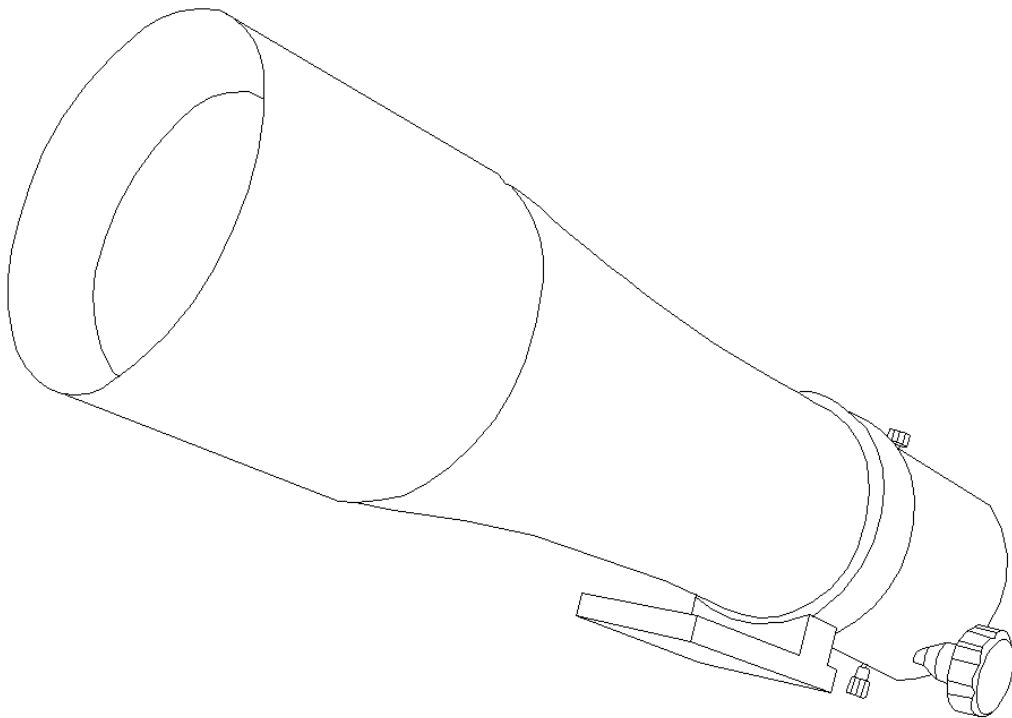


# PHOENIX 80

## INSTRUCTION MANUAL



Crafting the Earth's Finest Astronomical Instruments  
[www.william-optics.com](http://www.william-optics.com)



**Thank you again for purchasing the William Optics PHOENIX 80 high quality spotting scope.** This simple step by step instruction guide is designed to provide Phoenix owner with a better concept on how to operate the telescope with more precise updated information. This instruction will also guide you through on how to properly maintain your spotting scope and operate with utmost capabilities, please carefully familiarize your telescope parts and its function before operation.

### **WARNING!**

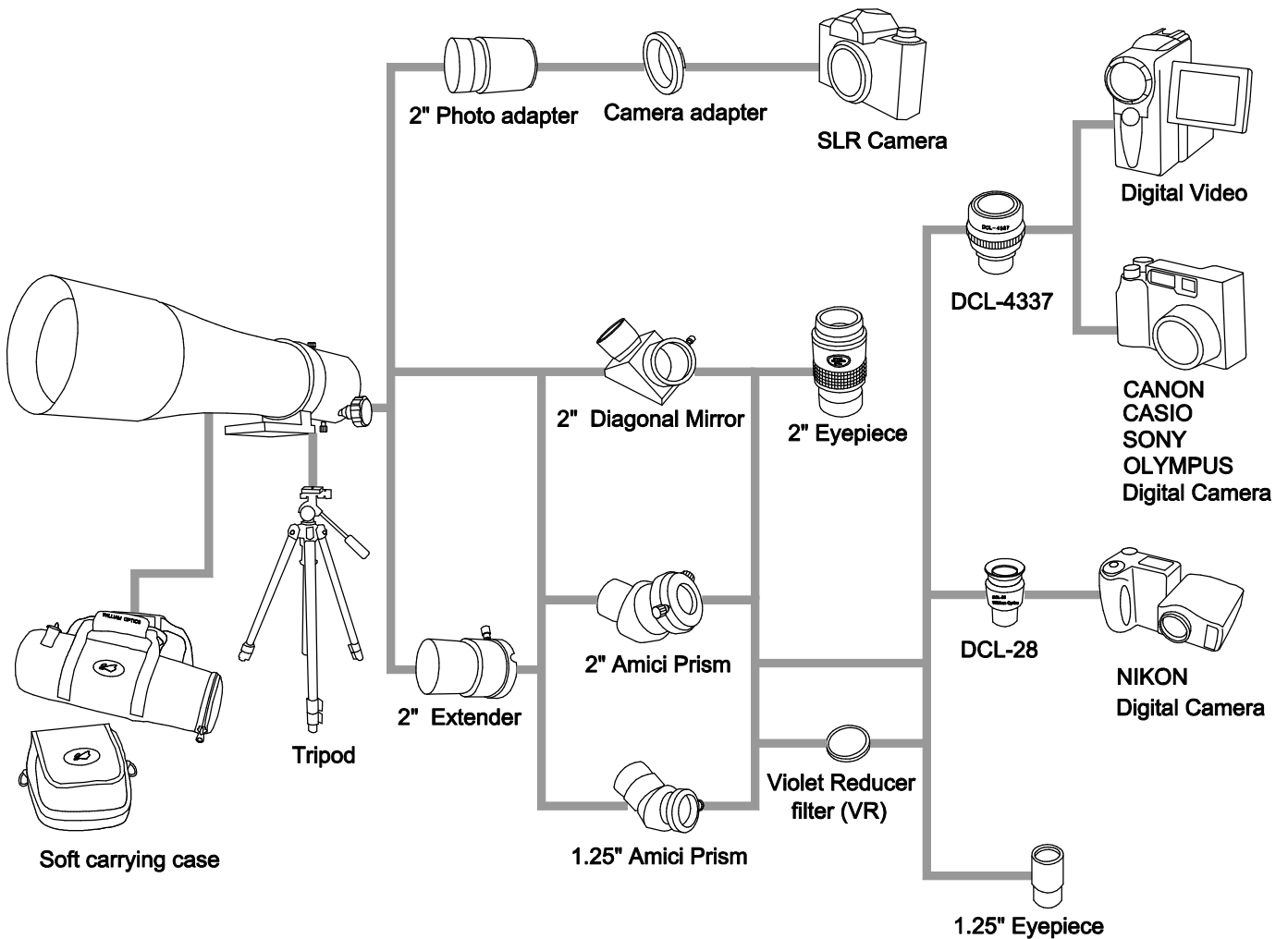
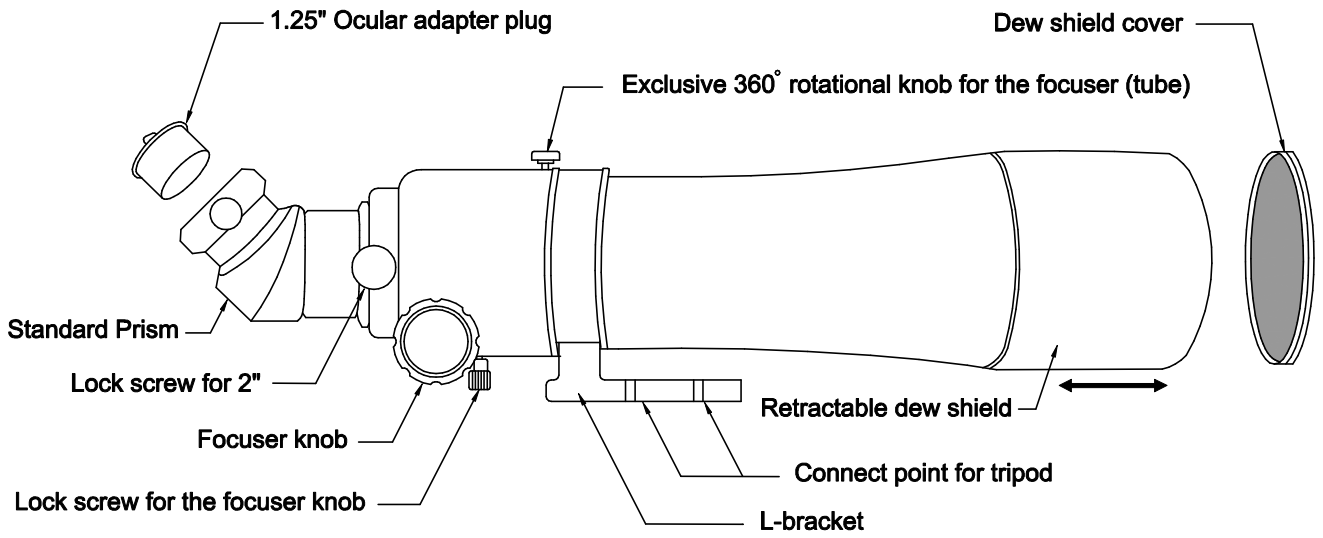


**Do not use this telescope under any circumstances directly view the SUN.** It could easily cause instant blindness or serious damage to your eye. Use only appropriate designed solar filter that will reject 99.96% of the sun light and heat before view the sun. Educate yourself and your family on how to use this telescope properly during day and nighttime usage. For further information please contact your local dealer.

### **PHOENIX Refractor Specification**

Configuration	Phoenix 80mm f/6
Aperture	80mm
Focal Ratio	F/6
Focal Length	480mm
Objective Type	Doublet Air Spaced
Resolving Power	1.45"
Limiting Magnitude	11.3
Lens Shade	Retractable
2" Focuser	360 Degree Rotating Camera Angle Adjuster
L-Type	L Bracket Based
1.25" Amici Prism	Included
Case	Elegant Spotting Carry Case and Handheld Bag
Tube Diameter	100mm (Dew Shield)
Tube Length	14.2" (360 mm) not includes Standard Prism
Tube Weight	4.00 lbs.

# Getting to know your telescope :

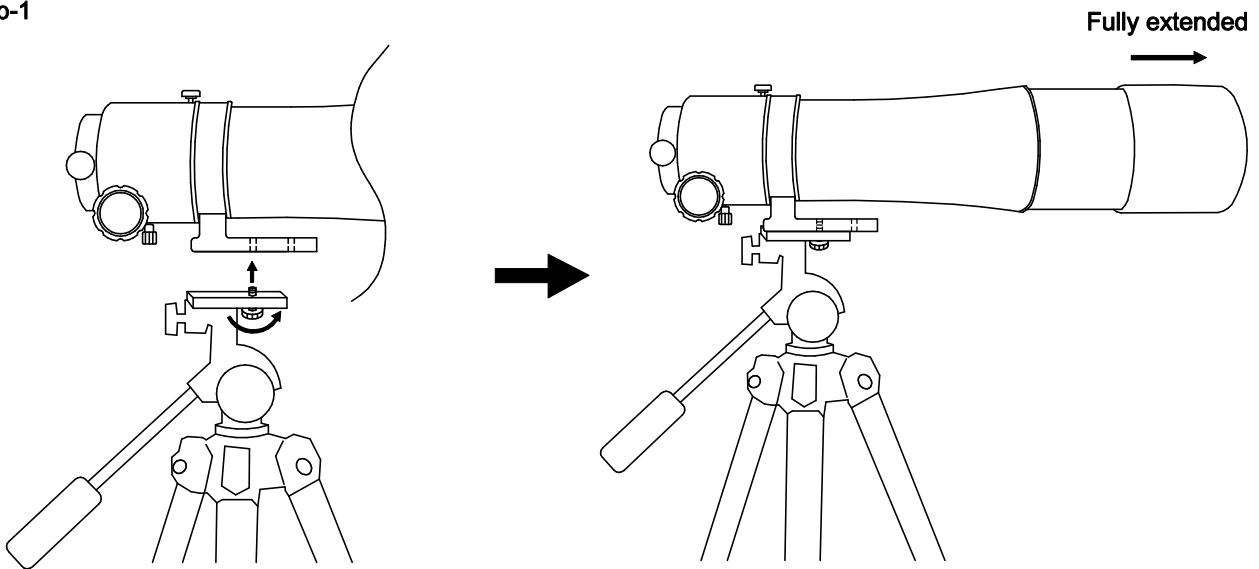


Above diagram is only for future connectivity reference. Please contact our authorizrdr dealer for accessories purchase.

# Operation and safety Manual:

## Connection Instruction ( 1.25" Amici Prism )

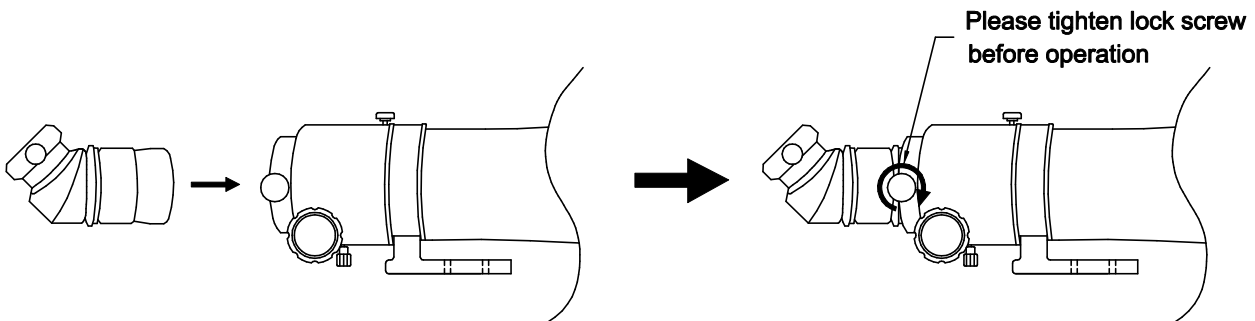
### Step-1



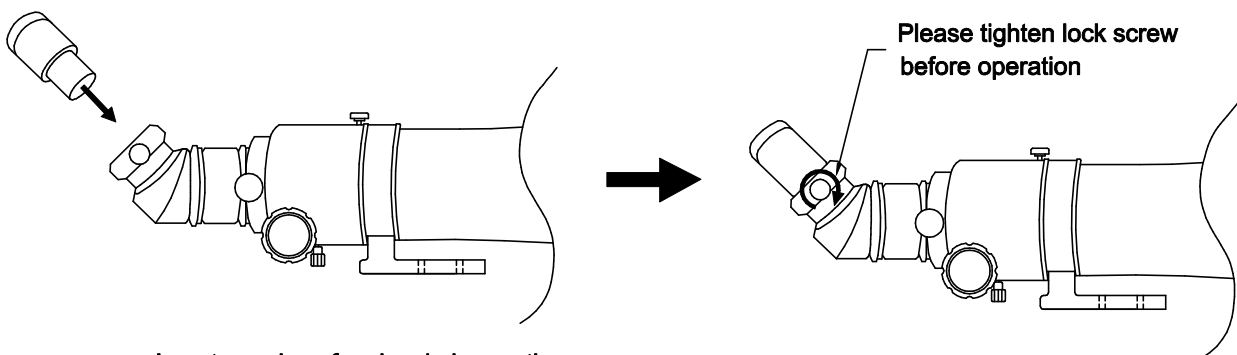
Connecting point between PHOENIX 80 and commercial tripod . Carefully lock down the knob beneath before operation.

Telescope and Tripod connection complete.

### Step-2



### Step-3

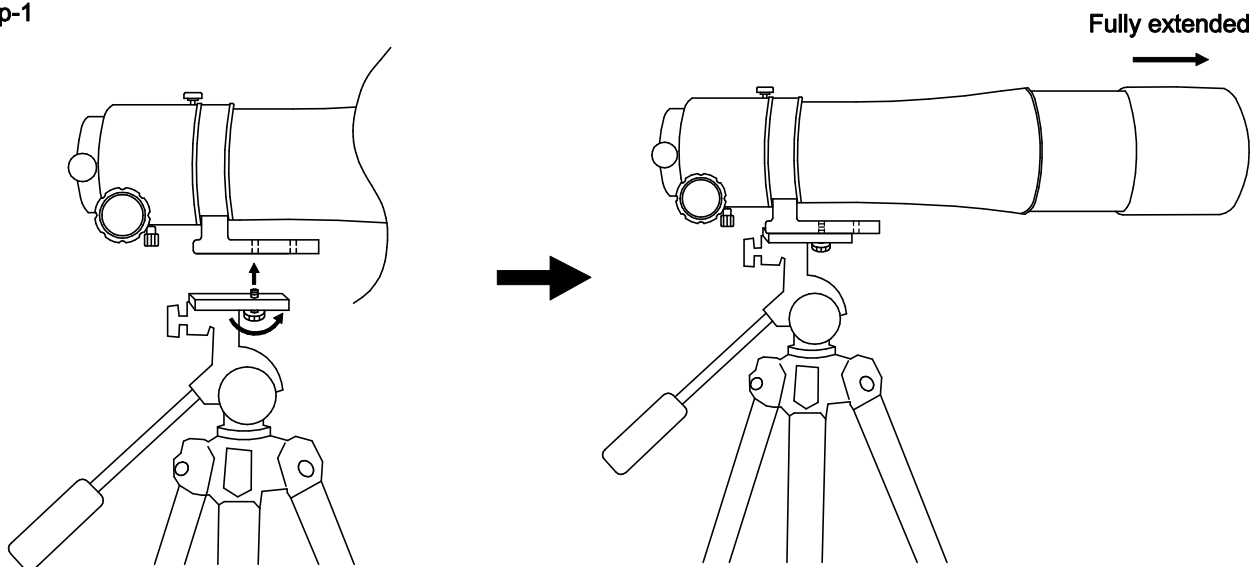


Insert eyepiece for visual observation

# Operation and safety Manual:

## Connection Instruction ( 2" Amici Prism )

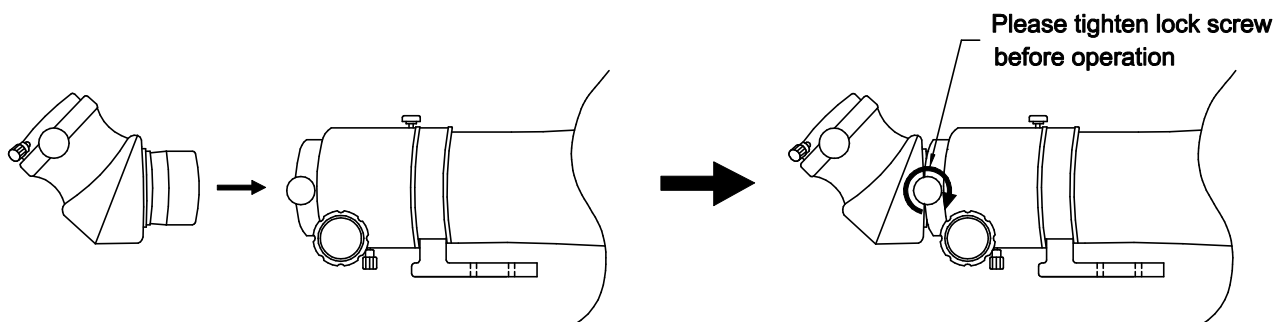
### Step-1



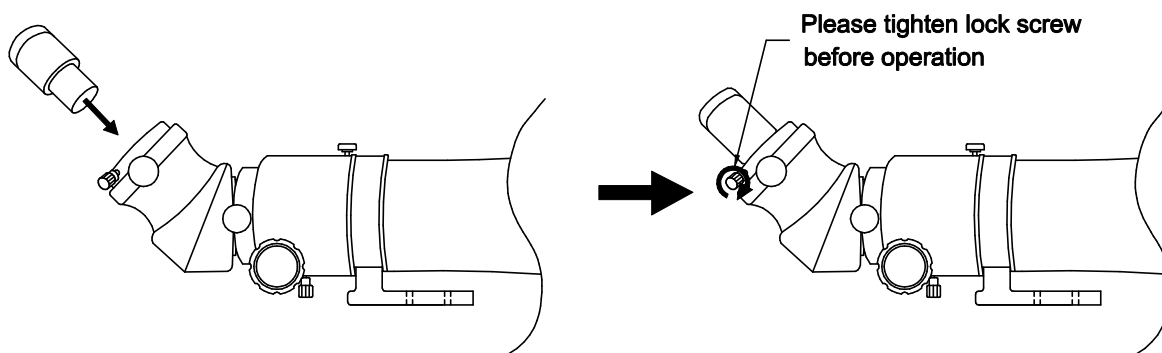
Connecting point between PHOENIX 80 and commercial tripod . Carefully lock down the knob beneath before operation.

Telescope and Tripod connection complete.

### Step-2



### Step-3



Insert eyepiece for visual observation

## **Standard Equipment:**

1. Water Resistant Carry Case with Handheld Bag.
2. L-bracket Based
3. Black twist-on dew cover.
4. 1.25" Amici Prism.

## **Observation Usage:**

During pleasure bird watching, depending on your range of applications, you have many choices you can choose from on precision eyepieces with different magnifications. The greatest flexibility range from 20x to 60x zoom eyepieces, it can easily locate an object in its surrounding with lower magnification, and then gradually zoom in with higher power ocular for maximum close-up and vivid details. The largest field of view is covered by 20x low power wide-angle ocular; ideally for brilliant and bright image that produces great magnification. Besides bird watching, Phoenix can easily capture any impressive vivid object to our eyes, especially when view the moon and planets up to 100X magnification. When searching for a rigid and stable tripod, be sure to look for brands that will create more stability, and be sure to ask for experienced or knowledgeable personnel in store to help you look around and compare quality and value before making that final decision. William Optics (WO) 2 inch amici prism and 2 inch star mirror diagonal is highly recommended for high quality digital photography as optional accessories. More array on WO accessories is available for broader connectivity, for instance, digital video (DV), digital camera (DC) photography and CCD imaging. For further detail information on how to connect please contact or email our authorized dealers and manufacture. For Sun observing, direct viewing the sun is prohibit, must use proper solar filter before operation, (e.g., H-alpha filter and other brands). For more information on proper solar filters and other major brands, please visit our authorized dealer for detail information.

## **Storage and Clean:**

- I Suggest placing all accessories inside airtight container with desiccative control. Second, remember to store the scope in non-humid environment, never leave your scope in hot heated environment. If telescope is not properly store it may create fungus growth and other unnecessary build up.
- I In case if lens surface become dusty, smear, or gets fingerprints and fungus build-up. Air blower is an excellent device to remove surface particle, second, carefully wipe the lens gently with proper soft cloth paring with lens liquid cleaner to get the best cleaning result. Indication mentioned above does not easily happen if you carefully protect your telescope with caution. ( Note: make sure to change new soft cloth momentarily for best cleaning result ) .
- I How to care for exterior tube surface: always wipe down with a soft clean cloth attach with some moist water, water would be enough to do the job. Please do not use any organic solvent to clean your telescope, example like alcohol, benzene and other hazardous chemical are all prohibit.

## Caution for safety:

- I **Caution!** Never directly view the sun light with your telescope. Loss of eyesight can occur when your telescope is not properly protected by solar viewing filter. (Solar filter can be easily purchase through local authorized dealer).
- I Always place the optical telescope assembly (OTA) on a completely flat surface, unstable placement of telescope may cause telescope to fall, and if treat your telescope without caution, it may easily injure yourself and others.
- I Never use your telescope under rainy condition, this telescope is not designed with water-proof. If your telescope accidental gets caught in the rain, please urgently wipe off the water with dry clean cloth, and in case if the lens is totally soak by water please contact your authorized dealer right away for detail service solution.
- I **Do not temper with your telescope lens or disassemble your telescope without authorization from the manufacture**, this will violate the warranty under the limited product warranty section. Always consult with your local retailer or manufacture for detail on how to care and service your scope.

## Optional accessories:

- I All standard type of ( 1.25" ) eyepiece, ( wide angel and super wide angel can also be another option ).
- I 2 inch star mirror diagonal ( High precision polish material )
- I 2 inch 45 degree amici prism.
- I 2 inch super wide angel eyepiece ( Need to operate with 2" star mirror diagonal or 2" amici prism ) .
- I DCL-Series ( Digital Camera adapter Lens for Digital Camera ) .
- I Filters : VR-1 filter ( Violet-Reducer ) , light pollution filter, Solar Max H-alpha filter, etc.
- I (T-mount ring) for most camera brand.
- I Commercial tripod for birding scope.
- I Extension tube.
- I 2 inch photo camera adapter.