



## Xtend-a-Scope™ 49T

### User's Guide

## Xtend-a-Scope™

### T-mount to 49mm adapter

Made in U.S.A.

by

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Congratulations on your purchase of the Xtend-a-Scope 49T. It will allow you to easily connect your camera to a telescope.

#### Overview

Because you can't remove the lenses on most digital cameras, it's necessary to use a connection to a telescope called "afocal" photography. This simply means that the lens of the camera is used **WITH** the viewing lens of the telescope. This configuration is not special having been used for years, however, most users have been forced to use a tripod and manually adjust the viewing angle of the camera to point directly at the viewing lens. With the Xtend-a-Scope 49T adapter you can connect directly to a digital camera and no additional adjustments are necessary.

#### Description

The Xtend-a-Scope provides the ability to directly connect your camera to a telescope or other optical device using a T-mount connection. This T-mount to 49mm adapter provides a connection between a standard 49mm thread (as found on the Xtend-a-Lens™) and standard T-mount.

#### What's included and what's required..

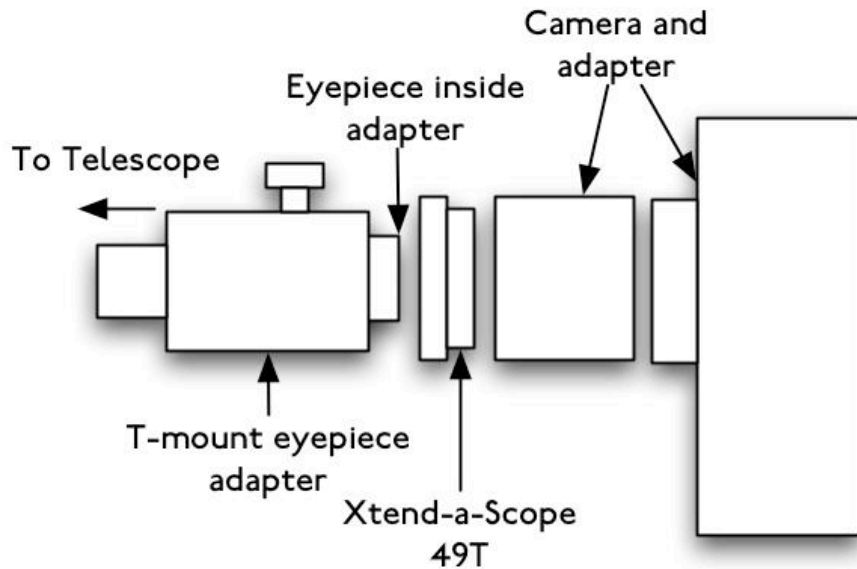
The contents of the T-mount to 49mm and Xtend-a-Scope kits consist of:

- User Guide
- Xtend-a-Scope 49T

These instructions are generally applicable to digital cameras in general.

The user will need to supply the appropriate camera lens adapter and/or stepping rings to connect to a specific camera. Additionally, the user will need to supply a combination T-mount adapter that is for their particular telescope. The combination T-mount adapter can accommodate eyepieces in the viewing size of the telescope, and may be adjustable, allowing the eyepiece to be

moved forward and backward, increasing or decreasing the magnification. It is recommended that for the 1.25 inch size viewing pieces, the FIXED Orion combination adapter be used, as the variable unit does not allow the camera lens to get close enough to the viewing lens.



### Installation...

Installation of the T-mount to 49mm adapter is quite simple. Refer to Figure 1 for item placement.

1. Insert your selected eyepiece inside the "T-mount adapter eyepiece adapter" (1) - user supplied
2. Attach the Xtend-a-Scope to the eyepiece T-mount adapter by screwing the T-mount side onto combination T-mount adapter finger tight.
3. Screw the threaded end of the camera adapter (3) onto the Xtend-a-Scope (2).
4. Attach the camera adapter to the camera.
5. Insert the telescope extension end of the T-mount eyepiece adapter (1) into the telescope, and tighten the fastening screws.

### Usage...

1. Use the finder on the scope to locate a fixed object on which you will test the focus of the system.
2. Connect the AC adapter to the camera or use a fresh set of NiMH batteries, as you will be using the LCD often.
3. Turn on the camera and set the focus to "Manual", and the distance to "infinity" (note: this may have to be adjusted, based on telescope) and the exposure to "Long Time Exposure". Set the length of the exposure to 1 second (this will be a starting value, which you will adjust based on object brightness). Set the Turn on the LCD display.
4. Rough adjust the telescope's focus until you see the object in the LCD, and adjust the fine focus until the object comes into focus on the LCD (let the scope settle between adjustments).
5. Turn on the self-timer, and press the shutter. If the exposure is not correct, change the exposure setting and repeat this step

Note: The above steps will change depending upon the type of camera you have.

### Warranty

Xtend-a-Scope is warranted for a period of 90 days. If during that time, the unit becomes defective, it should be returned to the place of purchase for replacement. The manufacturer reserves the right to repair or replace defective units. Units out of warranty will be repaired or replaced at a nominal fee by the manufacturer. Contact the manufacturer to arrange return and repair. Thank you for your purchase of Xtend-a-Scope. We hope that it will provide you years of satisfaction, and enjoyment. Capture the moment. Keep on taking pictures!