EQ8-R PRO

Here you will find our illustrated manual for the setup and operation of the EQ8-R PRO from Sky-Watcher. The EQ-8 is a rugged computerized German equatorial mount. The big advantage is the internal cable routing with hub for USB and power supply.

Properties

Model	EQ8-R PRO
Manufacturer	Sky-Watcher
Туре	german-paralactic
Maximum payload	50 kg
Control speeds (- fold)	0.125; 0.25; 0.5; 0.75; 1
Tracking speeds	solar, lunar, sideral
Polar altitude adjustment	10° - 65°
Weight of the mount	25.8 kg
Type of motors	stepper motors
PEC correction	yes

Individual parts

The mount consists of the following parts:

- solid tripod
- the mount itself
- counterweight rod
- counterweights
- small transparent box containing parts such as
 - hexagonal wrench
 - cables
 - hand control
- transport case, which is normally used to store the mount (the lid cannot be closed when the pole height is set)

Structure

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Step	Description	Parts needed	Telescope after the corresponding step
1	First, the three feet for the tripod must be placed as shown in the picture to the right. The tip of the "foot triangle" must face north. The feet are used to dampen vibration and level the mount.	3 feet	

Step	Description	Parts needed	Telescope after the corresponding step
2	Next, the tripod is placed on the prepared feet.	Tripod	
3	The third step is to place the actual mount on the tripod.	mount	

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Step	Description	Parts needed	Telescope after the corresponding step
4	In this and the next two steps, the tripod and the mount are firmly connected to each other. To do this, first lightly screw in 2 hex screws on both sides of the mount and tripod.	2 hex screws	

Step	Description	Parts needed	Telescope after the corresponding step
5	The green wheel on the side of the tripod's center bolt must then be screwed into the base of the mount. If you look under the polar cradle of the mount, you can also see how the tripod bolt is screwed into the mount.		





Step Description	Parts needed	Telescope after the corresponding step
Now the cover can be removed from the telescope, in this case th APO.		

Step	Description	Parts needed	Telescope after the corresponding step
11	Now the instrument can be mounted. Here we use the Herschel wedge together with a 2" eyepiece	<image/> <image/> <image/> <image/> <image/>	



Step	Description	Parts needed	Telescope after the corresponding step
13	Now connect the handset and the	Handset and power cord	
	power cord.		



Operation

Start-up

The EQ8-R PRO can be easily turned on and off using the on/off switch. Unlike the OST, there is no need to wait for the mount to shut down. After switching on the mount, it is always necessary to perform an alignment first.

Alignment

The following options are available:

1-Star Align. 2-Star Align. Polar Align.

General procedure

Step	Description	Hand control display
0	After confirming the On/Off switch, the manual control unit is initialized.	Aitializing SynScan™ CSC MENU ENTER













Step	Description	Hand control display
11	In the last step of the preparations you have to choose whether you want to start the alignment or not.	rgin alignment? res 23ND SynScan MENU Esc MENU Enter

Solar observations

Step Description

Display of the hand control

Step Description



The first thing to do is to select the Object List from the menu. This can also be done by pressing **key 8**, which is a shortcut to this menu.

Step	Description	Display of the hand control
2	Use the arrow keys at the bottom left and right of the pad to select the sun.	Image: Substant Sub

Step	Description	Display of the hand control
3	You will be warned again not to look at the sun without a filter. Confirm this again by pressing Enter .	Internet in internet





Step	Description	Display of the hand control
6	The mount then positions the telescope toward the sun.	

Step	Description	Display of the hand control
7	If the mount is well aligned, you will see an image of the Sun on the heat shield of the Herschel wedge.	



Two Star Alignment

Still to come...

Polar Alignment

Still to come...

Hibernation

Still to come if there is one...



Troubleshooting

Known error sources and their solutions can be found here.

Further documentation

More details about the mount and the telescope itself can be found in the corresponding manual in the practical room.

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