

50065 DCC adapter - compatibility with Opticron eyepieces

The following list shows which insert (or set of inserts) are required to fit a particular eyepiece. Prices of **recommended eyepieces**; HDF T 40810 and HDF T 40937 are listed in the table below.

| 50066 ø51 | 50067 ø45.5 | 50068 ¹ ø41.5 | 50069 ² ø33 |
|-------------|---|---|--|
| HDF T 40862 | HDF T 40810 HDF T 40937 HR2 40933 HDF T 40872 dis HDF T 40809 HDF 40862 dis HR MM2 40909 ³ | HDF 40810 ³ dis HDF 40809 ³ dis HR2 40930 ³ HR2 40931 ³ IS 40918 ³ | HR 40812 ³ HR 40813 ³ dis |

¹50068 insert only fits in combination with 50067 insert

²50069 insert only fits in combination with 50068 and 50067 inserts

³Remove rubber eyecup before connecting DCC adapter
dis - discontinued eyepieces

Accessories

Chosen specifically to complement the camera, camera mount and DCC adapter, the following accessories are available to purchase separately.

SD memory 2GB

Storage 2GB:

Images

10M (4384x2464 pixels)

S.FINE 390 exp FINE 770 exp

8M (3624x2448 pixels)

S.FINE 490 exp FINE 970 exp

Movies

(VGA 640x480) 22 mins approx.

Maximum single continuous movie length 15 mins



Code: 50072

Li-ion battery



DMW-BCF10E 3.6V
940mAh
Code: 50153

Cable Release Frame



Includes cable release
Code: 50144

Pricing

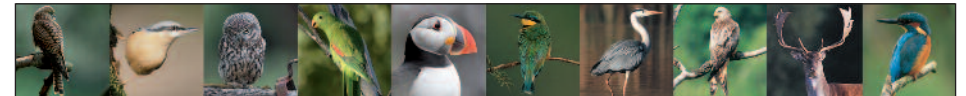
| Code | Model | SRP £ inc VAT |
|------------------------------|---|---------------|
| 50155 | FS7 DCC kit price includes; FS7, 50072, 50151, 50065, 50066 & 50067 | 249.00 |
| 50156 | FS7 SDL DCC kit price includes; FS7, 50072, 50151, 41114 | 249.00 |
| 50151 | Camera mount FS7 | 49.00 |
| 50153 | Battery DMW-BCF10E | 39.99 |
| 50072 | Lexar 2GB SD (or equivalent) | 10.99 |
| 50073 | Lexar 4GB SD (or equivalent) | 17.99 |
| 50144 | Cable release frame (including cable release) | 24.99 |
| 41114 | Photoadapter push-fit SDL (28mm thread) | 55.00 |
| 50065 | DCC adapter | 39.00 |
| 50066 | 51mm insert for 50065 | 9.00 |
| 50067 | 45.5mm insert for 50065 | 9.00 |
| 50068 | 41.5mm insert for 50065 ¹ 50068 insert only fits in combination with 50067 insert | 9.00 |
| 50069 | 33mm insert for 50065 ² 50069 insert only fits in combination with 50068 & 50067 inserts | 9.00 |
| Recommended Eyepieces | | |
| 40810 | HDF T | 129.00 |
| 40937 | HDF T | 129.00 |

OPTICRON PO Box 370, Unit 21, Titan Court, Laporte Way, Luton, Bedfordshire, LU4 8YR, UK
Telephone: 01582 726522 Facsimile: 01582 723559 Email: sales@opticron.co.uk

opticron

Digital Compact Camera Kits for Telephotography

featuring the Panasonic Lumix FS7 camera
with 50065 DCC adapter or
41114 Photoadapter push-fit SDL (28mm thread)



Product Information & User Guide

including Retail Price List

January 2010

Opticon FS7 digital compact camera kits are a high quality, easy to use solution to the problem of choosing a suitable compact camera for high magnification telephotography (digi-scoping). FS7 kits contain a Panasonic Lumix FS7 camera with 2GB SD memory card and bespoke camera mount plus the option of one of the following:

- DCC adapter and 2 inserts for connection to selected HDF T, HDF, HR2 and HR eyepieces
- Photoadapter push-fit SDL (28mm thread) for connection to the 40935 SDL eyepiece

Optional accessories include a 4GB SD card, universal cable release system and spare Panasonic Li-ion rechargeable battery.



Product information



Camera fitted with mount

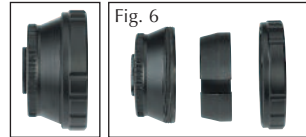


Fig. 6

Panasonic Lumix FS7 camera

- 10 megapixel CCD
- Optical image stabiliser
- Zoom lens f.5.5~22mm aspheric 4x optical zoom
35mm equivalent; 33mm to 132mm
Magnification; 0.66x to 2.64x
- F2.8~F5.9
- TTL auto focus
- Macro: 5~50cm (wide)
- Shutter: 8~1/2000
- Shooting: single or burst
- Exposure
 - Metering: Multiple
 - Compensation: $\pm 2EV$ 1/3 EV steps
 - ISO: auto, 80, 100, 200, 400, 800, 1600, High sense mode 1600-6400
- Modes
 - Program (Intelligent Auto, Normal, 25 Scene, Movie)
- 2.7" TFT LCD monitor
- WxHxD: 97x54.4x21.7mm
- Weight: 117g (w/o battery & card)
- **Supplied complete with** 3.6V Li-ion rechargeable battery, charger and software

41114 Photoadapter push-fit SDL (28mm)

A lightweight aluminium tube assembly manufactured to the diameter of the 40935 SDL eyepiece. Camera side, the adapter is fitted with a 28mm¹ thread for connection to the mount supporting the camera. Eyepiece side, the push-fit connection over the 40935 SDL eyepiece has a locking thumb screw.

Note: To get the best image adjust magnification setting on the eyepiece to; HR 66 38x, HR 80 48x, GS 665 32x, GS 815, ES 80 40x

¹ Also supplied with 42mm T-mount step ring

50065 DCC adapter

The DCC adapter comprises an aluminium tube & locking ring that can be fitted with a number of delrin inserts of different diameters. Camera side, the DCC adapter features a 28mm thread connection to the lens mount supporting the camera. Eyepiece side, the push-fit connection over specific HDF or HR eyepieces has anti-clockwise lock down. Inserts are available in a choice of internal diameters to suit different eyepieces;

- 50066 $\varnothing 51mm$
- 50067 $\varnothing 45.5mm$
- 50068 $\varnothing 41.5mm$ ¹
- 50069 $\varnothing 33mm$ ²

¹50068 insert only fits in combination with 50067 insert.

²50069 insert only fits in combination with 50068 and 50067 inserts.

User instructions

1. Choosing an eyepiece (50065 DCC adapter only)

For best overall image quality and the widest choice of magnifications at which a full frame image is obtained use any of the following eyepieces: **HDF T 40810**, **HDF T 40937** with 50067 insert or **HR 40812** with 50069 in combination with 50068 and 50067 inserts. Depending on the focal length and objective dia. of your telescope, other suitable eyepieces may include; HDF T 40862, HDF T 40809, HR2 40933 and HR2 40930.

2. Initial setup

Before connecting everything together, set up your telescope and eyepiece on a tripod as you would for viewing, making sure your chosen eyepiece is screwed firmly into position. Focus on an object in the normal way until the image being viewed comes into sharp focus. Twist-type eyecups should be in the 'down' position and fold down rubber eyecups should be removed from the eyepiece.

3. Attaching the camera mount to the camera body

The camera slots into the cradle [Fig. 1] and is fixed in position by screwing the thumbscrew into the 1/4" socket on the underside of the camera body [Fig. 2]

4. Preparing and fitting your chosen adapter

- Assemble the component parts of your chosen adapter as illustrated on previous page. [Fig. 6]
- If using 41114, make sure the 28mm threaded step ring is fitted to the main housing.
- Screw the adapter onto the camera mount. [Fig. 3]
- The camera is now ready to attach to the viewing eyepiece. [Fig. 4]

5. Fitting the combined assembly to the telescope eyepiece [Fig. 5]

- Place assembly over the eyepiece and push down until the internal wall of the adapter comes into contact with the end of the eyepiece. [a]
- Hold the main section of the adapter secure and turn the locking ring anti-clockwise until tight making sure the camera remains horizontal. [b]
- Turn the camera ON, making sure the flash is switched off before taking photographs. For additional guidance on how to operate the FS7 please read the instructions supplied with the camera.

Tips for taking pictures

- The FS7 has no conventional viewfinder so images are composed using the LCD monitor. When the camera is turned on the LCD monitor will show a single rounded picture of the image you originally set your scope and eyepiece to. Once this single rounded picture is obtained you can adjust the camera zoom to eliminate any vignetting and make any fine focus adjustments using the telescope.



Fig. 1



Fig. 2

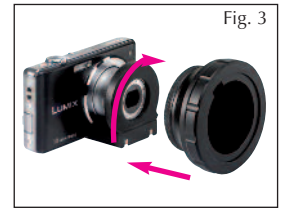


Fig. 3



Fig. 4

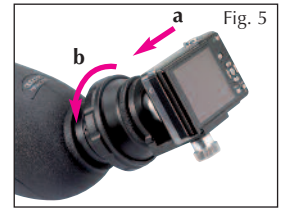


Fig. 5