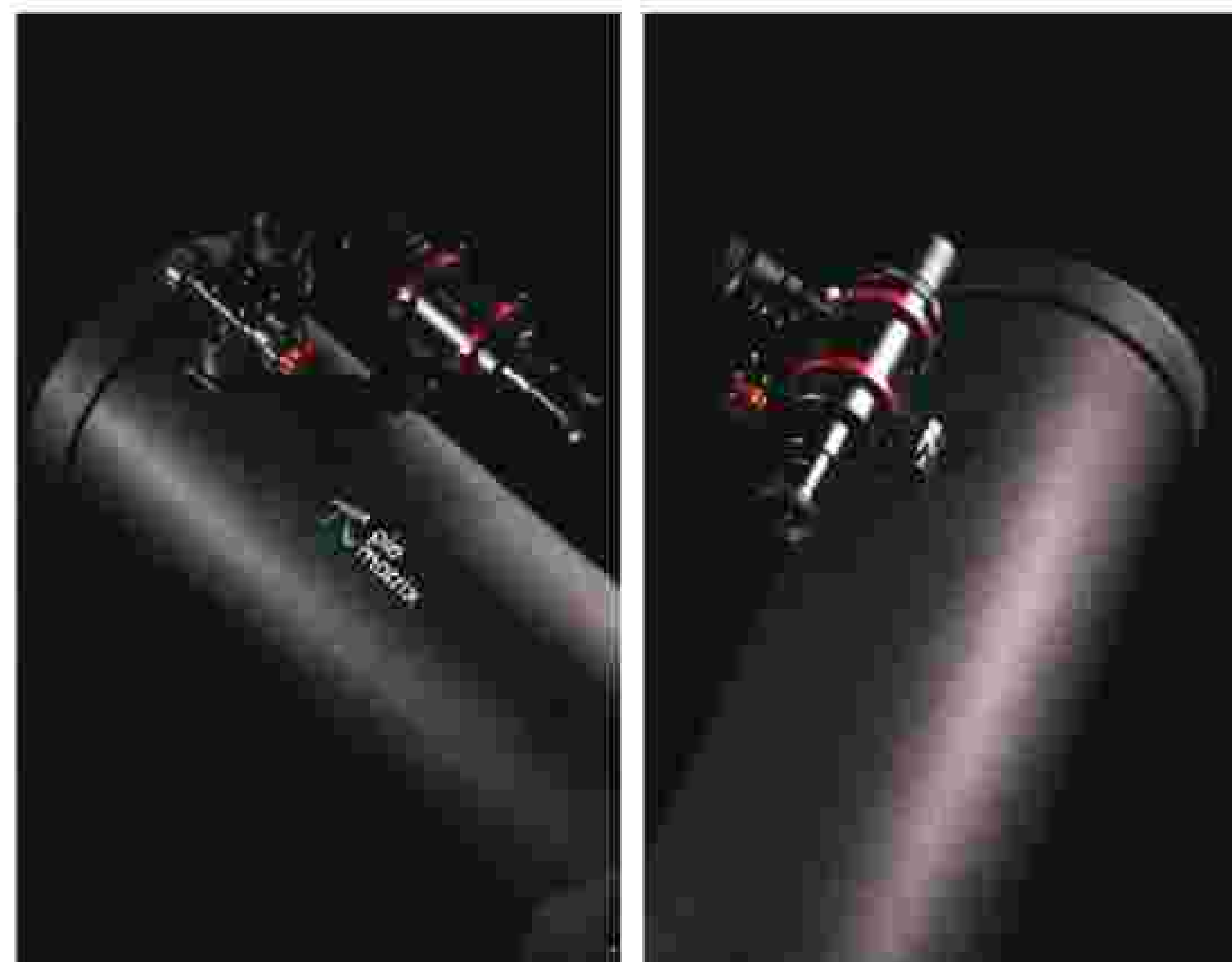
Eyepieces

2 IN 32 MM Kellner Eyepiece

High quality, fully multi coated, wide-angled

1.25" 10mm Plossl Eyepiece

Fully multi coated optics



Finder Scope

Type

8x50 fully multicoated achromatic finder with illuminator option

Finder scope Bracket

Quick release bracket with hand-tighten knob and hand-adjust collimation screws

Tracking Modes

Alt-Azimuth tracking

Alignment Procedure

AstroPilot (align on any three bright objects)

Focuser

Type

2" CG CNC machined metal 1:10 dual speed focuser with helical rack & pinion tooth with 1.25" adapter

Features

- Smooth focusing action
- Large load capacity (up to 3kgs)
- 2" compression ring and 2" to 1.25" adaptor with compression ring
- Tension adjustment and focus-lock thumbscrews

Technical Specifications

Optical Design

Reflector, Parabolic

Aperture

210mm, Parabolic Mirror

Focal Length

1300mm

Focal Ratio

f/6.2

Light Gathering Power

900x

Limiting Magnitude

13.71

Coating

Higher reflective aluminium coating with SiO2 protection

Resolution (Dawes Limit)

0.55in

Mount and Tripod

Mount Type

Dobsonian, MDF material, black

Tripod Material

MDF Wood

Physical Specifications

Net Weight

27kg

Gross Weight

28.5kg

What we can see through it:



Saturn



Galaxies



Jupiter Bands

Table Top Dobsonian

This table-top Dobsonian telescope offers excellent value for both beginner and intermediate astronomers, featuring a sturdy design, quality optics, and ease of use for clear night sky observations.

TABLE TOP 80MM DOB



Table Top Dobbs

Eyepiece

Eyepiece Sizes

1.25" F20, F6mm

Barlow

2X

Eyepiece 1

1.25" 20mm, 25X power

Eyepiece 2

1.25" 6mm, 83X power

Mount and Tripod

Mount Type

Table-Top dobsonian type,
MDF material, black

Tripod Material

MDF wood

Base

360° rotating dobsonian
base with eyepiece slots

Finderscope

Type

Electronic red dot finder



Focuser

Type

1.25" Helical Rack & Pinion

Physical Specifications

Finish

Black granite finish

Net Weight

4kg

Gross Weight

6.5kg

Dimensions

37cm x 37cm x 42cm

Package Size

49cm x 44cm x 34cm

Additional Features

Heavy duty secondary &
primary mirror cells

Extremely easy to setup
& use

Instructions manual
Included

Warranty: 2 Years

Technical Specifications

Optical Design

Reflector

Aperture

80mm, Spherical mirror

Focal Length

500mm

Focal Ratio

f/6.25

Coating

High reflective aluminum
coating with SiO2 protection

Resolution (Dawes Limit)

1.45"

Limiting Magnitude

11.6

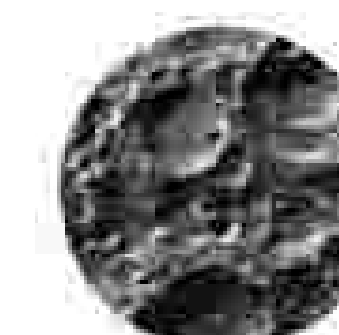
Light gathering Power vs naked eye

131X (without Barlow),
262 (with barlow)

What we can see through it:



Saturn



Moon Craters

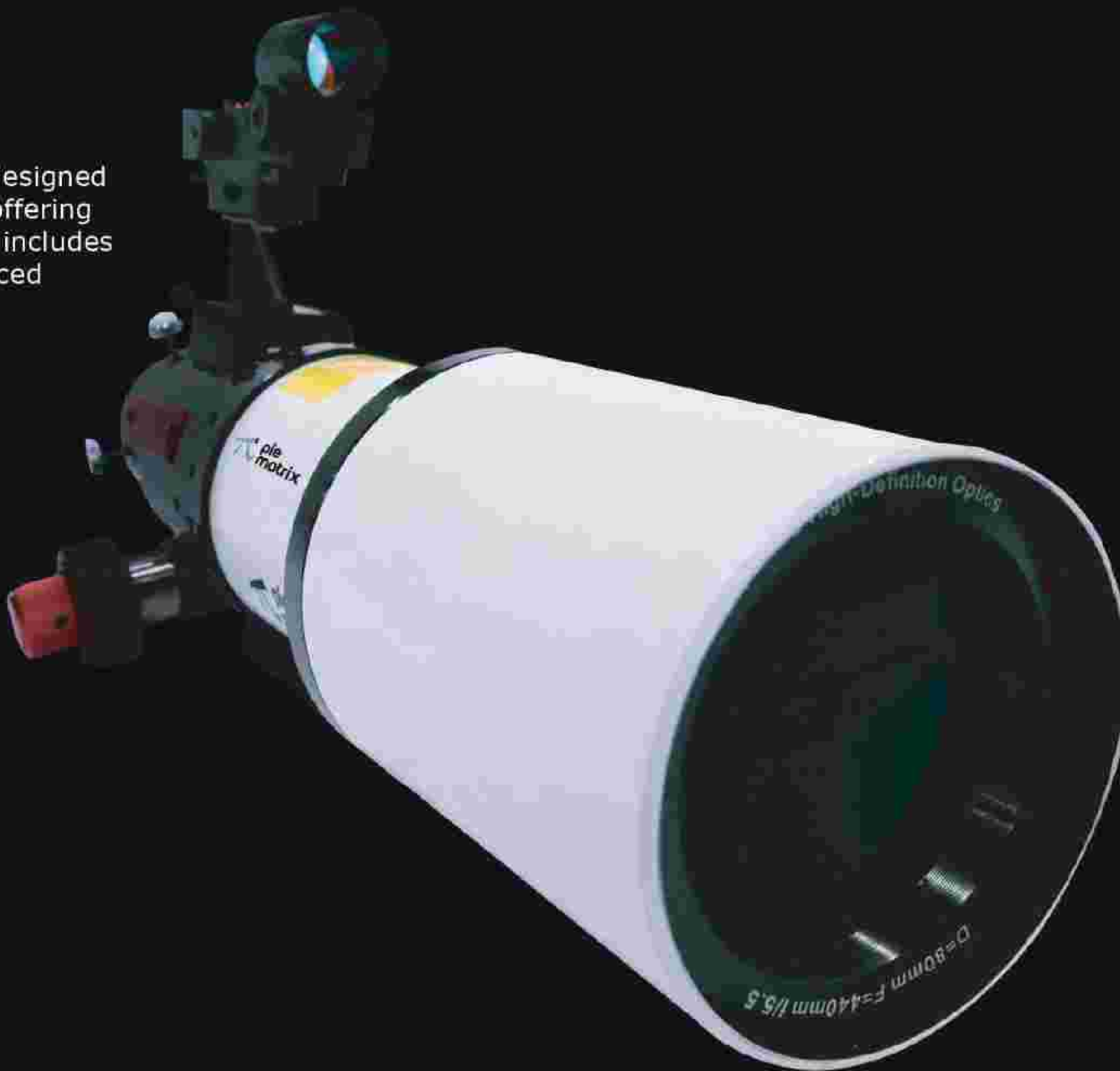


Jupiter Bands

ED Doublet Refractor OTA

This Pie Matrix 80mm ED Doublet Refractor is designed for both beginner and advanced astronomers, offering high-quality optics and durable construction. It includes essential accessories for a complete and enhanced stargazing experience.

ED805.5 OTA



ED Doublet



Eyepieces and Accessories

Mirror Diagonal
2" Mirror Diagonal with 99% Dielectric Coating

Finder scope
Red Dot/ achromatic optical finderscope(Optional)

Features

- CNC machined aluminum cradle rings
- Aluminum dew shield
- Vixen dovetail
- Metal dovetail finder shoe

Physical Specifications

Weight
4.6kg

Dimensions
44cm x 20cm x 31cm

Finish
Matte white finish on aluminum tube

Packaging

Case
Heavy duty padded nylon case for ultimate protection

Optical Specifications

Model
ED805.5 OTA

Optical Design
ED Doublet Refractor

Aperture
80mm (3.15in)

Focal Length
440mm

Focal Ratio
f/5.5

Lens
ED (Extra-low Dispersion) lens

Coating
Broadband Multi-Coated, fully coated optics

Resolution (Dawes Limit)
1.45in

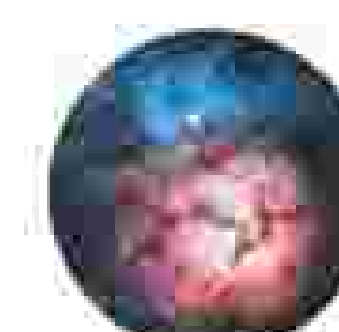
Limiting Magnitude
12.2

Light Gathering Power (vs naked eye)
131x

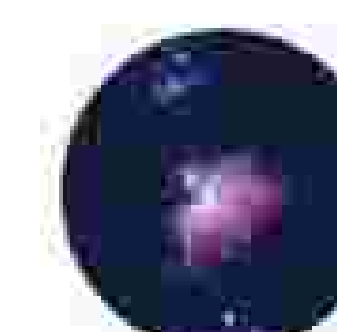
Focuser

Type
2" CG Dual Speed teethed helical Rack & Pinion Metal Focuser with 10:1 Micro Adjustments

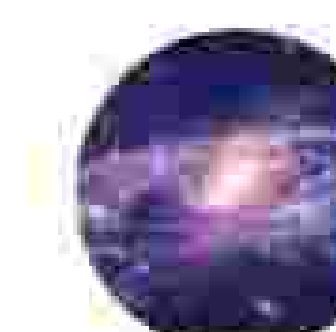
What we can see through it:



Nebula



Deep Sky Objects



Galaxy

Swift S8 Binocular

The Pie Matrix Swift S8 Binocular offers an ergonomic, open-bridge design with a central focusing knob for less weight and greater comfort.

SWIFT S8 10X42



**Fully
Multicoated**



**Roof
Prism**



**Waterproof
and Fogproof**



**ED Glass
Lenses**

Swift S8



The Swift S8 Black Binocular, has rubber armoring, multicoated lenses, BaK4 Roof Prisms, a broad field of vision, and a weatherproof design.

The Roof Prisms constructed of BaK 4 optical glass preserve genuine colours while the multicoated lenses boost transmission and image brightness. At a distance of 1000 yards, the wide 6.8° angular field of view allows you to see a 356' linear field, and the central focus and di-opter allow you to see fine details as close as 14.8'.



Technical Specifications

Product Name
Swift

Magnification
10x

Objective Diameter
50mm

Exit Pupil
4.2mm

Prism
BaK 4

Prism Type
Roof

Field of View
119m/1000m

Lens Coating
Fully Multi Coated

Colour
Black

Weight
800g

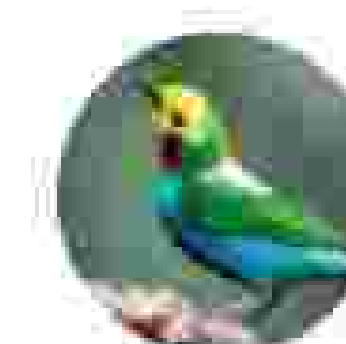
Material
Magnesium Alloy housing with Armoured Rubber



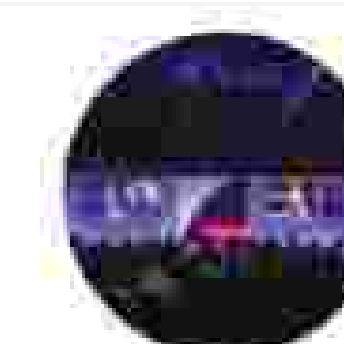
A KIT, OUT OF THE BOX



What we can see through it:



Bird Watching



Events



Wildlife

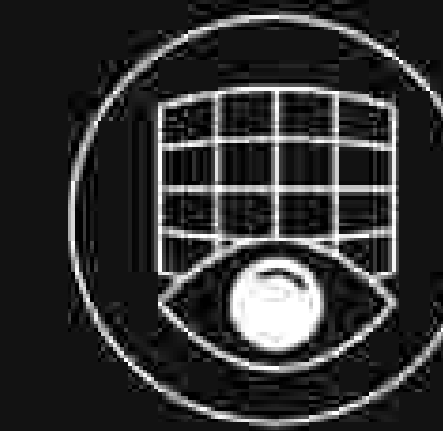
Sparrow Binocular

The 7x50 Sparrow from Pie Matrix features large objective lenses and multicoated optics to provide bright and crisp images.

SPARROW 7X50



**Multicoated
Optics**



**357' Field of view
at 1000 yd**



**13mm
Eye Relief**



**26.2'
Close Focus**

Sparrow



The BaK 4 Porro prism design offers a rich depth of view and contrast. This entry-level astronomical binocular will provide a clear view of the moon, meteor showers, or casual star-gazing.



Technical Specifications

Product Name
Sparrow

Magnification
7x

Objective Diameter
50mm

Exit Pupil
7.2mm

Prism
BaK 4

Prism Type
Porro

Field of View
119m/1000m

Lens Coating
Fully Multi Coated

Colour
Black

Weight
800g

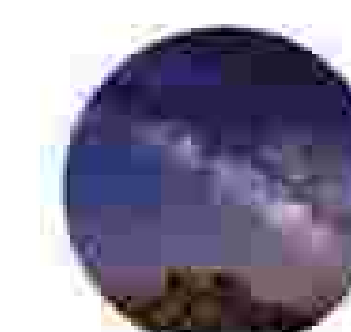
Material
Magnesium Alloy Housing
with Armoured Rubber



What we can see through it:



Bird Watching



Stargazing



Sports

Falcon Binocular

Designed as an ideal optic for wide-view astronomical or long range terrestrial observation, the Falcon 15x70 Binocular features their multi-coating system to reduce reflection and increase light transmission through the entire optical system. The porro prism configuration provides a rich depth of view and high contrast to draw users into an immersive observational experience.

FALCON F15 15X70



**Multicoated
Eco-Glass Lenses**



**High Quality
BaK 4 Prisms**



**Large aperture perfect
for low light conditions**



Armoured Rubber

Falcon



The combination of optical coatings, prism, and over-sized 70mm objectives produce high-contrast views that are bright and crisp with accurate color fidelity.

Falcon F15 15x70 is a powerful and feature-loaded binocular idealistic for deep-sky observations. Because of its weight, it must be equipped with our tripod for the best experience.



Technical Specifications

Product Name
Falcon

Magnification
15x

Objective Diameter
70mm

Exit Pupil
4.7mm

Prism
BaK 4

Prism Type
Porro

Field of View
123m/1000m

Lens Coating
Fully Multi Coated

Colour
Black

Weight
900g

Material
Magnesium Alloy Housing
with Armoured Rubber

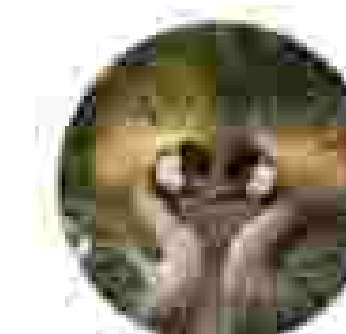
WHAT'S IN THE BOX



What we can see through it:



Stargazing



Wildlife



Bird Watching

Hawk Binocular

Designed for medium-range observations, ultra-lowlight conditions, and even stargazing, the black 10x50 Hawk Binocular from Pie Matrix offers features well beyond its class.

HAWK(10×50)

pie
matrix



**Multicoated
Eco-Glass Lenses**



**BaK 4
Roof Prisms**



**Promote contrast
and resolution**



**Wide apparent
angle of view: 55°**

Hawk



With the multi-coated optics and BaK 4 Porro prisms, you will get excellent transmission, resolution, and contrast when viewing land scapes, wildlife, or night skies.

Wide 50mm objectives provide bright images in low-light conditions. Multi-coated optics enhance transmission, image brightness, and resolution.



Technical Specifications

Product Name
Hawk

Magnification
10x

Objective Diameter
50mm

Exit Pupil
5mm

Prism
BaK 4

Prism Type
Porro

Field of View
91m/1000m

Lens Coating
Fully Multi Coated

Colour
Black

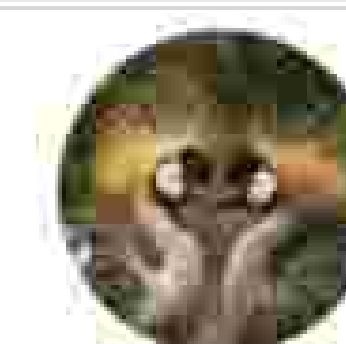
Weight
750g

Material
Magnesium Alloy Housing with Armoured Rubber

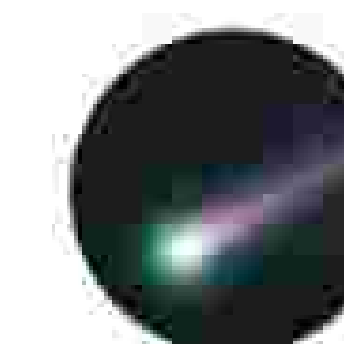
What we can see through it:



Stargazing



Wildlife



Comets

Eagle Eye Binocular

Discover breathtaking details with our 10-20x80 binoculars, designed for avid stargazers, birdwatchers, and outdoor enthusiasts. Featuring powerful 10x-20x magnification and large 80mm objective lenses, these binoculars offer exceptional light-gathering capabilities, delivering bright and clear images even in low-light conditions.

EAGLE EYE 10-20X80



**Multicoated
Eco-Glass Lenses**



**High Quality
BaK 4 Prisms**



**Large aperture perfect
for low light conditions**



**Magnesium Alloy Housing
with Armoured Rubber**

Eagle Eye



Technical Specifications

Product Name
Eagle Eye

Magnification
20x

Objective Lens Diameter
80mm

Exit Pupil Diameter
4mm

Relative Brightness
16

Twilight Factor
40

Eye Relief
15mm

Field of view
Real: 2.9°
Apparent: 58°
Real: 52m
Real: 156ft

Close Focusing Distance
15

Diopter compensation
3

Interpupillary Distance
58-72

Prism System
Porro

Prism Glass
BaK 4

Lens and Prism Coating
FMC

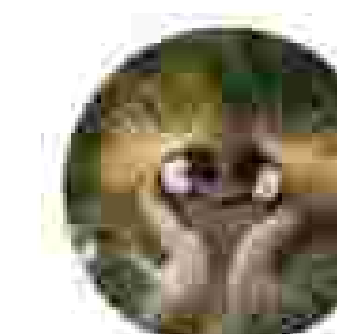
Adapt to Tripod
Yes

Weight
2700g

What we can see through it:



Stargazing



Wildlife



Bird Watching

Willow Binocular

Ever wanted to see the world through a bird's eye view? Now you can, with Pie Matrix Willow Binoculars. With these binoculars, you can see the world from above. It is perfect for bird watchers, hikers, explorers.

WILLOW BINOCULARS 10X22



10x Magnification



**Compact and
Lightweight**



Rain Proof



Durability

Willow



Red



Black

Willow Binoculars have a magnification of 10x and an objective diameter of 22 mm, which means that you will be able to see things in more detail than you would with a lower magnification.

The Willow Binoculars are made from BaK 4 prisms, ensuring that the image you see is clear and sharp. These binoculars also have roof prisms, which you can easily use when looking at objects close up or far away.



Technical Specifications

Product Length

6.3cm

Product Width

2.5cm

Product Height

11cm

Product Weight

185g

Colour

Black

Net Qty

1 U

Material

ABS Rubber

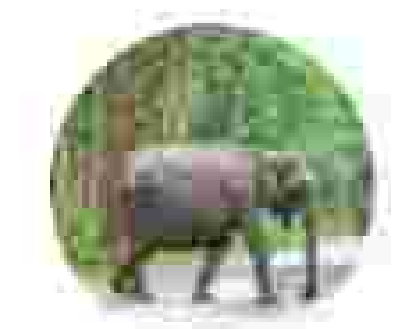
What we can see through it:



Bird Watching



Events



Wildlife Spotting

ED Binocular

This Pie Matrix 8x42 ED Binoculars combines high optical performance with durable construction, making it suitable for various outdoor activities. Its advanced features ensure an exceptional viewing experience for both casual and dedicated users.

ED BINOCULAR 8x42



8x Magnification



**Multi-Coated Optics:
Extra Low Dispersion Lens**



Waterproof



BaK 4

ED

Construction Details

Dimensions

130mm x 56mm x 160mm

Weight

715g

Body

Slip-resistant rubber armoring

Waterproof and Fogproof

O-ring sealed and Nitrogen-filled for complete waterproof protection (IPX7 rating)

Use and Handling

Focus System

Center

Focusing Lens

Internal

Interpupillary Distance

56mm to 74mm

Eyecup System

Twist-up

Waterproof

IPX7

Accessories

- Padded Case
- Strap
- Cleaning Cloth
- Silica Gel



Additional Features

Broadband Multi-Coated Optics

Both objective lens and eyepiece adopt true full-bandwidth multi-layer anti-reflection green coating for up to 95% light transmission.

Large Objective Lens

42mm large objective lens for brighter and more transparent imaging.

Aspheric and Wide Angle Eyepiece

More comfortable viewing with a 6.3° wide field of view.

Anti-Slip Adjustment Handwheel

Ergonomic design with anti-slip stripes

Dual Focus Capability

Compact and user-friendly with focus knob and diopter rings.

HD Vision and Comfortable Viewing

Can be connected to a mobile phone clip for taking photos and videos.

2m Near-Focus Ability

Ideal for close-range viewing such as observing insects.

Technical Specifications

Power

8X

Objective Lens Diameter

42mm

Type of Prism

BaK 4

Number of Lens

6 pieces in 4 groups

Lens Coating

Fully Multi-Coated (FMC) with FBMC on both objective lens and eyepiece

Exit Pupil Diameter

5.2mm

Exit Pupil Distance

17.2mm

Field of View

- Degrees: 6.3°
- Feet at 1000 yards: 331ft
- Meters at 1000 meters: 110m

Minimum Focal Length

2m

Relative Brightness

27.04

Twilight Index

18.3

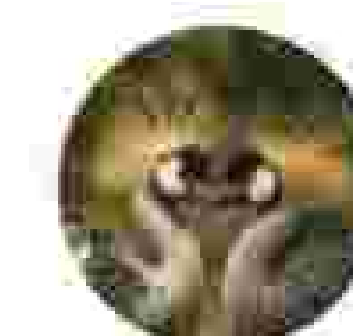
Diopter System

Right Eyepiece, ±5

What we can see through it:



Stargazing



Wildlife



Bird Watching

Dove Binocular

Our 8X21 Binoculars are more than just a tool; they're a gateway to the great outdoors, encouraging children to explore, learn and connect with the world around them.

DOVE BINOCULAR 8X21



8x Magnification



**Compact and
Lightweight**



Waterproof



Durability

Dove



Whether it's observing wildlife, gazing at the stars, or discovering the beauty of their surroundings, these binoculars are the perfect companion for young explorers.

Equip your child with the gift of exploration today. Order our 8X21 Binoculars and watch as their sense of wonder blossoms with every adventure. The world is waiting to be discovered! it is a water proof binocular that makes it more useful in most of the situations.



WATERPROOF



Technical Specifications

Product Length
11.1cm

Product Width
3.8cm

Product Height
12cm

Product Weight
168g

Colour
Red

Net Qty
1 U

Material
ABS Rubber

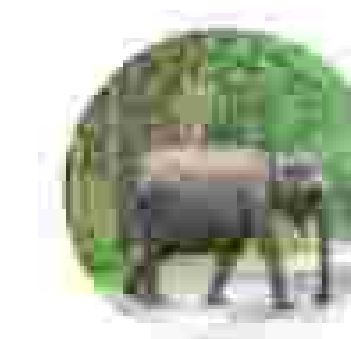
What we can see through it:



Bird Watching



Events



Wildlife Spotting

Sight Master Spotting Scope

This spotting scope combines high optical performance with durable construction, making it ideal for various outdoor activities such as bird watching, wildlife observation, and scenic viewing. The included features ensure ease of use and adaptability for different viewing conditions.

SIGHT MASTER SPOTTING SCOPE 20-60X80



Eyecup



Lens Shade



**Mounting
Foot**



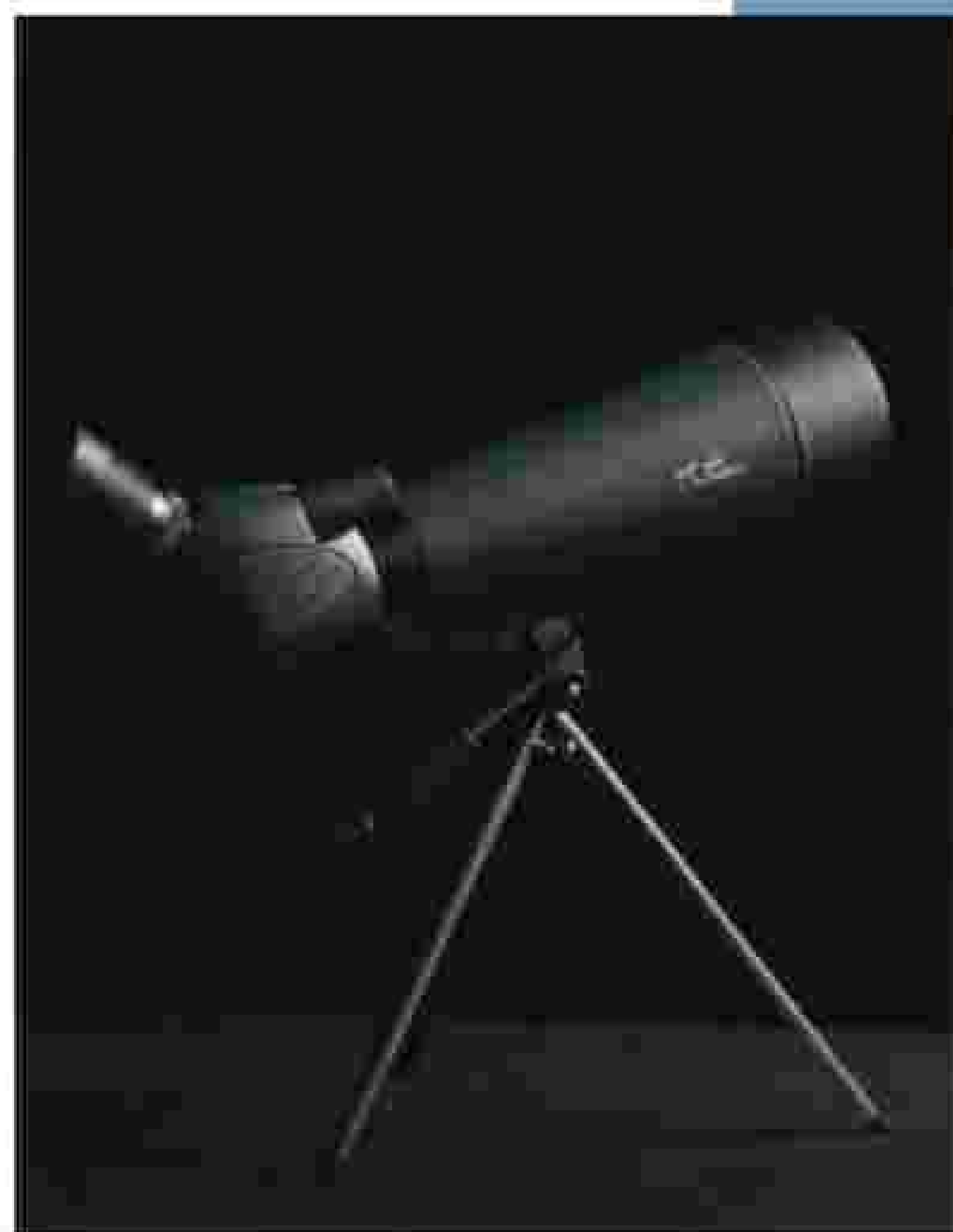
**Phone
Holder**

Sight Master



With the multi-coated optics and BaK 4 Porro prisms, you will get excellent transmission, resolution, and contrast when viewing land scapes, wildlife, or night skies.

Wide 80mm objectives provide bright images in low-light conditions. Multi-coated optics enhance transmission, image brightness, and resolution.



Technical Specifications

Power
20X-60X

Objective Lens Diameter
80mm

Prism Material
BaK 4

Prism Type
Porro

Number of Lens
8 Pcs/5 Groups

Lens Coating
Fully Multi-Coated (FMC)
Green Optical Coating

Exit Pupil Diameter
4-1.3mm

Exit Pupil Distance
13.5-11mm

Field of View
1.9-0.95°
(ft/1000 yds): 99-49.5ft
(m/1000 m): 14.5-12m

Minimum Focal Length
10m

Relative Brightness
10-1.1

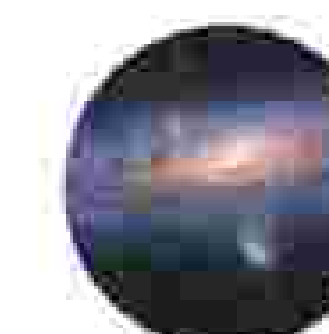
What we can see through it:



Bird Watching



Travel



Astronomy

Parallelogram Mount

A parallelogram mount is a type of mounting system used primarily for binoculars and sometimes small telescopes. It is designed to allow smooth, stable movement and positioning of the optical instrument while maintaining the orientation of the eyepiece relative to the observer. Here are the key features and benefits of a parallelogram mount:

Design and Structure

Parallelogram Shape: The mount consists of a series of parallel arms connected in a way that forms a parallelogram shape. These arms are usually made of metal for stability and strength.

Counterweights: Often includes counterweights to balance the weight of the binoculars or telescope, making the system easier to maneuver.

Pivot Points: Multiple pivot points allow the instrument to move up, down, left, right, and even rotate without changing the eyepiece's orientation relative to the user.

Functionality

Smooth Movement: The parallelogram design enables smooth and precise movement, allowing users to scan the sky or landscape without jerky or uneven motions.

Adjustable Height: The mount can be adjusted for different viewing heights, making it comfortable for observers of varying heights to use while standing or sitting.



Observational Accessories



**Kelner Eyepiece
6mm**



**Kelner Eyepiece
10mm**



**Infrared View
Finder Scope**

Astrophotography Accessories



Solar Filter



**Premium
Moon Filter**



**Cell Phone
Adapter**

Technology Advances



Balor Lenses

**Double Side
Silver Coater
Zenith Mirror**



**Heavily Padded
Travel Case**



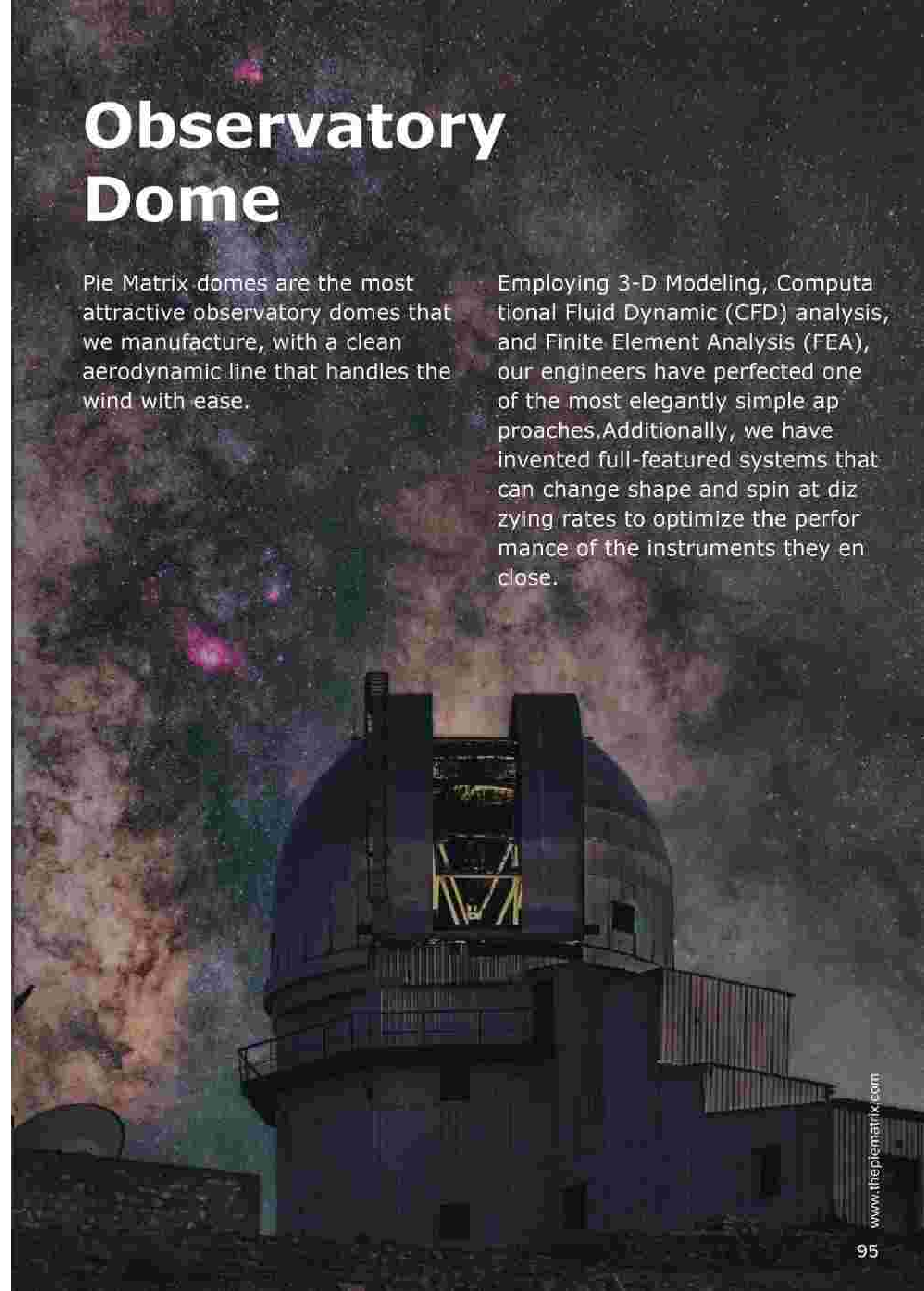
**Scratch Proof
Black Tripod**



Observatory Dome

Pie Matrix domes are the most attractive observatory domes that we manufacture, with a clean aerodynamic line that handles the wind with ease.

Employing 3-D Modeling, Computational Fluid Dynamic (CFD) analysis, and Finite Element Analysis (FEA), our engineers have perfected one of the most elegantly simple approaches. Additionally, we have invented full-featured systems that can change shape and spin at dizzying rates to optimize the performance of the instruments they enclose.



Personal Observatory Dome

The PIE MATRIX Observatory Dome provides high-quality, secure, and practical housing for your telescope. Providing excellent weather protection for you and your equipment, it allows you to have your instrument ready for use at all times.

Whether imaging or visual, having the convenience of a permanent setup adds significantly to your enjoyment of exploring the night sky.

Features:

- Finest quality, weatherproof GRP finish.
- High-quality locking system.
- Simple design for self-assembly Suitable for instruments up to at least 12" Aperture.
- Idealistic for Personal and Home use.
- Completely motorised for automatic rotation.



Commercial Observatory Dome

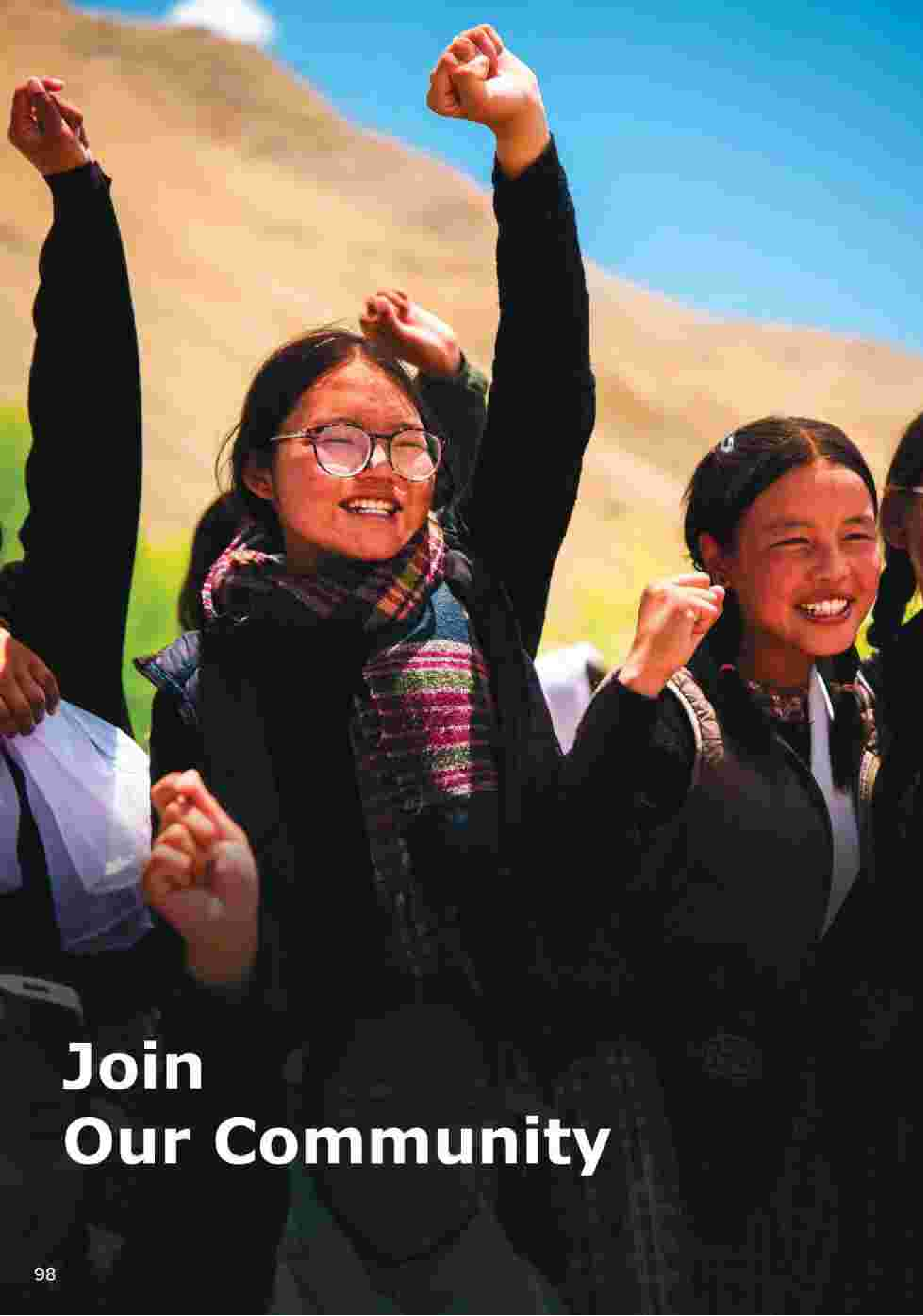
The Clamshell dome offers an unparalleled 360/180-degree field of view, with a stunningly immersive night-sky experience. When this observatory dome opens up, you seem to walk in a garden of stars.

The clamshell dome is the preferred observatory dome for laser communication and giant aperture telescopes. clamshell domes are equipped with solid belt-drive systems, employing industry-grade gearboxes driven by powerful electric DC or AC motors.

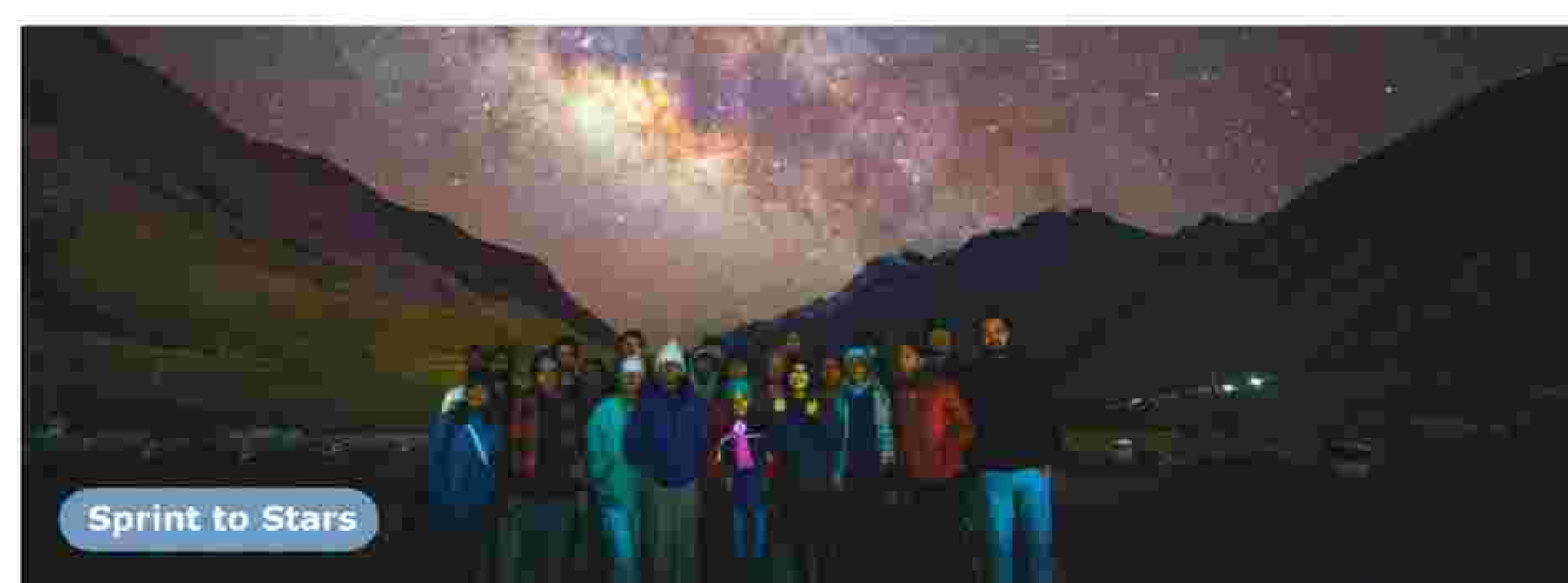
Features:

- This dome offers an unparalleled 180/360 degrees unrestricted field of view.
- A strong 24VDC based belt drive system for both shutters guarantees reliable operation, under all circumstances.
- Fully automatic construction with two independently moving shutters.





**Join
Our Community**



Sprint to Stars



Hamleys Wonderland



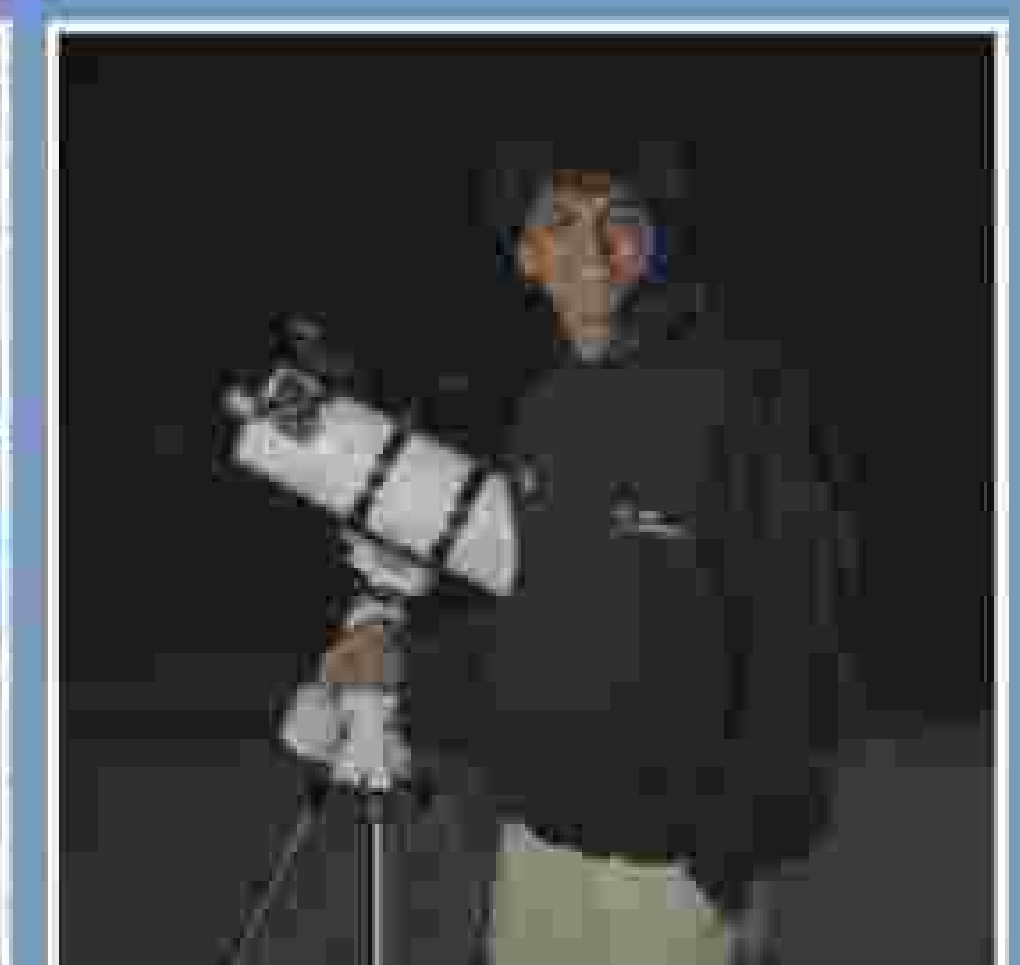
Comicon 2023



IIT - Tryst

Media Coverage

At Pie Matrix, we're proud to have been featured in a variety of respected publications and media outlets. Here's a look at what the world is saying about us.







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