The *Omegon® Red-dot finderscope*

Congratulations on the purchase of the new Omegon® Red-Dot Finderscope. This finderscope will give you hours of fun; it provides an effective, yet simple way to find deep sky objects. With this finderscope you will be able to point at an object and easily find it, when looking through the telescope's eyepiece.

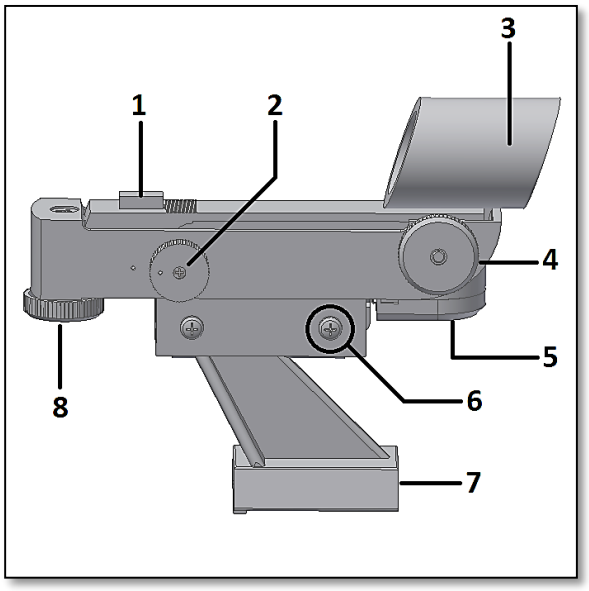

Figure 1. Parts description.

1. Knowing your finderscope.

1- Red-dot case;
2- Potentiometer ON/OFF switch;
3- Optical window;
4- Azimuth adjustment knob;
5- Battery compartment (1x battery CR2032);
6- Base fixing screws;
7- Finderscope bracket;
8- Altitude adjustment knob.

2. Getting Started.

The finderscope is powered by a coin shaped battery CR2032 (supplied). For battery protection a plastic protection is placed between the battery and the battery contact. Remove the plastic protection by securing the finderscope with one hand and then pulling firmly on the outstanding plastic tip (figure 2). The plastic protection should be completely removed and discarded. Turn power on by rotating the potentiometer to its ON position as shown in figure 3 (you will hear a click when ON), rotate all the way to get maximum power. When powered, the red-dot point on the red-dot case (#1 – figure1) lights up (figure 4 and figure 5). A small red point is projected to the optical window (#3 – figure 1). This red point, when aligned with the telescope, allows precise pointing to objects. To precisely align the finderscope with the telescope both the altitude and azimuth (#8 and #4 figure 1) adjustment knobs need to be adjusted (figure 6 and figure 7) – please see detailed instructions on how to align in page 3. To power off the finderscope just turn the potentiometer counter-clockwise until you hear a click – red-dot dims until off (figure 8). Place the finderscope's bracket in the telescope's finderbase. Use a low power eyepiece to align the finderscope.

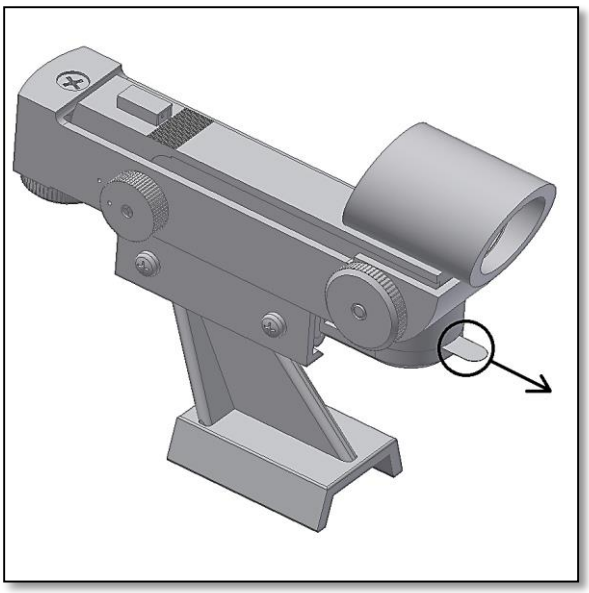

Figure 2. Remove plastic protection.

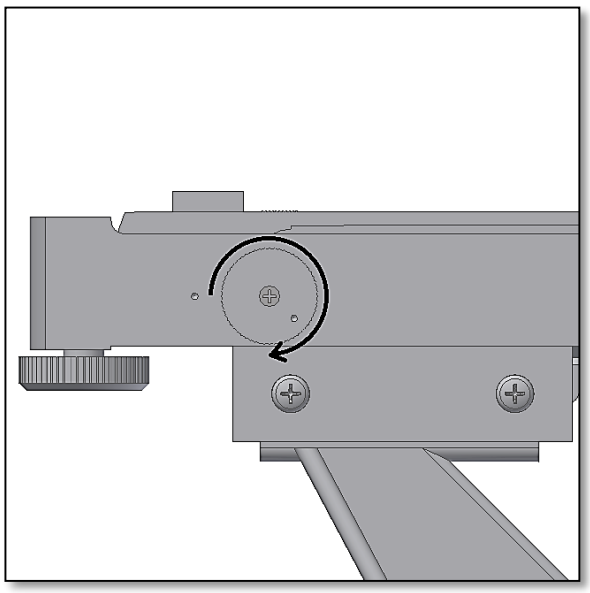

Figure 3. Turn power ON by rotating potentiometer.

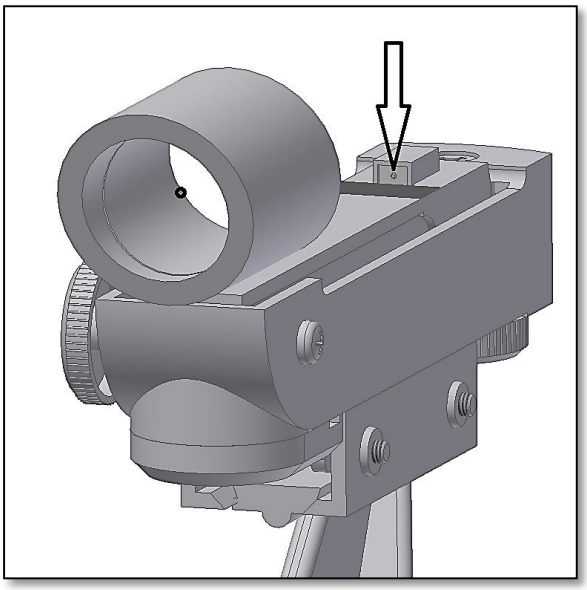

Figure 4. Red-dot lights up when ON.

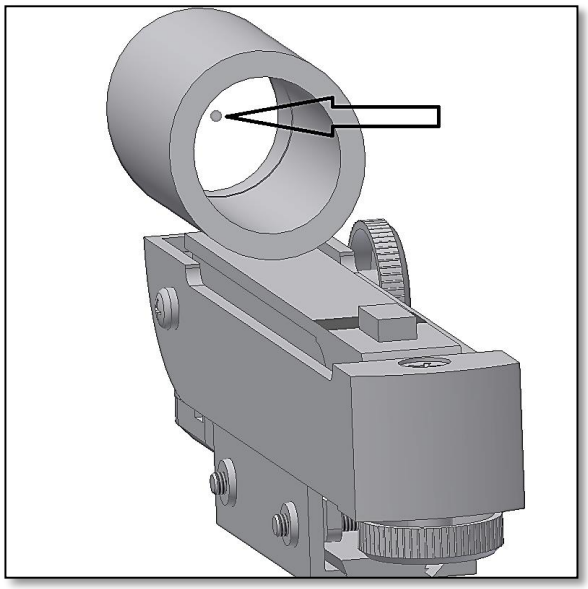

Figure 5. A red-dot is projected to the optical window.

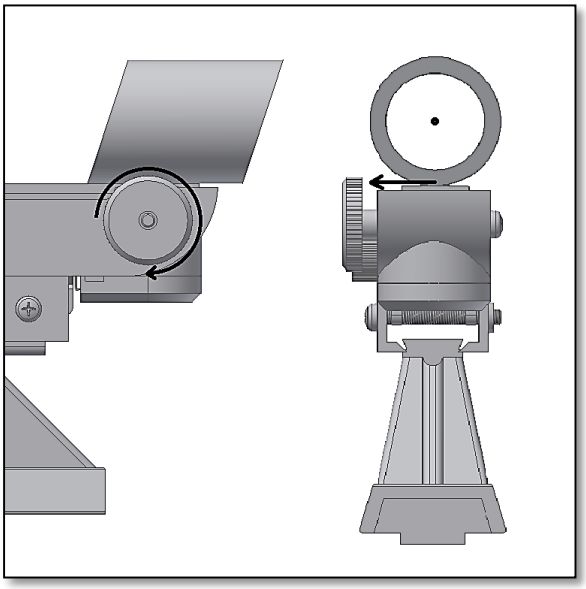

Figure 6. Turn azimuth adjustment knob to align finder.

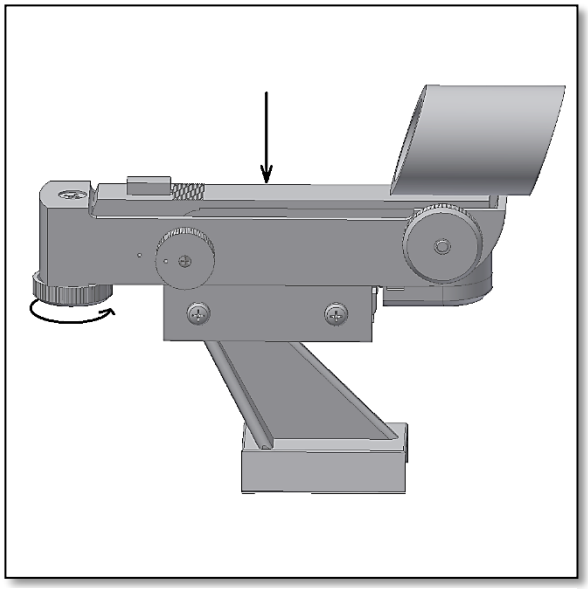

Figure 7. Turn altitude adjustment knob to align finder.

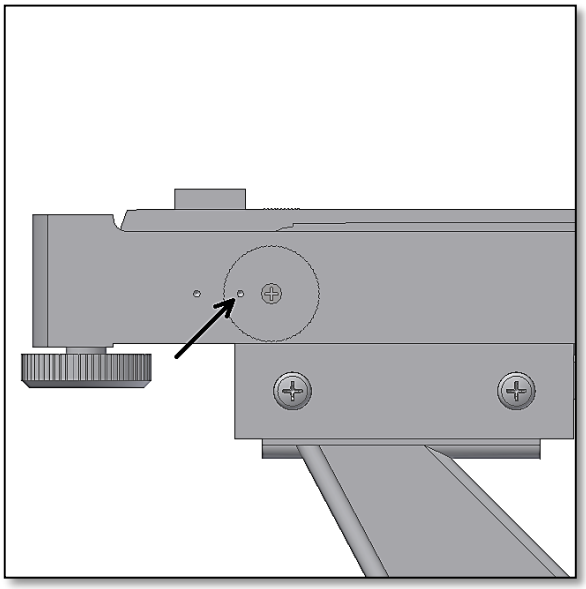

Figure 8. Turn potentiometer OFF.

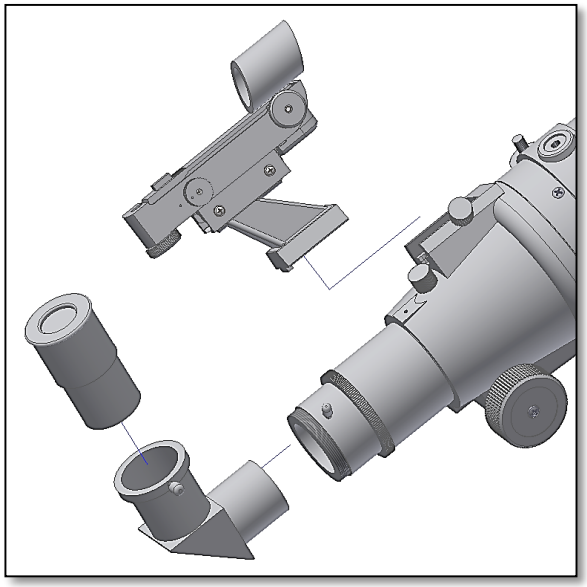

Figure 9. Place finderscope and eyepiece at the telescope.

3. Aligning the finderscope

3.1. A distant object is centered at the telescope's field of view. In this example we have a house with a chimney. The chimney is the reference point to place at the center of the field of view. We first look through the telescope with the lowest magnification possible, so we have the widest field of view.

3.2. Looking through the finderscope (it should be powered ON) we see the same building, but in this case the red dot and chimney are not centered. We adjust the finderscope using the two altitude and azimuth knobs so that the finderscope red point moves slightly until it matches the chimney. This is enough to correct the objects position in the finderscope. Trial and error is required to get a satisfactory result.

3.3. After playing with the two findercope thumbscrews and some trial and error, we get the finderscope red dot close to the center (in this case the chimney). The finderscope is now ready to use!

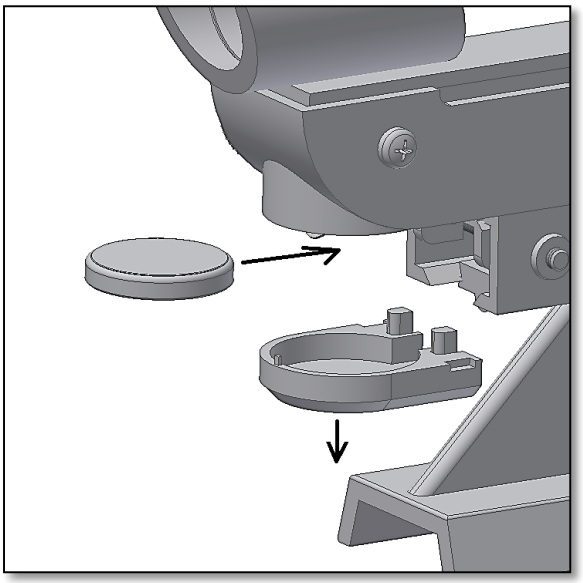

Figure 9. Remove battery.

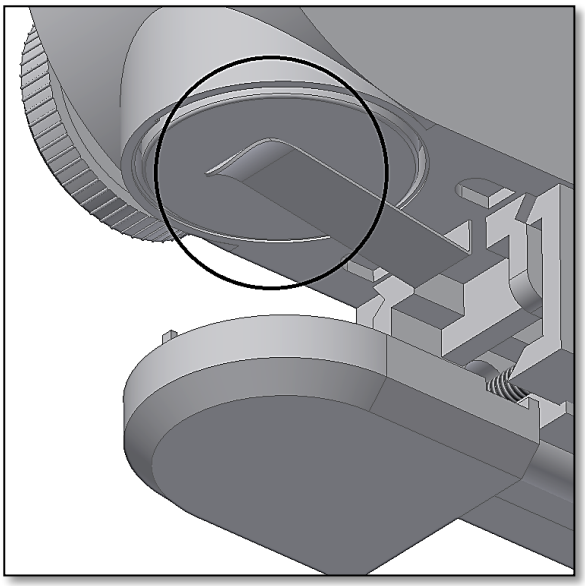

Figure 10. Place battery.

4. Replacing the battery. The red-dot needs to be bright enough to be seen during the observation. After some hours of use the brightness may dim until it no longer can be seen. The battery needs to be replaced. Turn the potentiometer OFF. Now remove the battery cap and the battery from the battery compartment and replace with a new battery (figure 9 and 10). Make sure the battery clip has solid contact with the battery base. Place the plastic battery cap back to protect the battery. Turn the potentiometer ON and check if the red-dot is brighter now. When not in use the finderscope should always be powered OFF to prolong the battery's life.