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C8 (Under construction)





The Celestron 8 (C8) is our smallest telescope not accounting for binoculars or finderscopes. Because of its compact construction it can be set up by a single person.

Setup

In the following the setup of this telescope will be explained step by step.

	Description	Used parts	Telescope after the corresponding step
1	One needs carefully choose the place where the telescope should be placed. For example, the relevant part of the sky needs to be visible (the dome covers part of the sky when the telescope is setup on the roof) and the cable connections for the power supply or the cameras should not become tripping hazards. The example setup was performed in the laboratory-course room directly after the door → directly in the way, hidden, and no sky → bad choice		

<p>2</p>	<p>The tripod is the backbone of the telescope.</p>		
<p>3</p>	<p>This disk is used to stabilize the legs of the tripod from the inside. The rod that punctures this disk will be screwed (with the side showing the thread) from below into the basis of the tripod. This needs to be done until the thread is completely visible on the other side. The rod should now be vertically slidable.</p>		

<p>4</p> <p>Now the mount can be put on the tripod basis. One has to take care that little chromed pin from the basis of the tripod needs to be placed in the corresponding bracket of the mount.</p>		
<p>5</p> <p>In the next step the counterweight bar and the counterweights needs to be attached to the back-end of the mount. First the counterweight bar needs to be screwed into the back-end of the declination axis. Afterwards the screw at the end of the counterweight bar can be removed and the counterweight can be placed and fixed on the counterweight bar. Subsequently, the screw can be reattached to the end of the counterweight bar.</p>		

6

In the next step the tube needs to be attached to the mount. The tube is equipped with a so-called dove tail (the orange thing) that allows a quick and easy attachment of the tube to the mount. Simply, insert the dovetail into the clamp of the mount and tighten the screw of the clamp.

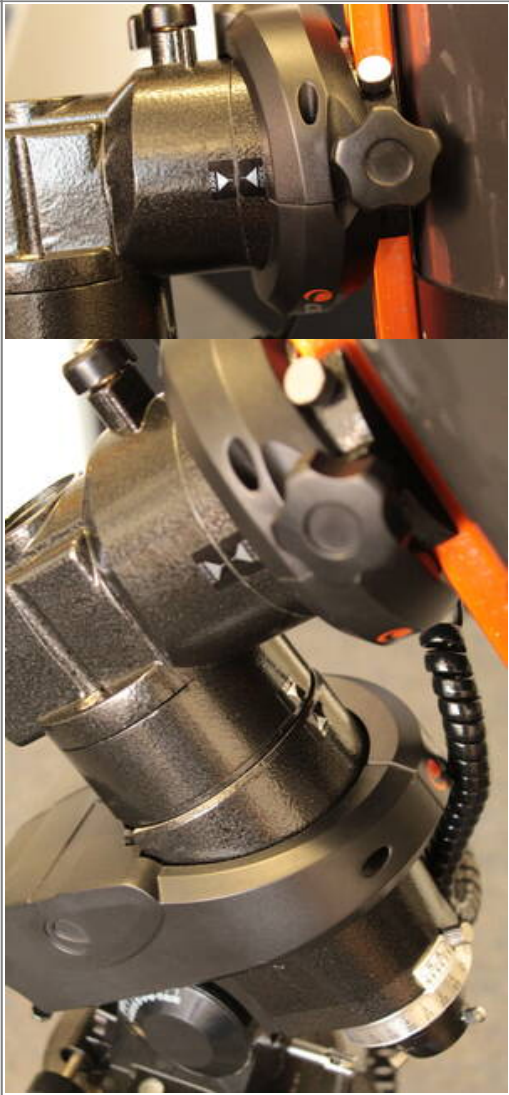






6.5 Before using the telescope you have to tare the rotation axes. First lose the clip fixing the right-ascension axis, until you can freely move the telescope around this axis. Now adjust the position of the counterweight such that there is no movement along this axis anymore. Tighten the clip again and repeat this procedure for the declination axis. As there are no counterweights for this axis, one has to shift the tube along the clamp to tare the declination axis.




7 Teleskopsteuerung anschliessen, Stromversorgung herstellen



<p>9 Achsen ausrichten</p>	 Two close-up photographs of the telescope's mount. The top image shows a hand adjusting a silver-colored knob on the side of the mount. The bottom image shows a similar knob being adjusted, with a red laser pointer beam visible in the background.	 A photograph of the telescope mounted on a silver tripod. The telescope is tilted upwards and to the left. The background shows a room with a doorway and a poster on the wall.
<p>10 Abdeckung entfernen</p>		 A photograph of the telescope mounted on a silver tripod, identical to the one in the previous row. The telescope is tilted upwards and to the left. The background shows a room with a doorway and a poster on the wall.

11	Gegebenfalls Sonnefilter anbringen		
12	Alignment ausfuehren, Genau wie am C11, hier beschrieben		

11	Fertig		
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Last update: **2018/01/25 23:26**

