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, HDF T 40937 and HR 40812 are 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 HDF T 40809 HDF 40862	HDF 40810 HDF 40809 HR2 40930 HR2 40931	HR 40812 HR 40813 MM2 40903

[1]50068 insert only fits in combination with 50067 insert
[2]50069 insert only fits in combination with 50068 and 50067 inserts

Accessories

Chosen specifically to compliment the camera, camera lens mount and DCC adapter, the following accessories are included in either the Mini or Maxi kits. They are also available separately.

SD memory 512Mb

Storage 512Mb:
Images
10M (3648x2736 pixels)
S.FINE 98 exp FINE 188 exp
7M (3136x2352 pixels)
S.FINE 130 exp FINE 274 exp
Movies
(640x480)
30fps 25min 18sec

Remote control

SRC-A3 Infra-red
Code: 50112

Li-ion battery

SLB-0837(B) 3.7V
800mAh. Code: 50113

Battery charger kit

Includes mains and 12v DC in-car charger and carrier for battery. Code: 50109

Pricing

Code	Model	SRP inc VAT
50115	**NV10 DCC Mini kit** price includes; NV10, 50070, 50111, 50112, 50065, 50066 & 50067	279.00
50116	**NV10 SDL DCC Mini kit** price includes; NV10, 50070, 50111, 50112, 50064	279.00
50117	**NV10 DCC Maxi kit** price includes; NV10, 50070, 50111, 50112, 50113, 50109, 50065, 50066 & 50067	329.00
50118	**NV10 SDL DCC Maxi kit** price includes; NV10, 50070, 50111, 50112, 50113, 50109 & 50064	329.00
50111	Camera lens mount NV10	49.00
50112	Remote control SRC-A3	15.00
50113	Battery SLB-0837(B) 3.7V 800mAh	15.00
50109	Digi Charger + carrier	34.99
50070	Fuji 512Mb SD (or equivalent)	15.00
50071	Lexar 1Gb SD (or equivalent)	20.00
50064	SDL DCC adapter	50.00
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
40812	HR	57.00

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

opticron

SAMSUNG

Digital Compact Camera Kits for Telephotography

featuring Samsung NV10 camera with 50064 SDL DCC adapter or 50065 DCC adapter

Product Information & User Guide

including Retail Price List

December 2007

Opticron 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).

NV10 kits are available in **Mini** or **Maxi**. The **Mini** kit comprises a Samsung NV10 camera with 512Mb SD memory card, bespoke camera lens mount, remote control plus the option of either the DCC adapter and 2 inserts for connection to selected HDF T, HDF, HR2 and HR eyepieces or an SDL DCC adapter for connection to the 40935 SDL eyepiece. **Maxi** kits also include a spare Li-ion rechargeable battery and an AC mains / DC in-car charger.

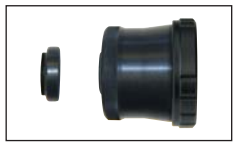
Product information

Camera fitted with lens mount

Samsung NV10 camera

- 10.1 mega pixel CCD
- Schneider varioplan f.7.4~22.2mm 3x optical zoom
  35mm equivalent; 35mm to 105mm
  Magnification; 0.7x to 2.1x
- F2.8~F5.1
- TTL auto focus
- Macro 4~80cm (wide)
- Shutter 15~1/1500
- Exposure
  - Control: Program AE,
  - Metering: Multi, Spot, Centre
  - Compensation: ±2EV 1/3 EV steps
  - ISO: auto, 100, 200, 400, 800, 1000
- Shooting Modes: Auto, Program (incl. high speed & multiple capture), Manual, ASR, Effect, Scene (11)
- AVI MPEG-4 15/30 fps movies
- 2.5" colour TFT LCD screen
- LxWxH: 96.5x60x18.5mm
- Weight: 149g (w/o battery & card)

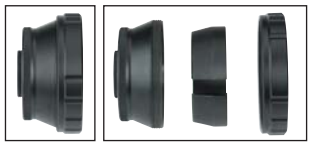
Supplied complete with 3.7V Li-ion rechargeable battery, charger cable and software



50064 SDL DCC adapter

The SDL DCC adapter comprises an aluminium tube & locking ring fitted with a delrin insert manufactured to the diameter of the 40935 SDL eyepiece.
Camera side, the adapter features a 28mm screw thread connection to the lens mount supporting the camera.[1] Eyepiece side, the push-fit connection over the 40935 SDL eyepiece has anti-clockwise lock down.

[1] The 5mm spacer supplied should be fitted when using the SDL eyepiece at its lowest magnification.



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 screw 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 Ø41.5mm[1]
- 50069 Ø33mm[2]

[1]50068 insert only fits in combination with 50067 insert.
[2]50069 insert only fits in combination with 50068 and 50067 inserts.

User instructions

Choosing an eyepiece (50065 DCC adapter only)
HDF/HR eyepieces
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 40872, HDF T 40809, HR2 40933 and HR2 40930.

1. 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.

2. Preparing the camera and lens mount

- Loosen the locking ring on the lens mount and slide the mount over the lens housing on the camera until it fits flush against the front of the camera body. [Fig. 1]
- Holding the camera and locking ring section of the lens mount in one hand, turn the main tube of the lens mount clockwise until the mount is securely tightened. [Fig. 2]

3. Preparing and fitting your chosen DCC adapter

- Assemble the component parts of your chosen DCC adapter as illustrated on previous page.
- Screw the DCC adapter onto the camera lens mount. [Fig. 3]
- The camera is now ready to attach to the viewing eyepiece. [Fig. 4]

4. 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 DCC 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 NV10, please read the instructions supplied with the camera.

Tips for taking pictures

- The NV10 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 zoom function to eliminate any vignetting and make any fine focus adjustments using the telescope.
- Set shooting mode to P "Program" as this gives you access to the majority of manual functions you may want to use including; Shooting mode (single, high speed and Mcapture), Metering, Remote ON/OFF, Flash ON/OFF, ISO settings and Exposure Compensation.

Fig. 1

Fig. 2

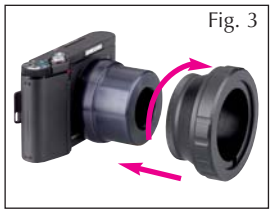


Fig. 3

Fig. 4

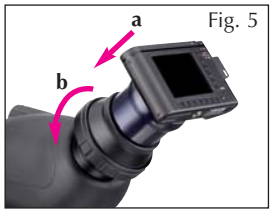


Fig. 5