

ED Apo Binoculars

120 mm - 45°

on High Quality Tripod



proudly offered by



APM
TELESCOPES

Instruction Manual

Congratulations on your purchase of one of our quality binocular products. With these **binoculars** from **APM Telescopes** on a **high quality tripod** you have opted for a product that will meet all

your requirements.

Proper handling and care is prerequisite for maintaining the high quality of your new equipment. Please read this manual carefully before assembling the equipment.

Features at a glance



Features of the Binoculars

The APM Telescopes APO binoculars use high-quality **FPL-53 SD glass** and so-called **BAK-4 prisms** for high contrast and sharp images across the entire field. Additional **special coatings** on all optical surfaces further enhance the image quality and ensure true-to-life colors. This allows you to see the smallest details.

The APM Telescopes APO binoculars have a **magnesium housing**. It is one of the lightest of all metals. Despite its low weight, it is very stable and corrosion is not possible.

The APM Telescopes APO binoculars are filled with harmless nitrogen gas during manufacture. This prevents the ingress of water, thus making it **water-resistant**. You do not have to worry if your binoculars get wet. If it gets wet, just let it dry at home and it is ready for use again. By the way the nitrogen **protects your binoculars against lens fungus**.

The APM Telescopes APO binoculars have **1¼" standard eyepiece receptacles** so that the eyepieces can be changed and **different magnifications** can be achieved. The focal position was chosen such that Tele Vue Delos, Nagler, Panoptic eyepieces and the Docter 12.5 mm UWA eyepiece can be focused.

Features of the Tripod

The supplied tripod is very **stable** and **simple to handle**. It easily carries your new APM Telescopes APO binoculars.

The tripod legs have segments, so you can adjust the **height of the tripod** to your needs in every situation.

Features of the Center Mount

The stable center mount connects your APM Telescopes APO binoculars to the tripod via a **standard 3/8" connector**. It allows free and precise **horizontal and vertical movements**.



Assembly

First pull the tripod legs off by loosening the locking screws on the legs and the center column (if applicable) and locking them in a suitable height. Then position the lower, cylindrical part of the center mount and screw the tripod's 3/8" screw into the thread in the foot of the center mount. Afterwards you can insert the shaft into the lower part. Now fit the binoculars tripod adapter at the bottom of the bridge to the center mount arm and tighten the screw. Then push the two supplied eyepieces into the eyepiece receptacles, clamp them firmly with the smaller of the two rings at the receptacle. Then set the appropriate interpupillary distance by using the fluted levers at the receptacles and push the eyepieces apart or together until they are at the right distance. The distance is set correctly, as soon as a relaxed view through the glass is possible. Thereafter, the binoculars are prepared for observation.



Focusing

The APM Telescopes APO binoculars have a so called single-eyepiece focus system. This gives you the opportunity to set the focus individually for each eye. All you need to do is to focus one eyepiece by turning the **focusing ring**, that is the wider of the two rings, until the image is sharp. Repeat the procedure for the second eyepiece. When you perform the operation on a medium far object, more distant ones are automatically sharp. By the way, differences in the visual performance of the eyes are automatically compensated for. Of course, APM Telescopes APO binoculars have a diopter compensation, that allows for individual focusing at infinity.



The Eyepieces

The basic equipment of APM Telescopes APO binoculars includes two 18 mm eyepieces, which result in a magnification of 37-fold. Eyepieces with longer focal lengths result in lower such with shorter focal length in higher magnifications.



Slidable Dew Shields

APM Telescopes APO binoculars possess slidable dew shields. Pull them out during observations to prevent the lenses from fogging or stray light from falling in from the side.



Lens and Eyepiece caps

You should always protect your objective and eyepiece lenses with the supplied protective caps against dust and scratches. Remove them only when observing.

Carrying Handle with Sighting Device

The APM Telescopes APO binoculars have a carrying handle integrated in the bridge for easy transport. The carrying handle is also designed as a sighting device, so that objects can be easily positioned. The two threads are suitable to receive the red dot finder.



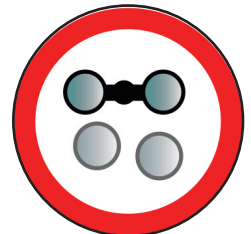
Care and Maintenance

Too much is too much: Please clean your APM Telescopes APO binoculars only if it is visibly soiled. First remove loose dust with an optical brush or bellows. This will avoid scratches. After that you should clean the dirty lens with a damp eyeglass cleaning cloth, microfiber cloth or cleaning swab. Please clean inside out.

Customer Safety Advisory Notice

You must not look directly into the sun with your APM Telescopes APO binoculars. You may immediately suffer irreparable eye damage, which can lead to blindness.

Only if the binoculars are equipped with lens filters certified for solar observation, the sun can be safely observed. We are happy to advise you.

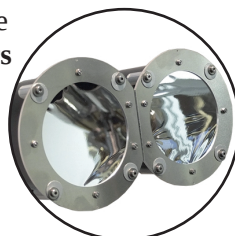


Accessories

Red Dot Finder with coated glass screen and matching viewfinder shoe for easy installation.



Ready to use **Solar Filters** from Euro EMC .



Azimuthal Fork Mount for optimal tracking and observations to the zenith. 3/8" mounting thread. Also with AMT encoder / Nexus controller available.



Technical Specifications:

Optical Characteristic

Viewing angle	45°
Focal length	660 mm
Objective diameter	120 mm
#Elements / #Groups	2 E / 2 G
Field of view	Max. 2.4°
Lens coating	Fully multicoated
Prism type	Roof prism
Eyepieces included / magnification	2×18 mm Ultra Flat Field / 37×
Diameter field stop	28 mm
Glass type of prisms	BaK4

Mechanical Characteristic

Interpupillary distance	54 mm – 75 mm
Focus type	Individual eyepiece focus

Environmental Characteristic

Water resistance	Yes
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Dimensional

Length × Width × Height	650 mm × 286 mm × 180 mm
Weight (incl. tripod adapter, without eyepieces)	9 kg

Special features

Dew shields	Slidable
Dew shields thread	M 130 × 1-6H, 5 mm depth
Body material	Aluminium-Magnesium alloy
Body color	Gray
Tripod adapter thread	3/8" and 1/4"
Nitrogen fill	Yes

Warranty Card

120 mm - 45° ED Binoculars with Tripod

Serial no.

Purchase date

Purchased at

Name:

Your address:



:

E-Mail:

Description of malfunction:

APM-Telescopes Service & Logistik Center

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Öffnungszeiten

Montag - Freitag: 9:00 Uhr - 17:00 Uhr

Donnerstag: 9:00 Uhr - 18:00 Uhr

Samstag: nach Vereinbarung