

# Orion® T-Adapter

## #5116

The Orion T-Adapter will allow you to attach your 35mm camera body to your Meade or Celestron Schmidt-Cassegrain telescope for prime-focus photography. Using the telescope's prime focus effectively turns your telescope into a giant telephoto lens. The Orion T-Adapter will fit Celestron C-5, C-8, C-11, C-14 and Meade 4", 8" & 10" Schmidt-Cassegrain telescopes.

The T-Adapter gives you magnification equal to a telephoto lens of the same focal length as the telescope. For Meade and Celestron 8" Schmidt-Cassegrains, prime-focus magnification is about 40x (focal length of the scope in millimeters, divided by 50). The T-Adapter is only capable of giving you whatever magnification the scope will deliver. To get increased magnification, you need to use a tele-extender and a visual back.

### Mounting the T-Adapter

You will need a T-ring for your particular camera. Different camera brands use different lens mounts, so it is necessary to use a T-ring to provide your camera with a common mount that fits the standard T-threads on the T-Adapter. If you don't already have one, you can order one from Orion or get one at your local camera store. Sometimes camera stores call the T-rings "T-adapters" or "T-mounts." You should take your camera and your Orion T-Adapter with you if you visit your local camera store.

Remove all accessories from the rear cell of your telescope. Thread the T-Adapter's slip ring onto the rear cell threaded ring and hand tighten. Thread your T-ring onto the T-Adapter and attach your camera to the T-ring. If your camera is tilted, simply loosen the T-Adapter's slip ring and rotate the camera until it is oriented the way you want it. Tighten the slip ring and you're all set! Some accessories can be used in conjunction with the T-Adapter if they have threads that match the threads on the rear cell of the telescope.

### Try It Out!

Aim your telescope at a daytime object like a distant telephone pole, focus the telescope with a low-powered eyepiece and lock the telescope in position. Remove the eyepiece and star diagonal, unthread the visual back and install the T-Adapter. Re-focus with the T-Adapter and camera in place, being careful not to move the telescope. Be patient when you re-focus your telescope. With the T-Adapter, the point of focus moves back quite a distance.

### Daytime Photography

Most modern 35mm cameras with built-in meters automatically adjust for "stopped down" metering when the T-Adapter is attached, so the meter should work fine through the telescope. An alternate method is to meter with your standard



lens set at f/11. There are many astrophotography and film exposure guide publications and literature available; ask us if you need assistance.

### Astrophotography with Your T-Adapter

The T-Adapter works very well for terrestrial telephotography and short-exposure lunar photography where critical tracking is less important. To take good astrophotos of more distant and fainter objects, your telescope should be guided at a much higher power than the telescope's prime-focus magnification. This can be achieved through the use of an Orion off-axis guider.

### Taking Care of Your T-Adapter

When not using your T-Adapter, keep it in a clean environment. Very little physical damage can be done to a T-Adapter, short of dropping it and damaging the threaded parts, or bending the slip ring so that it no longer spins freely. Be careful not to cross-thread the T-Adapter to the T-ring.

## One-Year Limited Warranty

The Orion T-Adapter is warranted against defects in materials or workmanship for a period of one year from the date of purchase. This warranty is for the benefit of the original retail purchaser only. During this warranty period Orion Telescopes & Binoculars will repair or replace, at Orion's option, any warranted instrument that proves to be defective, provided it is returned postage paid to: Orion Warranty Repair, 89 Hangar Way, Watsonville, CA 95076. If the product is not registered, proof of purchase (such as a copy of the original invoice) is required.

This warranty does not apply if, in Orion's judgment, the instrument has been abused, mishandled, or modified, nor does it apply to normal wear and tear. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. For further warranty service information, contact: Customer Service Department, Orion Telescopes & Binoculars, 89 Hangar Way, Watsonville, CA 95076; (800) 676-1343.

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