

# Instruction Manual

## Meade Wilderness Spotting Scopes

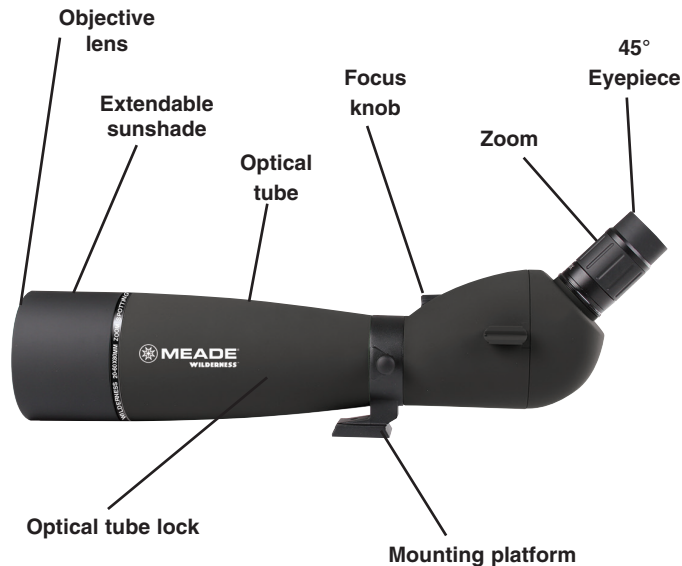
### Introduction

Meade Wilderness spotting scopes are ideal for high-magnification, high-resolution observation of terrestrial subjects. Explore the subtleties of a bird's feather structure from 50 yards, read license plates more than one mile in the distance, or use the spotting scope for casual astronomical observations.

**Note:** "Spotting Scope" is a term used to define a telescope that is primarily intended for terrestrial (land) viewing. Spotting Scopes can also be used for casual astronomical observing.



**Never use a Meade® Spotting Scope to look at the Sun!** Looking at or near the Sun will cause instant and irreversible damage to your eye. Eye damage is often painless, so there is no warning to the observer that damage has occurred until it is too late. Do not point the spotting scope or its viewfinder at or near the Sun. Do not look through the spotting scope as it is moving. Children should always have adult supervision while observing.



## Parts

The following parts are included with the spotting scope:

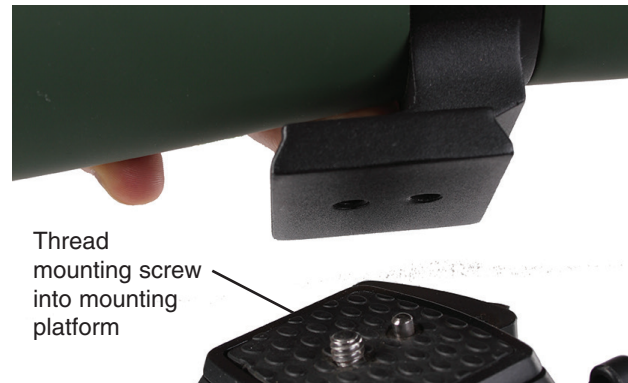
- The spotting scope optical tube, with lens covers.
- Soft carry case

## Assembly Instructions

1. To attach the Meade Wilderness spotting scope to a tripod first align the spotting scope mounting platform so that it is positioned over the mounting screw in the tripod pan head.
2. Attach the tube to the mounting platform by turning the mounting screw counterclockwise. Tighten to a firm feel.
3. Remove the dust cap from tube and remove the eyepiece cap from the eyepiece. Be sure to replace the dust caps after each session.

## Controls

- **Focus Knob:** Look into the eyepiece and rotate the focus knob in either direction to focus on an object.
- **Zoom:** Rotate the zoom control to zoom in or out on an object; then use the focus knob to refine the focus.



- **Indoor Viewing vs. Outdoor Viewing:** Although you may casually observe through an open or closed window, the best observing is always done outdoors. Temperature differences between inside and outside air, and the low quality of window glass can blur images through the spotting scope.



## Camera Adapter

Your Meade zoom spotting scope includes a convenient, easy to use camera adapter. The adapter is designed to be used with a T-Mount (not included) that is dedicated to work with your camera's interchangeable lens mount.

Screw the camera adapter over the zoom eyepiece as shown above.



Then thread on your camera's dedicated T-Mount on to the Meade camera adapter as shown above.

Attach your camera to the T-Mount. Note that depending on how your T-Mount threads onto the camera adapter, you may need to adjust the alignment of your camera. Consult your T-Mount instructions for details.

## Terrestrial Observing

When viewing land objects, you will be observing through heat waves on the earth surface. You may have noticed these heat waves while driving down a highway during the summer. Heat waves cause a loss of image quality.

If heat waves interfere with your viewing, try using low power to see a steadier, higher quality image. Observe in early morning hours, before the earth has built up too much internal heat.

## Cleaning and Maintenance

Your spotting scope is a precision optical instrument designed for a lifetime of rewarding viewing. It will rarely, if ever, require factory servicing or maintenance. Follow these guidelines to keep your spotting scope in the best condition:

- Avoid cleaning the spotting scope's lenses. A little dust on the front surface of the spotting scope's correcting lens will not cause loss of image quality.
- When absolutely necessary, dust on the front lens should be removed with very gentle strokes of a camel hair brush or blown off with an ear syringe (available at most pharmacies).
- Fingerprints and organic materials on the front lens may be removed with a solution of 3 parts distilled water to 1 part isopropyl alcohol. You may also add 1 drop of biodegradable dishwashing soap per pint of solution. Use soft, white facial tissues and make short, gentle strokes. Change tissues often.

**CAUTION: Do not use scented or lotioned tissues or damage could result to the optics. DO NOT use a commercial photographic lens cleaner.**

- **Your spotting scope is waterproof:** It is designed to be used by the sportsman, boater or casual user in an environment in which exposure to water, such as rain, mist, splashing and so forth, might be a possibility. It is intended to be resistant to accidental exposure to water, but it is not designed for intentional submersion or extended use in water. If your spotting scope is intentionally immersed in water for any significant length of time, you risk voiding the warranty.

Also note that although your spotting scope may be used near a water environment, water on the lens will cause images to be distorted. Wipe off water from the entire device with a soft cloth when you leave the water environment. Allow all lenses to dry fully before replacing the lens caps.

## Meade Customer Service

If you have a question concerning your spotting scope, call Meade Instruments Customer Service Department at (800) 626-3233. Customer Service hours are 7:00AM to 6:00PM, Pacific Time, Monday through Friday. **Write or call the Meade Customer Service Department first, before returning the spotting scope to the factory**, giving full particulars as to the nature of the problem, as well as your name, address, and daytime telephone number. The great majority of servicing issues can be resolved by telephone, avoiding return of the spotting scope to the factory.

## Specifications

### Meade Wilderness 20x - 60x 100mm Spotting Scope

|                                     |   |
|-------------------------------------|---|
| Finish                              | Black rubber armor                            |
| Lens coating                        | Fully multi-coated                            |
| Prism type                          | BAK4  |
| Prism system                        | Porro   |
| Waterproof/fogproof nitrogen purged | Yes*  |
| Objective diameter                  | 100mm   |
| 20x Field of View (at 1000 yds.)    | 40 ft.  |
| 60x Field of View (at 1000 yds.)    | 79 ft.  |
| 20x Short focus                     | 32ft.   |
| 60x Short focus                     | 33.5ft.                                       |
| 20x Eye relief                      | 21mm  |
| 60x Eye relief                      | 18mm  |
| 20x Exit pupil                      | 5mm   |
| 60x Exit pupil                      | 1.7mm   |
| Length                              | 21 in.  |
| Height                              | 6.8 in.                                       |
| Weight                              | 4.1 lbs                                       |
| Accessories                         | Carry case, cleaning cloth and camera adapter |

\* see "Cleaning and Maintenance" for details.

## Specifications

### Meade Wilderness 20x - 60x 80mm Spotting Scope

|                                     |   |
|-------------------------------------|---|
| Finish                              | Black rubber armor                            |
| Lens coating                        | Fully multi-coated                            |
| Prism type                          | BAK4  |
| Prism system                        | Porro   |
| Waterproof/fogproof nitrogen purged | Yes*  |
| Objective diameter                  | 80mm  |
| 20x Field of View (at 1000 yds.)    | 44 ft.  |
| 60x Field of View (at 1000 yds.)    | 87 ft.  |
| 20x Short focus                     | 26.3 ft.                                      |
| 60x Short focus                     | 27.9ft.                                       |
| 20x Eye relief                      | 21mm  |
| 60x Eye relief                      | 18mm  |
| 20x Exit pupil                      | 4mm   |
| 60x Exit pupil                      | 1.3mm   |
| Length                              | 18.25 in.                                     |
| Height                              | 6.9 in.                                       |
| Weight                              | 3.0 lbs                                       |
| Accessories                         | Carry case, cleaning cloth and camera adapter |

\* see "Cleaning and Maintenance" for details.

## Specifications

### Meade Wilderness 15x - 45x 65mm Spotting Scope

|                                     |   |
|-------------------------------------|---|
| Finish                              | Black rubber armor                            |
| Lens coating                        | Fully multi-coated                            |
| Prism type                          | BAK4  |
| Prism system                        | Porro   |
| Waterproof/fogproof nitrogen purged | Yes*  |
| Objective diameter                  | 65mm  |
| 15x Field of View (at 1000 yds.)    | 53 ft.  |
| 45x Field of View (at 1000 yds.)    | 105 ft.                                       |
| 15x Short focus                     | 24.6ft.                                       |
| 45x Short focus                     | 27.2 ft.                                      |
| 15x Eye relief                      | 21mm  |
| 45x Eye relief                      | 18mm  |
| 15x Exit pupil                      | 4.3mm   |
| 45x Exit pupil                      | 1.4mm   |
| Length                              | 14.5 in.                                      |
| Height                              | 6.875 in.                                     |
| Weight                              | 2.4 lbs                                       |
| Accessories                         | Carry case, cleaning cloth and camera adapter |

\* see "Cleaning and Maintenance" for details.

## MEADE LIMITED LIFETIME WARRANTY

Every Meade spotting scope is warranted by Meade Instruments Corp (MIC) to be free of defects in materials and workmanship for the lifetime of the original purchaser. MIC will repair or replace the product, or part thereof, found upon inspection by MIC to be defective, provided the defective part or product is returned to MIC, freight prepaid, with proof of purchase. This warranty applies to the original purchaser only and is non-transferable. MIC products purchased outside North America are not included in this warranty, but are covered under separate warranties issued by Meade International Distributors.

**RGA Number Required:** Prior to the return of any product or part, a Return Goods Authorization (RGA) number must be obtained from Meade by writing, calling 800-626-3233 (7:00am to 5:00pm, Pacific Time Zone) or by sending an email to [binocularsupport@meade.com](mailto:binocularsupport@meade.com). Each returned part or product must include a written statement detailing the nature of the claimed defect, as well as the owner's name, address, and phone number.

This warranty is not valid in cases where the product has been abused or mishandled, where unauthorized repairs have been attempted or performed, or where depreciation of the product is due to normal wear-and-tear. Meade specifically disclaims special, indirect, or consequential damages or lost profit, which may result from a breach of this warranty. Any implied warranties which cannot be disclaimed are hereby limited to a term of one year from the date of original retail purchase.

This warranty gives you specific rights. You may have other rights which vary from state to state. Meade reserves the right to change product specifications or to discontinue productions without prior notice. This warranty supersedes all previous Meade spotting scope warranties.



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27 Hubble • Irvine, California 92618 USA  
(800) 626-3233 • [www.meade.com](http://www.meade.com)

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