

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 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

¹50068 insert only fits in combination with 50067 insert

²50069 insert only fits in combination with 50068 and 50067 inserts

Accessories

Chosen specifically to compliment the camera, clam mount and DCC adapter, the following accessories are **included as part of the Maxi kits** and are also available separately.

SD memory 512Mb*

*included in maxi kit



Image Storage 512Mb:
7M (3072x2304 pixels)
S.FINE 125 exp FINE 231 exp
6M (2816x2112 pixels)
S.FINE 148 exp FINE 274 exp
MOVIE
(720x480)
20fps 27min
(640x480)
30fps 34.23min
15fps 1hr 5min

Li-ion battery



FLNP40 3.7V 710mAh.
Code: 50079

Battery charger kit



Includes mains and 12v DC in-car charger and carrier for battery. Code: 50080

Pricing

Code	Model	SRP inc VAT
50105	NV3 DCC Mini kit price includes; NV3, 50101, 50102, 50065, 50066 & 50067	299.00
50107	NV3 DCC Maxi kit price includes; NV3, 50101, 50102, 50079, 50080, 50070, 50065, 50066 & 50067	379.00
50106	NV3 SDL DCC Mini kit price includes; NV3, 50101, 50102, 50064	299.00
50108	NV3 SDL DCC Maxi kit price includes; NV3, 50101, 50102, 50079, 50080, 50070 & 50064	379.00
50101	Clam mount NV3	49.00
50102	Cable release arm & 25cm cable release	14.99
50079	Battery 3.7V 710mAh (Energiser or equivalent)	24.99
50080	Digi Charger + carrier	34.99
50070	Fuji 512Mb SD (or equivalent)	19.99
50071	Lexar 1Gb SD (or equivalent)	29.99
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

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Digital Compact Camera Kits for Telephotography

featuring Samsung NV3 camera with 50064 SDL DCC adapter or 50065 DCC adapter



Product Information & User Guide

including Retail Price List

March 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).

Current NV3 kits are available in Mini or Maxi. The Mini kit comprises a Samsung NV3 camera with a bespoke clam mount, cable release arm + cable release plus the option of either a DCC adapter for connection to selected HDF T, HDF, HR2 and HR eyepieces or an SDL DCC adapter for connection to the 40935 SDL eyepiece. In addition, Maxi kits include a high capacity SD memory card, spare rechargeable battery and in-car charger.



Product information



Camera fitted with clam mount



Samsung NV3 camera

- 7.2 mega pixel CCD
- SHD lens f.6.3~18.9mm with 3x optical zoom
35mm equivalent; 38mm to 114mm Magnification; 0.76x to 2.28x
- F3.5~F4.5
- TTL auto focus AF
- Macro: 5~50cm (wide)
Super macro: 1~5cm (wide)
- Shutter 2~1/2000
- Exposure
 - Control: Program AE, Metering: Multi, Spot
 - Compensation: $\pm 2EV$
 - ISO: auto, 50, 100, 200, 400, 800, 1000
- MPEG-4 15/20/30 fps VGA movies
- 2.5" colour TFT LCD screen
- LxWxH: 94.5x57x17.5mm
- Weight: 142g (w/o battery & card)

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

50064 SDL DCC adapter

The SDL DCC adapter consists of a 2 piece locking ring in aluminium combined with a flexible delrin insert. Camera side, the adapter features a 28mm screw thread connection to the clam mount supporting the camera.¹ Eyepiece side is a push fit connection to the clam mount supporting the camera. Eyepiece side is a push fit connection to the clam mount supporting the camera.¹ Eyepiece side is a push fit connection over the 40935 SDL eyepiece with anti-clockwise lock down.

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

50065 DCC adapter

The DCC adapter consists of a 2 piece locking ring in aluminium combined with a flexible delrin insert. Camera side, the adapter features a 28mm screw thread connection to the clam mount supporting the camera. Eyepiece side is a push fit connection over specific HDF or HR eyepieces with 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

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.

2. Preparing the camera and clam mount

- Loosen the thumb screws on the clam mount and slide it over the camera until the inside edge fits flush against the side of the camera body. [Fig. 1]
- Tighten the thumb screws until the mount feels secure. [Fig. 2]

3. Preparing your chosen DCC adapter and fitting the clam mount

- Assemble the component parts of your chosen DCC adapter as illustrated on previous page
- Screw the DCC adapter onto the clam mount [Fig. 3]

4. Fitting the cable release arm (optional) [Fig. 4]

In combination with the 25mm cable release, this attachment reduces shake when operating the shutter. To fit, slot the arm into the recess (top surface of clam mount) and fix into position using the two hexagonal headed bolts supplied.

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

- Place your chosen DCC adapter over the eyepiece and push down until the internal wall contacts 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 NV3, please read the instructions supplied with the camera.

Tips for taking pictures

- The NV3 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.
- Use the focusing on the telescope to focus at different distances.



Fig. 1

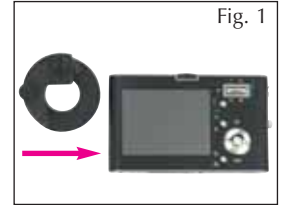


Fig. 2



Fig. 3



Fig. 4



Fig. 5

