

Apo Spotting Scope 25–75 × 95 mm on High Quality Tripod



proudly offered by



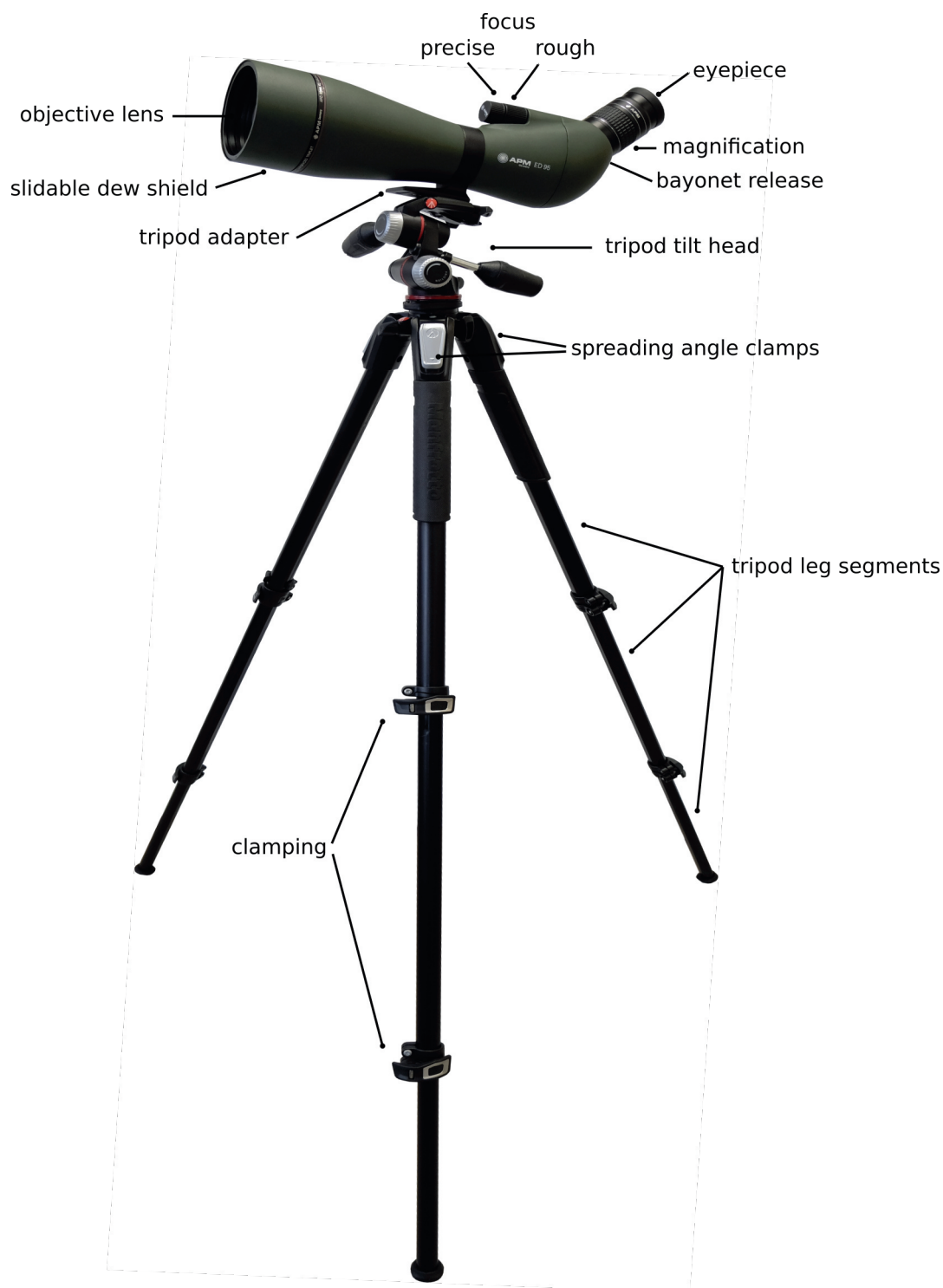
APM
TELESCOPES

Instruction Manual

Congratulations on your purchase of one of our quality spotting scopes. With **an APO spotting scope** 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 Spotting Scope

The APM Telescope APO spotting scope features a **triplet objective** with 3 elements in 3 groups, which provides a highly corrected image, excellent optical performance and high-fidelity true-colour images. In addition high-quality **BaK4** prisms were used for a correct image orientation. The optics are fully **broadband multi-coated** throughout for maximum light transmission and contrast. This allows you to see the smallest details.

The APM Telescopes APO spotting scope has a housing made from **aluminium-magnesium alloy**. It is a very lightweight material. Despite its low weight, it is very stable and corrosion is not possible. Nonetheless we recommend the use of a tripod.

The APM Telescopes APO spotting scope is 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 spotting scope gets 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 spotting scope against fogging from inside and lens fungus**.

The APM Telescopes APO spotting scope has a **zoom eyepiece**, which yields different magnifications. It consists of 8 elements in 5 groups and, of course, is multicoated. It is offered with a 45° view. This provides a **comfortable view** into the scope during nature observations.

Features of the Tripod

The supplied tripod is very stable and simple to handle. It easily carries your new APM Telescopes APO spotting scope. The tripod legs have segments, so you can adjust the height of the tripod to your needs in every situation.

Assembly

First pull the tripod legs off by loosening the clampings on the legs and the center column (if applicable) and locking them in a suitable height. Next, adjust the spreading angle by loosening the locking clamps and spreading the legs outward (depending on tripod). Then screw in the tripod standard 1/4" or 3/8" connector into the thread at the bottom of the tripod adapter.

The eyepiece is connected to the spotting scope via a bayonet connector and can be removed for a safe transport. To insert the eyepiece put it into the bayonet and turn it clockwise until it clicks into place. To remove the eyepiece push the knob below the bayonet and turn it counterclockwise.

The eyecup can be rotated. Adjust it so that you can overlook the entire field of view. The eyecup gives you a comfortable support at the right distance.

Focusing

The APM Telescopes APO spotting scope has a precise and smooth focusing due to an internal **porro prism focusing system with 4:1 reduction**: First, adjust the focus roughly with the inner knob, in order to then sensitively find the exact focus with the outer knob. A change in magnification hardly shifts the focus and can be corrected by fine refocusing with the fine adjustment.

Zoom-Eyepiece

The APM Telescopes APO spotting scope has a zoom eyepiece with a variable focal length between 22.6 mm and 7.63 mm, which yields **magnifications between 25× and 75×**. For orientation, markings are attached at certain magnifications. Just turn the rubberized ring at the eyepiece to get the magnification suitable for your observing situation.

According to the magnification the eye relief varies between 20 mm and 18 mm. Thus perfectly suited for wearer of glasses.



Slidable Dew Shield

The APM Telescopes APO spotting scope possesses a slidable dew shield to protect the objective lens from fogging by dew. It can be inserted for transport.



Lens and Eyepiece caps

You should always protect the objective and eyepiece lenses with the supplied protective caps against dust and scratches so you can enjoy watching with your APM Telescopes APO spotting scope for a long time. The bayonet connector should always be closed with the protective cap when the eyepiece is removed.

Ready Case

The APM Telescopes APO spotting scope is safe in the ready case from minor bumps and weather hazards and still remains fully functional, thanks to the removable lens and eyepiece protection and the protective flap over the focusing knob.



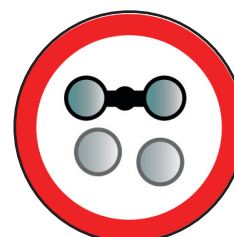
Care and Maintenance

Too much is too much: Please clean your APM Telescopes APO spotting scope 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 spotting scope. You may immediately suffer irreparable eye damage, which can lead to blindness.

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



Accessories

With this **adapter for 1.25" eyepieces** you can use your own eyepieces with the spotting scope and realize different magnifications. The adapter is simply tacked to the spotting scope instead of the supplied zoom-eyepiece and ready to take your own eyepiece. Suitable eyepieces are e.g. the Ultra Flat Field eyepieces with focal lengths between 10 mm and 24 mm or the XWA 3.5 mm and 5 mm from APM Telescopes.



This **M42x0.75 projection-adapter** enables you to use a DSLR or CCD camera with your spotting scope. It is simply pushed over the eyepiece and fixed with clamping screws. The M42 thread on the camera side can be directly connected to a camera or via a T2-ring adapter, which is also available from APM Telescopes.



Technical Specifications:

Optical Characteristic

Magnification	25 – 75
Objective diameter	95 mm
Focal length	554.2 mm
Focal length eyepiece	22.6 mm – 7.63 mm
Exit pupil diameter	3.9 mm – 1.3 mm
#Elements / #Groups (eyepiece)	3 E / 3 G (8 E / 5 G)
Field of view	1.8° – 0.9°
Apparent field of view	44° – 68°
Field of view at 1000 m	31 m – 16 m
Field of view at 1000 yards	93ft – 48 ft
Eye relief	20 mm – 18 mm
Minimum focusing distance	6.5 m
Lens coating	Fully multicoated
Prism type	Porro prism
Glass type of prisms	BaK4

Mechanical Characteristic

Diopter compensation	no
Focus type	Internal porro prism focusing system

Environmental Characteristic

Water resistance	Yes
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Dimensional

Length	466 mm
Weight	2330 g

Special features

Rubber armoring	Yes
Body material	Aluminium-Magnesium alloy
Body color	Green
Carrying bag	Yes
Rotatable eyecup	Yes
Protective caps for objective lens and eyepiece	Yes
Dew shield	Yes
Tripod adapter made of metal	Yes
Tripod adapter thread	3/8" and 1/4"
Nitrogen fill	Yes

Warranty Card

APO Spotting Scope 25-75×95 mm 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