

opticon

MM4 Travelscopes

User Instructions and Warranty

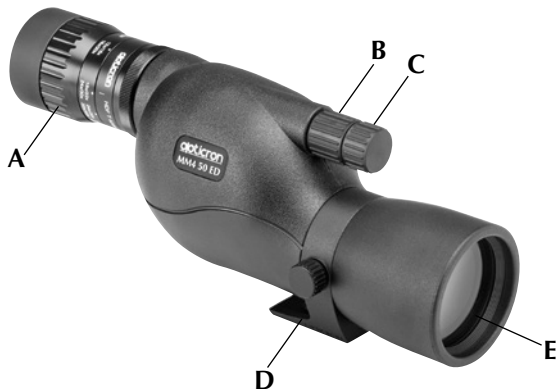
North America



MM4USA0217

Models
50 GA ED
50 GA ED/45
60 GA ED
60 GA ED/45

Main Features & Specifications



- A Interchangeable eyepiece (not included).
- B Main focus wheel.
- C 8:1 fine focus wheel.
- D Tripod sleeve with +/- 90° rotation and large footprint tripod adapter socket with two 1/4" threads.
- E Objective lens.



Integrated rubber objective lens cover.

Specifications	50 ED	50 ED/45	60 ED	60 ED/45
Product Code	41225	41226	41227	41228
Objective (mm)	50	50	60	60
Close Focus (ft/m)	8.2/2.5	8.2/2.5	11.5/3.5	11.5/3.5
Length (in/mm)	8.1/205	8.1/205	10.2/260	10.2/260
Weight (oz/g)	21.7/615	21.8/619	25.4/720	25.7/729

Eyepieces

Eyepieces	• SDLv2	• HDF		
Product Code	40936M	40810M	40831M	40862M
Magnification 50	12-36x	13xWW	18xWW	12-36x
Magnification 60	15-45x	17xWW	23xWW	15-45x
Eye Relief (mm)	20-18	22	16	22-17

Getting Started

Your MM4 travelscope will bring a new dimension to long range observation bringing far away subjects into clear and sharp focus.

1. To minimize image shake caused by the high magnification, the instrument should be supported using a suitable tripod or mount.
2. Connect the fieldscope to the tripod or mount using the tripod socket located on the underside of the tripod sleeve.
3. Make sure the eyepiece is attached securely. The retractable rubber eyecup should be used in the down position when wearing glasses. This ensures the maximum available field of view is obtained. Be sure to return the eyecup to the up position if you or anybody else wants to view without glasses.
4. To focus, locate the subject in the center of the field of view and rotate the focus wheel until the subject comes into sharp focus. At high magnifications when depth of focus is shorter use the fine focus adjustment for greater accuracy.
5. If you are using a variable magnification or zoom eyepiece set the magnification to minimum when trying to locate your subject, only zooming once the subject is centered. With some eyepieces a small amount of refocusing may be required as the zoom is adjusted.

WARNING. Never under any circumstances use a fieldscope to view the sun. Doing so will cause serious damage to your eyes.

Waterproof Cases

Stay-on-the-Scope Waterproof in Black

Water resistant multi-layer padded cases individually designed to fit each model. Protects instrument while fitted to a tripod and in use. Includes removable end caps and adjustable carry strap.

Stay-on-the-Scope Waterproof in Green

As black models but supplied with a fully adjustable neoprene carry strap for extra comfort.



Care & Cleaning

To clean outer glass surface of the eyepiece and objective lens, gently remove excess dirt and dust using a compressed air device or blower brush. **Caution.** Hard and persistent rubbing of dirty surfaces can cause abrasive scratches on the surface of the glass which may distort viewing. Breathe on exposed glass surface and then wipe with an optical cleaning cloth (code 30277) in a circular motion until the surface is clean again. Do not attempt to dismantle the instrument as this will invalidate the warranty.

Whenever possible store in a stable dry atmosphere away from moisture. For extra protection, use the gift box or one of the optional cases available.

Telephotography

Telephotography using SLR cameras (digital or film) and compact system cameras. In this system the camera lens is substituted for the telescope + telephotoadapter or telescope + eyepiece + photoadapter. To convert MM4 models into a telephoto lens (MM4 50 530mm¹/f.10.6, MM4 60 700mm¹/f.11.7) you will need a 40215 telephotoadapter. Alternatively connect a suitable push fit photoadapter to your viewing eyepiece.² A T-mount is required to connect the assembly to the camera body.

Notes. Focusing is facilitated on the fieldscope. Camera may need to be operated in manual mode with shutter locks disengaged where necessary. The high magnification to aperture ratios result in slower shutter speeds compared with conventional telephoto lenses so choose an ISO setting of 400. For 35mm SLRs 400 ASA film is recommended. If possible use a cable release or remote control to reduce camera shake when operating the shutter.

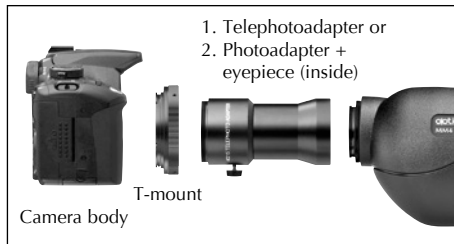
¹ This is an approximate figure based on 35mm SLR cameras. DSLR/compact system cameras use different sized image sensors compared to 35mm so an equivalent telephoto conversion figure must be calculated separately.

² For information on push fit photoadapters visit our Digiscoping & Telephotography pages at www.opticronusa.com

Digiscoping with digital compact cameras, camcorders and cell phones.

Shooting high magnification photos and video through your fieldscope is possible if you have a suitable camera, camcorder or cell phone. To find out how suitable or not your device is for digiscoping, position it up to the viewing eyepiece and see if an image appears on the screen. You may have to position the unit a few mm away from the eye lens of the eyepiece and increase the zoom to get a full frame image.

To find out more about bespoke digiscoping kits and universal mounts and brackets visit the Digiscoping & Telephotography pages at www.opticronusa.com or contact Sales on (704) 895 3046.



Warranty

Please keep this Warranty Card in a safe place

Model:.....

Serial No:..... Purchase Date:.....

Dealer:

Opticron MM4 travelscopes are of a very high quality both in their performance and construction and for your peace of mind we offer them with a Premier Plus Limited Lifetime Warranty.

The Premier Plus Limited Lifetime Warranty covers all the optical and mechanical components as well as the outer protective armor, but not accessories such as dust caps, objective lens covers etc. which are covered by our Standard Warranty.

In the case of accidental damage or defects attributable to faulty parts or assembly we will assume responsibility for the full costs of repair up to 5 years from the date of purchase. We reserve the right to decide whether defective parts or products should be repaired or replaced.

For the next 15 years your product is covered for defects attributable to faulty parts or assembly and we will assume responsibility for those costs only, charging labor costs to carry out the repair.

The Premier Plus Limited Lifetime Warranty does not cover loss, theft or deliberate damage to the instrument.

Registration

It is important you register your new purchase to activate your Premier Plus Limited Lifetime Warranty. To register your product and activate the warranty please visit www.opticronusa.com and complete the online Product Registration Form.

Premier Plus Limited Lifetime Warranties are available on new instruments purchased from participating dealers in North America and are transferable. If you part with your instrument please make sure the new owner has a copy of your original proof of purchase and re-registers their ownership at www.opticronusa.com.

Privacy

Opticron takes your privacy seriously and we do not share personal information with other companies.



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