

TECHNAXX® * User Manual

Telescope TX-175

Before using the device the first time, please read the user manual carefully.

Service phone No. for technical support: 01805 012643 (14 cent/minute from German fixed-line and 42 cent/minute from mobile networks).

Free Email: **support@technaxx.de**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capacities, or by persons lacking in experience or knowledge, unless they are supervised or instructed on the use of this device by a person responsible for their safety. Children should be supervised to ensure they do not play with this device.

Keep this user manual for future reference or product sharing carefully. Do the same with the original accessories for this product. In case of warranty, please contact the dealer or the store where you bought this product.

Warranty 2 years

Enjoy your product * Share your experience and opinion on one of the well-known internet portals.

Features

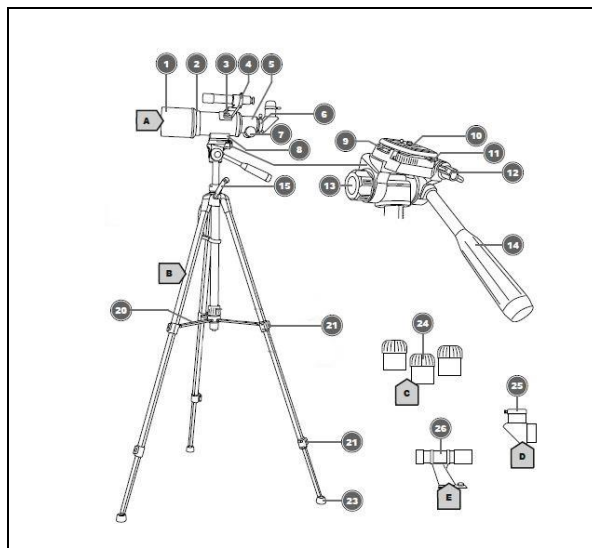
- Coated objective lenses
- Solid tube
- Height adjustable tripod with handle

Parts list

3 x Eyepieces	H6mm, H12.5mm, H20mm
1 x Reversing lens	1,5 x
1x 45° prism	For upright picture
1 x Barlow lens	For better pictures, change focal length 3 times
1 x Telescope	Ø70 focal length 300mm
1 x Tripod	max. 125cm
1 x Viewfinder Telescope	5 x 24
1 x Green light filtre	Enables a strong contrast enhancement e.g. on the moon
1 x Sunlight filter	Reduction of sunlight
Weight/Dimensions	1.8kg / 45 x 45 x 11cm



Product overview



1	Dew shield
2	Objective lens
3	Fixing screw
4	Holder for finder scope
5	Eyepiece extension
6	Eyepiece holder
7	Focus wheel
8	Mounting connection
9	spirit level
10	Screw
11	Locking lever

12	Fixing screw	13	Fixing screw
14	Handle	15	Crank screw (adjust height)
20	Strut	21	Clamping lever
23	Rubber foot		

Site location

Choose a dark location to avoid an interference of dark adaption throughout lights. A flat and stable surface is recommended. Do not observe from closed rooms. Approx. 30 minutes before starting an observation, position the telescope and the accessories on the desired location to allow a temperature compensation.

Setting up the tripod

Pull out the tripod legs slowly until the tripod bridge is opened completely. Open the clamping lever for the tripod legs. Pull out the tripod legs to the desired height. Make sure that the bubble of the circular level is in the middle of the circle to ensure a horizontal plane stand. Close the clamping lever for the tripod legs. Loosen the locking screw for the height adjustment. Pull out the tripod head to the desired height. Tighten the locking screw for the height adjustment by hand.

Mounting the Telescope on the Tripod

Screw the threaded bolt of the tripod head plate into the mounting connection of the Telescope to attach.

Make sure that the objective lens is pointing to the opposite side of the handle.



Mounting the scope finder

Loosen fixing screws.

Insert the desired accessory into the eyepiece holder.

Tighten the fixing screw by hand that the accessory is fixed in a secure way.

Using eyepieces

The magnification range depends on the focal length of the telescope and the eyepieces. The magnification can be varied by changing the eyepieces.

Example:

Focal length telescope : Eyepiece focal length = Magnification

300mm : 6mm = 50x

Use an eyepiece with higher focal length (= lower magnification) when starting an observation.

Using the prism

The prism will be attached to the telescope between the eyepiece holder and the eyepiece. It allows for an image reversal to an upright image.

Using Barlow Lens 3X

A Barlow lens is an optical component that is inserted between the eyepiece and the focuser. Inside it is a minus lens that artificially extends the focal length of the telescope.

The focal length of the telescope is 300mm, in combination with the Barlow lens 3X the focal length is extended by a factor of 3.

Focal length: 300mm + Barlow lens 3X corresponds to a focal length of 900mm.

900mm: 6mm = 150 times magnification.

A Barlow lens is an additional component that contains lenses. Each lens reflects light and absorbs it additionally in the lens material. This results in less light reaching the eye. Therefore, you should consider when a Barlow lens makes sense, e.g. for planetary photography.

Using erection eyepiece 1,5X

this lens can be used either directly in the tube or in combination with the prism. Note that the magnification factor increases by 1.5 times, e.g. 300mm:20=50 *1.5=75 times magnification.

Viewfinder

Image reversal



Our viewfinder does not have an integrated optical image reversal. In this case, the image is visible upside down when looking through the viewfinder. This is not an error!

Observation

Point the telescope at the desired object (e.g. the moon) and look through the viewfinder. Use the telescope's horizontal and vertical adjustment to centre the object in the middle of the viewfinder's hair cross. Look through the eyepiece for an enlarged view of the object. If necessary, adjust the image sharpness by turning the focussing wheel. The magnification can be enhanced by the change from an eyepiece with a high focal length (e.g. 20mm) to an eyepiece with a lower focal (12.5mm) length.

Trouble shooting

No Image	Remove the caps, change the eyepiece
Blurry image	Adjust the sharpness by turning the focus wheel.
Bad image	Do not observe through glass, clean lenses

Care and maintenance

Clean the device only with a dry or slightly damp, lint-free cloth. Do not use abrasive cleaners to clean the device. This device is a high-precision optical instrument, so in order to avoid damage, please avoid the following practice: ●Use the device in ultra-high or ultra-low temperature. ●Keep it or use it in moist environment for long. ●Use it in rainfalls or in water. ●Deliver or use it in strongly shocking environment. ●Avoid fingerprints on optics

Hints

● The device is intended exclusively for private and not for commercial use. ●Only use this device as described in this user manual. ●Do not place any part of this device in water or any other liquid. ● Do not handle the device with wet hands. ●Prevent it comes into contact with hot surfaces or high humidity. ●Keep it away from heat sources to avoid deformation of plastic parts. ●Never take the objective out of its socket and do not modify its adjustment

Safety Instructions

● Never look through this device directly at or near the sun. There is a



risk of BLINDING YOURSELF! ●Children should only use this device under supervision. ●Keep packaging materials (plastic bags, rubber bands, etc.) away from children. There is a risk of SUFFOCATION. ●Never subject the device - especially the lenses - to direct sunlight. Light ray concentration can cause fires and/or burns. ● Never take the device apart. Please consult your dealer if there are any defects. The dealer will contact our service centre and send the device in for repair if needed. ●Do not expose the device to high temperatures. ● The device is intended only for private use. ● Please heed the privacy of other people. ● Do not use this device to look into apartments, for example.

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