

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

12M (4000x3000 pixels)

460 exp

8M (3624x2448 pixels)

680 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
50165	FS10 DCC kit price includes; FS10 camera + camera mount, 50072, 50065, 50066 & 50067	265.00
50166	FS10 SDL DCC kit price includes; FS10 camera + camera mount, 50072, 41114	265.00
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

Digital Compact Camera Kits

featuring the Panasonic Lumix FS10 camera
with 50065 DCC adapter or
41114 Photoadapter push-fit SDL (28mm thread)



Product Information & User Guide

including Retail Price List

May 2010

Opticron FS10 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). FS10 kits contain a Panasonic Lumix FS10 camera with 2GB SD memory card and bespoke camera mount plus the option of one of the following:

- a. DCC adapter and 2 inserts for connection to selected HDF T, HDF, HR2 and HR eyepieces
- b. 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

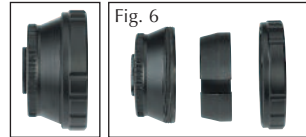


Fig. 6

Panasonic Lumix FS10 camera

- 12 megapixel CCD
 - Optical image stabiliser
 - Zoom lens f.5~25mm aspheric 5x optical zoom 35mm equivalent; 28mm to 140mm
 - F2.8~F6.9
 - TTL auto focus
 - Macro: 5~50cm (wide)
 - Shutter: 8~1/1600
 - 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: 98.4x55.2x23.4mm
 - Weight: 123g (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 Ø51mm
- 50067 Ø45.5mm
- 50068 Ø41.5mm¹
- 50069 Ø33mm²

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.

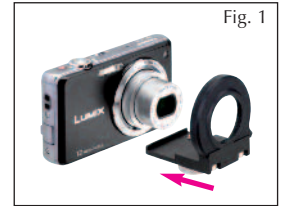


Fig. 1

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]



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 the 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]

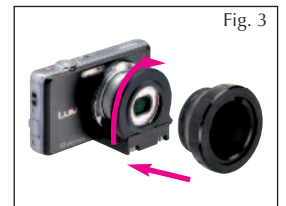


Fig. 3

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 FS10 please read the instructions supplied with the camera.



Fig. 4

Tips for taking pictures

- The FS10 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.

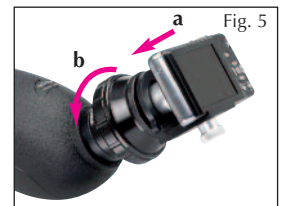


Fig. 5