

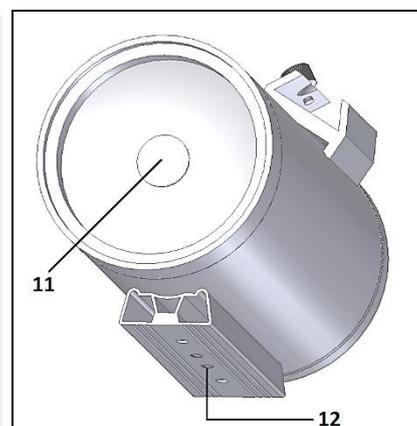
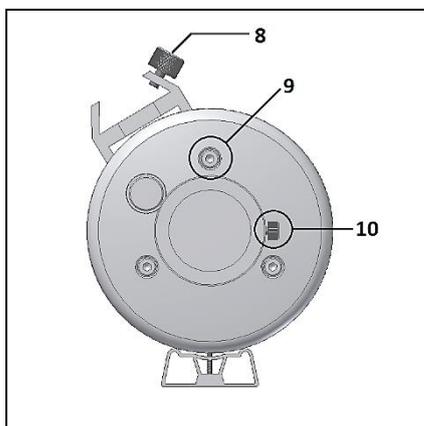
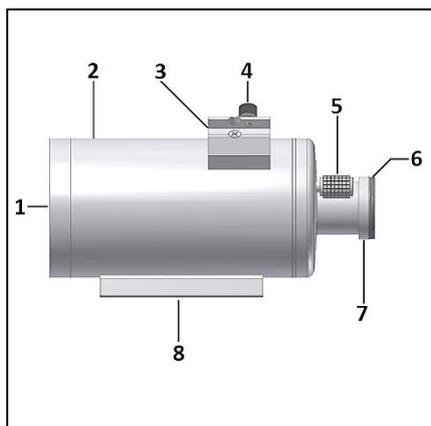
**omegon**



***MightyMak 60 & 80***

## The Omegon® MightyMak 60 & 80 OTA

*Congratulations on the purchase of the new Omegon® MightyMak OTA. This telescope will give you hours of fun, with its all optical glass Maksutov-Cassegrain system. It is the ideal companion to start in the world of amateur astronomy or birdwatching. With this telescope you will be able to see the craters on the Moon, star clusters, the Jupiter disc features and its Galilean moons and the rings of Saturn, but also the beauty of a wild bird's colourful feathers.*



### Optical tube parts description.

- |                              |                            |
|------------------------------|----------------------------|
| 1- Objective lens;           | 7- Focuser barrel;         |
| 2- Optical tube;             | 8- Dovetail;               |
| 3- Finderscope base;         | 9- Collimation screw;      |
| 4- Finderscope fixing screw; | 10- Eyepiece fixing screw; |
| 5- Focus knob;               | 11- Meniscus;              |
| 6- T thread;                 | 12- ¼"-20 thread;          |

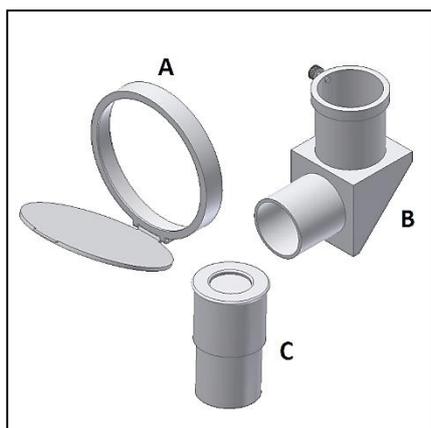


# SOLAR WARNING

Do not look at the Sun through the telescope!  
Concentrated Sun light may cause serious eye injury.  
Children should use only with adult supervision.

### 1. Included parts.

We have included several accessories that will make the use of the telescope easier and fun. Please take a look at the list of parts (below), so you can identify them in the future.



### Accessories

- |                                   |                               |
|-----------------------------------|-------------------------------|
| A. Flip-flop dust cap;            | B. Amici Prism 90 degrees;    |
| C. 25mm Eyepiece 1.25" (31.75mm); | D. Carrying case (not shown); |
| E. Mini-tripod (not shown)        |                               |

**2. Getting Started.** Start by unpacking the telescope from the shipping box and remove the protective foil and bubble wrap. Remove it from the supplied carrying case. Take a look at the tube and locate the main features. Flip open the plastic dust cap that protects the telescope's objective. When not in use, the telescope's dust cap should be used to protect the glass lens (#11 - meniscus) against dust and fingerprints. Insert the supplied diagonal (B) in the focuser barrel (#7) and the eyepiece (C) in the

diagonal as shown in figure 1 and 2. We recommend using a finderscope (not included) to help locating your targets. The recommended solution is a red-dot finder as it is very lightweight and simple to use. The telescope also needs to be placed on a suitable stable platform such as a photographic tripod or a telescope mount. Locate one of the two ¼"-20 threads (#12 from tube parts list). Use the one that allows to keep the telescope balanced on the tripod (complete telescope with accessories). Rotate the hand knob on the tripod to securely fix the telescope. The telescope is now ready to use.

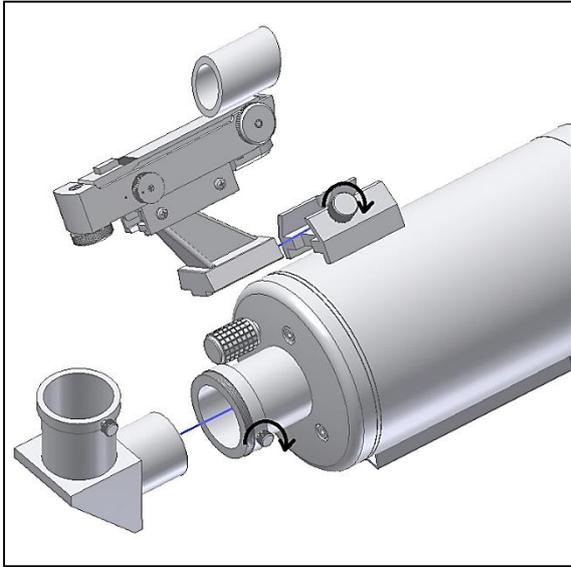


Figure 1. Insert diagonal.

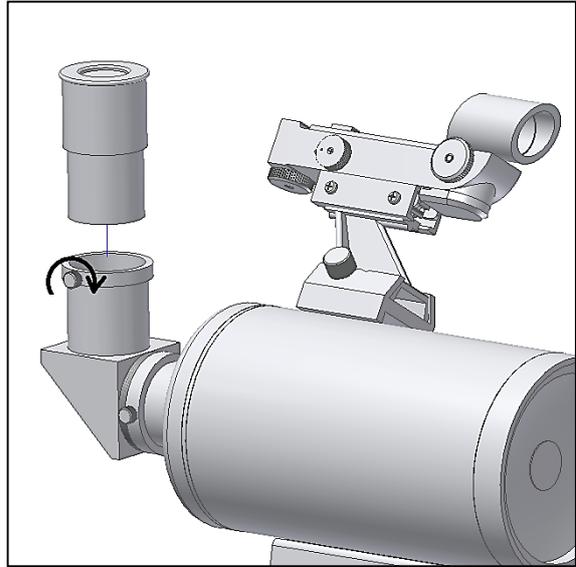


Figure 1. Insert eyepiece; make sure to securely fix it.

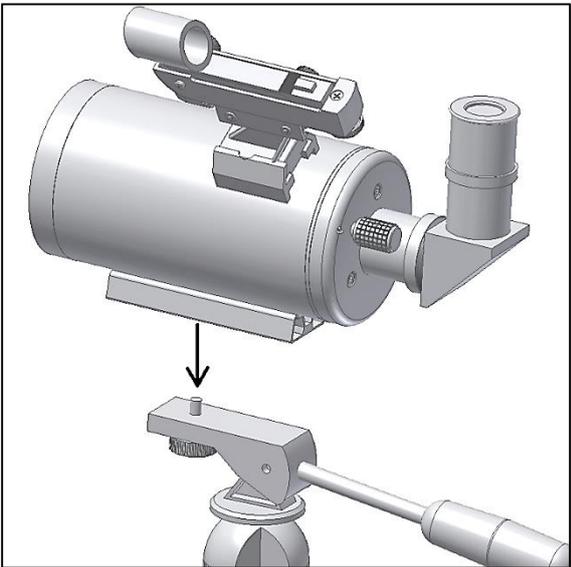


Figure 3. Place the tube on the tripod platform.



Figure 4. Use the hand knob to fix the tube.

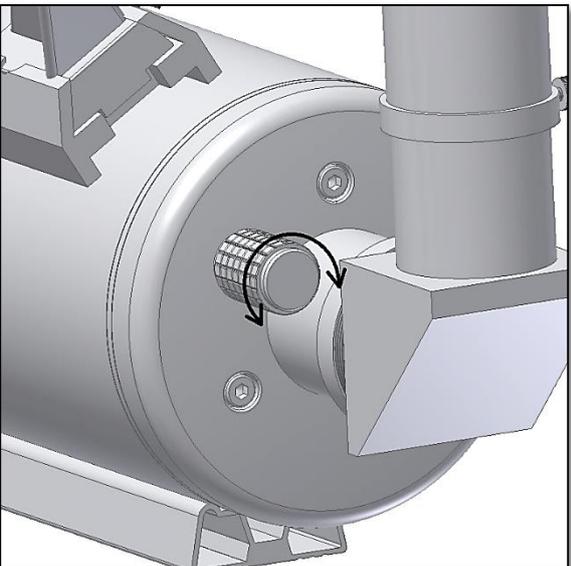
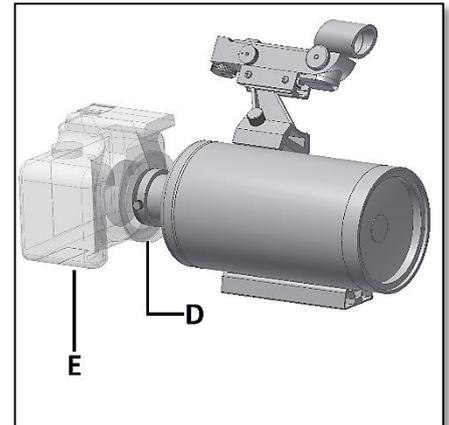


Figure 5. Use the focus knob to get a sharp image.

**2.1. Focusing.** Focusing is done by rotating the focus knob (#5 from part list). Targets at infinite (such as stars, planets or the Moon) require different focus position than terrestrial objects (which are closer). Choose one direction and rotate the focus knob to get a sharp image (focused image). When reaching the end of the focusing range, the focus knob will become hard to rotate. Do not force the focus knob as it might permanently damage the focusing mechanism! Rotate to the opposite direction, if you are unable to get focus.

**Do not force the rotation of the focus knob as it may cause permanent damage to the focusing mechanism!**

**3. Using the MightyMak for photography.** The MightyMak is compatible with T2 threaded camera rings. Each camera model/manufacturer (E) has a different connection ring (D). The tube can be used as a high power tele-objective. It can be used with or without a tripod, however, we recommend, when possible, to use a tripod. The long focal length of the telescope requires a steady platform to get sharp focused images. The camera's auto-focus settings will be disabled, manual focusing is required and is done with the focus knob. Afocal photography and other techniques such as projection photography are also possible. The smartphone photography technique is also easy to do with this telescope using a suitable smartphone adapter.



**4. What can I see with this telescope?**



The **Moon** is one of the most spectacular objects to be seen through a telescope. Even a small telescope will reveal high detail of the Moon's surface. You will be able to see the craters on the Moon's surface and other features like the Marea. The Moon is a very bright object. It is better to observe it when the Moon is not full. Try the crescent Moon and look for features along the terminator (between illuminated and dark surfaces). **Jupiter** is the biggest planet of our solar system. It is also one of the favorite targets for beginners. Galileo was able to discover that the four tiny dots that circle around the planet were in fact part of Jupiters system of moons. With this telescope you will not only be able to see Jupiter's planet disc with its two major discernible bands, but also its biggest moons, Io, Europa, Ganymedes and Callisto. The "lord of the rings" of the night skies, **Saturn** is by far the

most popular target for small telescopes. Saturn's rings are discernible even at 60x magnification. In a very good night you will be able to see the Cassini's division (the darker band on the Saturn's rings).

Features	MightyMak 60	MightyMak 80
Aperture	60mm	80mm
Focal Length	700mm	900mm
Focal ratio	f/8	f/9
Weight	650g	1150g
Tube Dimensions	Ø75mm x 200mm	Ø96mm x 235mm
Finderscope (not included)	Vixen Compatible	Vixen Compatible
Eyepiece	1.25" Kellner 25mm	1.25" Kellner 25mm
Diagonal	1.25" Mirror 90 degrees	1.25" Mirror 90 degrees
Tube Dovetail	Vixen Compatible	Vixen Compatible