

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 IS 60 WP models to a 700mm¹/f.11.7 telephoto lens you will need a 40215 telephotoadapter with 40927S close focus adapter. 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.

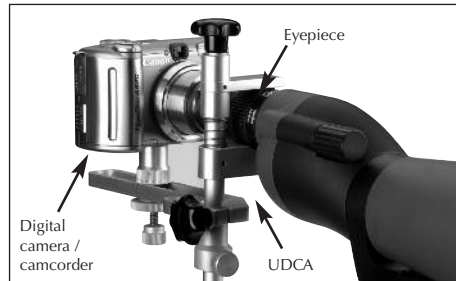
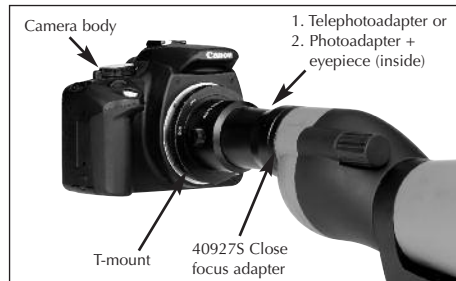
²For information on push fit photoadapters visit our TELEPHOTOGRAPHY page at www.opticron.co.uk

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: 40810S, 40812S, 40916S or zoom eyepieces 40918S, 40919S, 40933S, 40862S, 40935S or 40936S 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

IS WP Telescopes User Guide



Models
IS 60 WP
IS 60/45 WP
IS 60 ED WP
IS 60 ED/45 WP

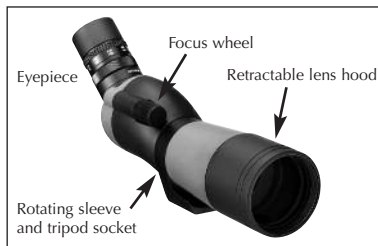
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ISWP0910

Getting Started

Your IS telescope will open up a whole range of new and exciting impressions, whether for general use or specialist study. 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 tripod sleeve. 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.



Specifications & Eyepieces

Specifications	60	60/45	60 ED	60ED/45
Product Code	40982	40983	40986	40987
OG Dia (mm)	60	60	60	60
Min Focus (m) ¹	7	8	7	7
Length (mm)	250	265	250	265
Weight (g)	689	705	750	789

¹40916S eyepiece

EYEPIECES	• IS		
Product Code	40916S	40918S	40919S
Magnification	25xWA	18-54x	15-45x
Field/1000m	46	31/15	41/26
Eyereief (mm)	18	34-18	27-16

EYEPIECES	• HR/HR2				
Product Code	40812S	40930S	40931S	40932S	40933S
Magnification	17x	20xWA	25xWA	35x	16-48x
Field/1000m	52	58	47	20	45/23
Eyereief (mm)	18	18	17	20	18-14

EYEPIECES	• SDL/SDLv2			• HDF					
Product Code	40935S	40936S	40810S	40809S	40858S	40859S	40860S	40861S	40862S
Magnification	15-45x	15-45x	17xWW	23xWW	32xWW	36xWA	58xWA	72x	15-45x
Field/1000m	43/24	44/27	64	52	38	32	20	14	46/21
Eyereief (mm)	27-22	20-18	22	18	17	15	15	16	22-17

To connect eyepieces; 40810, 40809, 40858, 40859, 40860, 40861, 40812, 40930, 40931 and 40932 use **40925S adapter**.
To connect eyepieces; 40862, 40935 and 40936 use **40927S adapter**. To connect eyepiece; 40933 use **40928S adapter**.

Waterproof Cases

Stay-on-the-scope waterproof in Black. 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.



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.