

Telephotography

Telephotography using SLR cameras (digital or film). In this system the camera lens is substituted for the telescope + telephotoadapter or telescope + eyepiece + photoadapter. To convert MM2 models to a 530mm/f.10 telephoto lens you will need a 40215M 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 telescope. 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 ISO 400+ settings are suggested when using D-SLRs. For 35mm film SLRs 400/800ASA film is recommended. If possible use a cable release or remote control to reduce camera 'shake' when operating the shutter.

¹This is an approximate figure based on 35mm SLR cameras. Many D-SLRs use different sized image sensors compared to 35mm so an equivalent telephoto conversion figure must be calculated separately.

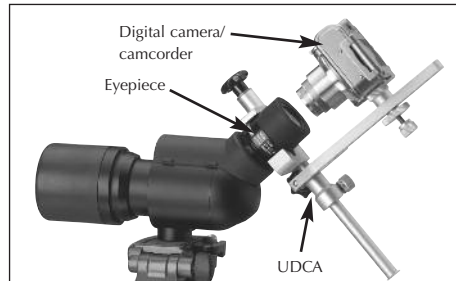
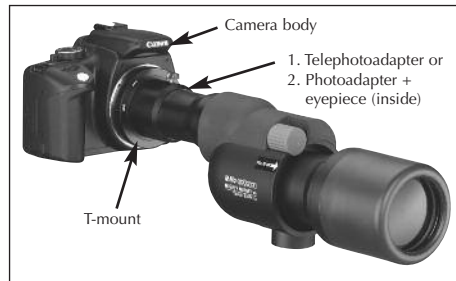
²For information on push fit photoadapters visit our TELEPHOTOGRAPHY page at www.opticron.co.uk

Telephotography using digital compact cameras and camcorders

In this system the camera is positioned up against the eyepiece of the telescope using the 40849 Universal Digital Camera Adapter. To get the best results:

1. Use any of the following eyepieces: 40812M, 40810M or zoom eyepieces 40909M, 40933M, 40862M, 40935M or 40936M on their lowest magnification settings.
2. Use a camera/camcorder with a lens diameter as small as possible.

For more information contact Sales on +44 (0)1582 726522



opticron

MM2 Mighty Midget Travlescopes

User Guide

V2 Models



Models

MM2 52

MM2 52/45

MM2 52 ED

MM2 52 ED/45

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MM2V20910

Getting Started

Your MM2 Mighty Midget telescope will open up a whole range of new and exciting impressions, whether for general use or specialist study.

Firstly extend the draw tube. To get the sharpest picture turn the focus wheel slowly until the image being viewed becomes sharp. To minimise image shake caused by high magnification the instrument should be supported using a suitable tripod or mount connected via the tripod socket located on the underside of the main body.

If the eyepiece being used has a fold down or retractable rubber eyecup it 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. The retractable lens hood should be extended when viewing in bright sunlight.



*If you are unable to obtain infinity focus at Position 2, retract to Position 1.

Specifications & Eyepieces

Specifications	52	52/45	52 ED	52 ED/45
Product Code	40900	40901	40907	40908
OG Dia (mm)	52	52	52	52
Min Focus (m) ¹	3.5	3.5	3	3.5
Length (mm)	OPEN	217	217	217
	CLOSED	177	177	177
Weight (g)	460	450	478	468

EYEPIECES	•HR MM2•	MM2
Product Code	40909M	40902M
Magnification	13-39x	25x
Field/1000m	49/30	38
Eyerelief	18-14	10

¹MM2 25x eyepiece

EYEPIECES	• HR/HR2				
Product Code	40812M	40930M	40931M	40932M	40933M
Magnification	13x	15xWA	20xWA	28x	13-39x ³
Field/1000m	58	60	58	29	49/30
Eyerelief	18	18	17	20	18-14

²40934 eyepiece adapter required

EYEPIECES	• SDL/SDLv2		• HDF						
Product Code	40935M	40936M	40810M	40809M	40858M	40859M	40860M	40861M	40862M
Magnification	12-36x ²	12-36x ²	13xWW	18xWW	24xWW	28xWA	45xWA	57x	12-36x
Field/1000m	58/32	60/36	60	60	49	43	30	20	60/29
Eyerelief	27-22	20-18	22	18	17	15	15	16	22-17

Twin-zip Carry Case

Fabricated using waterproof materials, this soft padded case is designed to protect the instrument when fitted to a tripod or mount, in transit or in storage. Must be removed before use.



S-O-S Waterproof Case

Water resistant multi-layer padded cases individually designed to fit and protect the instrument whilst connected to a tripod/clamp and in use. Includes removable end caps and adjustable padded carry strap.



Grippa Strap

Allows for easier hand-held use. Fits both models.



Care & Cleaning

To clean outer glass surfaces of any eyepiece and the objective lens, gently remove excess dirt and dust using a compressed air device or a 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 guarantee. **WARNING.** Never under any circumstances use a telescope to view the sun. Doing so will cause serious damage to your eyes. 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.