SEBEN

User's manual

1200/90

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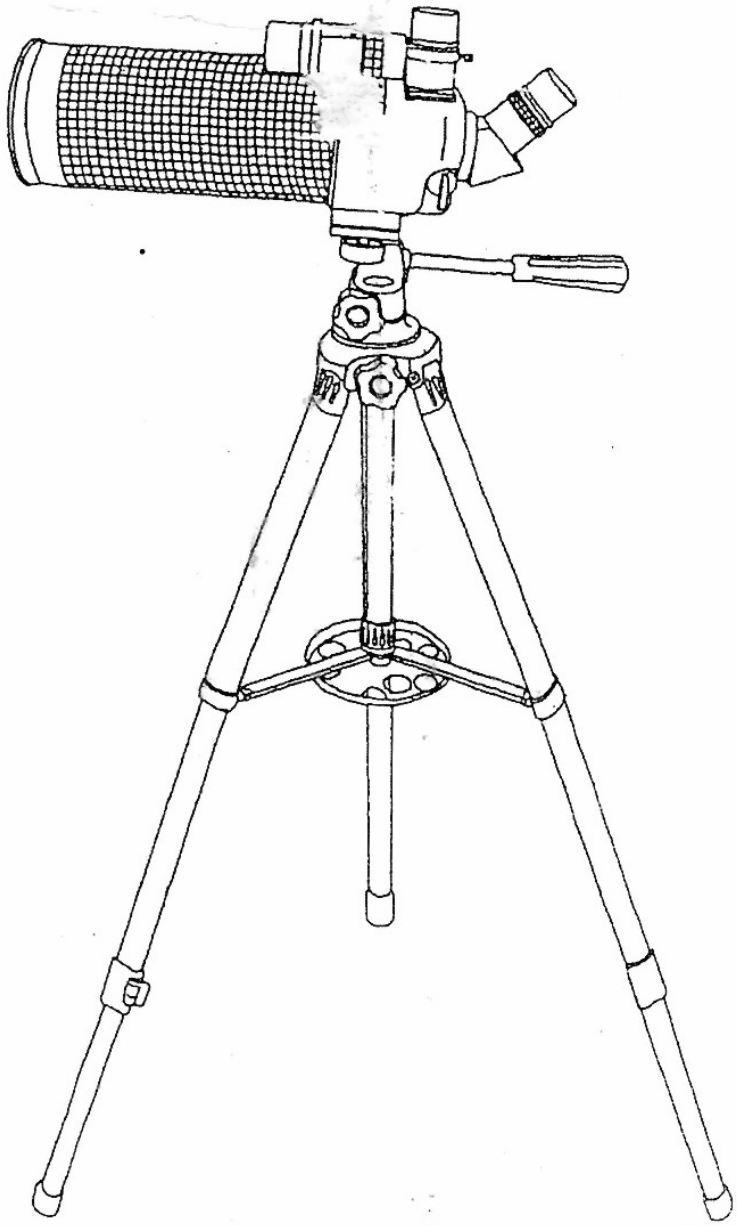
INSTRUCTION MANUAL
TELESCOPE F120090



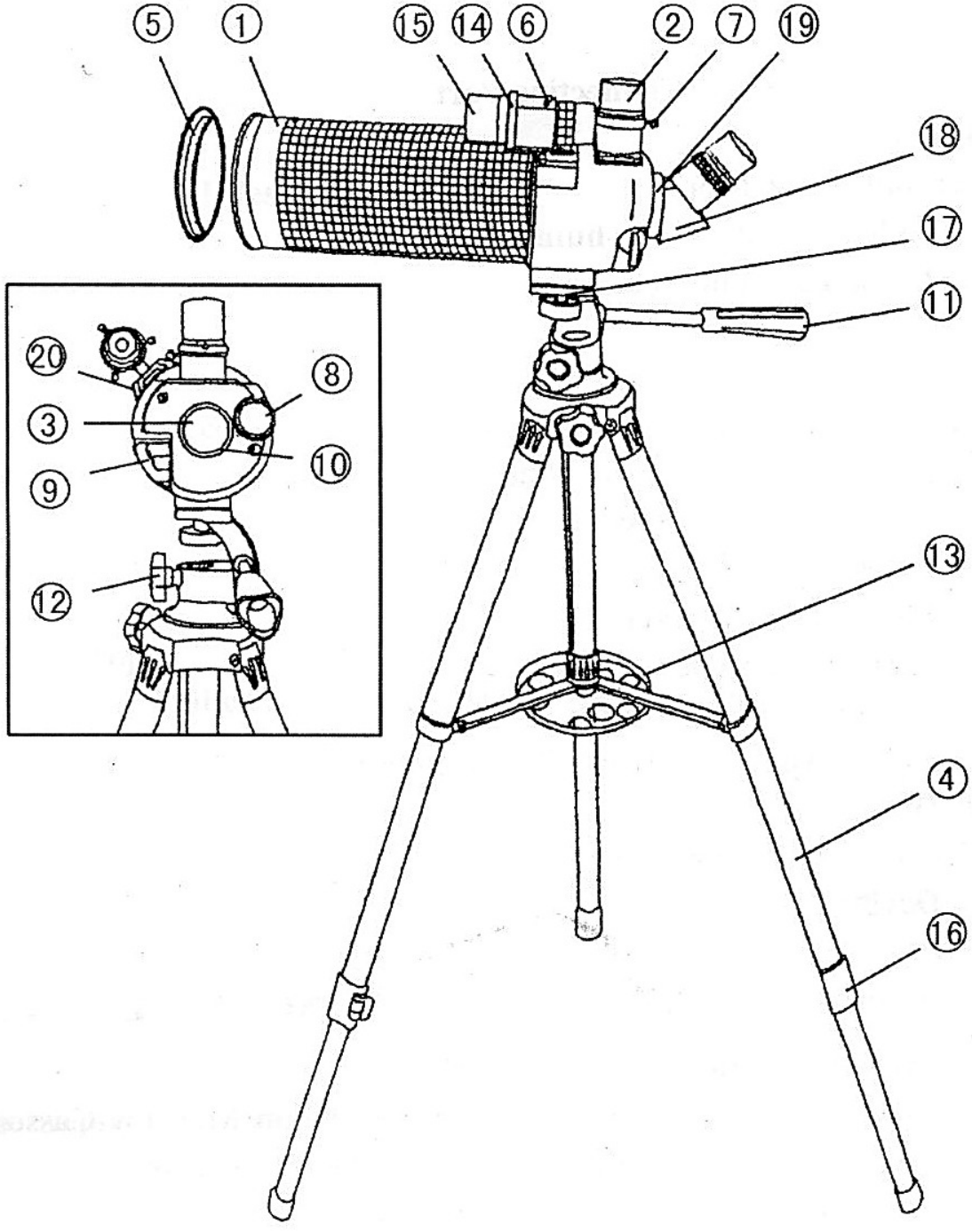
ASTRO TELESCOPE AND SPOTTING SCOPE 1200X90（III）

1. Main Optical Tube
2. Eyepiece
3. Camera Adapter Connecting Port
4. Tripod
5. Front Dust Cover
6. Finderscope Bracket Thumbscrews
7. Ocular Tube Thumbscrew
8. Focus Knob
9. Flip Knob
10. Rear Dust Cover
11. Latitude Adjustment Handle
12. Azimuth Lock Screw
13. Accessory Tray
14. Finderscope Bracket
15. 8x21 Finderscope
16. Tripod Leg Lock Screws
17. Optical Tube And Tripod Connecting Screw
18. Diagonal Prism
19. Connecting Ring of Diagonal
20. Dovetail Joint Base

ASTRO TELESCOPE AND SPOTTING SCOPE 1200X90

A. Introducing the Model 1200x90

The model 1200x90 is high performance 90mm Makstov-Cassegrain optical type precision instrument, intended for astronomical and terrestrial observing. Equipped with a camera for this model, it can be used as a spotting scope for photography of far targets.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B. Standard Equipment

1. Main Optical Tube
2. Eyepiece: K9. K20
3. Finder Scope: 8x21
4. 45° Erecting Diagonal Prism
5. Aluminum Alloy Tripod

C. Assembling Your Telescope

Remove the telescope from the carton and identify all components. Read though assembly instruction before you assemble your telescope.

1. Install Tripod

For installing tripod, connect the support braces with each of legs, and spread the tripod legs to full extension so that the support braces of leg are taut. Draw out the each inner leg and tighten the tripod leg lock screw (16) to firm feel for the height of tripod you need.

2. Attach Telescope

Position the optical tube onto the top plate of tripod, and tighten the 1/4″ screw (17) for connecting the optical tube and tripod.

3. Using Flip Knob

The flip knob (9) can be turned to two positions. Turn it to up for terrestrial observation. Turn it down for photography or terrestrial observation (with 45° diagonal prism)

4. Attach Eyepiece

Insert an eyepiece (2) into eyepiece tube, and tighten the thumbscrew (7) to secure the eyepiece. (Now the image you see in telescope is reversed from right to left).

5. Attach 45° Erecting Diagonal Prism and Eyepiece

Attach the 45° erecting diagonal Prism (18) to camera adapter

connecting port (8) by rotate and tighten the connecting ring (19) of diagonal (see fig. 1). Insert an eyepiece (2) into the diagonal prism and tighten the thumbscrew of diagonal to secure the eyepiece. (And now the image you see through eyepiece and 45° erecting diagonal appears true – to side.)

Your telescope is fully assembled till now.

6. Aligning Finder Scope
Put the finder scope (15) and bracket (14) into dovetail joint base (20) (see fig 1) on real cell of main tube, tighten the thumbscrew.

Look the target through main tube. Loosen the latitude adjustment handle (11) by turned it counter clockwise, to center the target in the telescope field. Looking through the target in finder scope(3), alternate tighten and looser each finder scope adjustment screws (6) till the crosshairs of the finder scope are precisely centered on the same target already centered in the main telescope.

With this alignment performed, objects first located with the finder scope will also be centered in the view of telescope.

D. Focusing Telescope
After selecting the desired eyepiece, aim telescope tube at a land- based target, at least 200 yards. Slowly turn the focus knob (8) until the object comes into focus.

E. Specifications

Focal length of objective lens:	1200mm
Diameter of objective lens:	90mm
Focal ratio:	F/13

CAUTION: NEVER LOOK DIREECTILY AT THE SUN WITH YOUR TELESCOPE. PERMENENT DAMAGE TO YOUR EYE MAR RESULT.