



**ESPRIT 250
(BW-1070)**

OPERATING INSTRUCTIONS

Bowens Esprit 250 Operating Instructions.

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3. Fuse (+ Spare Fuse).
4. Mains On/Off Switch
5. Modelling Lamp Control Switch

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3. 'Ready' Indicator
4. Photocell Cover
5. Test/Open Flash
6. Modelling Control

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1. General

Welcome to the world-wide family of Bowens flash equipment users, and congratulations on selecting the latest compact flash in our range. The Esprit 250 has been designed using the latest technology, to produce a unit that is very simple to operate, small in size and weight, yet has a powerful output.

2. Safety Notes

- i. The Esprit 250 must not be used in an environment where moisture or flammable vapour is likely to come in contact with the unit.
- ii. A fire hazard exists if flammable materials are placed in close proximity to either the flashtube or modelling bulb when the unit is in use.
- iii. The charging and modelling circuitry of the Esprit 250 is protected by a 5A (F) 20mm fuse mounted on the rear panel (Fig.1. 3). Disconnect the supply before changing the fuse. **Never** replace with a fuse of a different rating. A spare 5A fuse is fitted in the fuse holder.
- iv. Switch off and disconnect supply before changing fuse, modelling bulb or flashtube.
- v. Do not restrict slots in case when in use.
- vi. Care must be exercised when handling equipment that has been in use. The reflector and front end of the unit can become **Very Hot**.
- vii. Due to the high voltage/high energy used in the Esprit 250, servicing must be carried out by a qualified, authorised Service Centre.

3. Contents Of Carton

1. Esprit 250 with flashtube
2. Sync. Lead
3. Mains Lead
4. Instructions

4. Fitting The Modelling Lamp

Switch off and disconnect from supply. Screw modelling lamp into ES lampholder in the centre of the reflector.

Note: A 275W Photoflood (BW-1824) or 250W Halostar (BW-1024) lamp is recommended for the Esprit 250. It is recommended that lamps purchased under a Bowens stock code number are used as replacements only. The manufacturer will not accept liability on the use of any other lamp.

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5. Power Supply Connections

240V AC 50Hz Use mains lead supplied to connect to mains supply.

6. Mains On/Off Switch

The green illuminated On/Off switch (Fig.1. 4) on the rear panel controls the power to both the flash and the modelling lamp. Setting the switch to 1 turns the unit ON and 0 turns the unit OFF.

7. Flash Power Selection

The flash power output is variable over two f stops from full to one quarter (1/4) power. The full stored energy of 250 Watt Seconds (joules) gives a guide number of 60 using a 50° Keylite reflector and 100 ISO film. Half and quarter power settings are marked on the panel by round dots and figures. Rotating the control (Fig.2. 2) from full to half and half to quarter, gives a reduction in output equivalent to 1 f stop for each step.

8. Charge

When first switched 'ON' the green illuminated ON/OFF switch (Fig.1. 4) will light. When the unit has charged to the level set by the flash power selector (Fig.2. 2) the green ready LED (Fig.2. 3) will light. Your Esprit 250 is now ready to fire.

Note:- The Esprit 250 synchronising circuit is inhibited until the unit is 100% charged, unlike some other manufacturer's equipment that can be fired when only 80% charged. This ensures that every flash is identical.

9. Synchronisation

Open Flash: For testing or multiple flash applications the Open Flash Pushbutton (Fig.2. 5) can be used. The Esprit has a built in photocell enabling the unit to be triggered by the flash from any other flash unit or a small camera mounted flash gun. The photocell is mounted behind the red transparent cover on the top of the Esprit.

Sync Socket: The standard quarter inch jack type socket on the rear panel of the unit (Fig.1. 1) may be used for direct connection to a camera set to 'x' synchronisation. Two Esprit 250 flash units may be connected together using a 'y' connector. An Infra Red Receiver or Omnicell may also be plugged into this socket.

10. Modelling Lamp Control

With the modelling lamp control switch (Fig.1. 5) in the central position the modelling light is OFF. With the switch set to 'Intermittent' the modelling light will go out when the unit is flashed and come back on when the unit comes to ready. This enables the photographer to see from the camera position that all Esprit units in use have fired. With the switch set to 'Continuous' the modelling light remains on all the time. The modelling light may be varied in ratio with the flash power output by aligning the indicator line on the modelling output control knob (Fig.2. 6) with that of the flash control (Fig.2. 2).

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11. Fuse (Fig.1. 3)

The modelling and flash circuitry is protected by a single 5 amp (F) 20mm fuse mounted on the rear panel. Never replace the fuse with one of a different rating. As the fuse may blow when the modelling lamp fails always check the fuse when replacing bulb. A spare fuse is supplied in the fuse holder. Always switch OFF the Esprit 250 before changing the bulb or fuse.

12. Fitting / Removing A Reflector

A range of reflectors is available for the Esprit 250. To fit, slide the neck of the reflector over the front of the unit. Align the three pegs on the reflector with the three slots in the retaining ring. Press down and turn clockwise to lock.

To remove reflector, press Latch Knob (Fig.2. 1) turn the reflector fully anti-clockwise and withdraw.

If an umbrella is to be used a 'Spill Kill' (BW-1885) should be fitted and the umbrella inserted through the hole in the mounting bracket on the Spill Kill and locked into position with the knurled screw.

Note: Take care when fitting / removing reflectors not to damage the flashtube assembly. The flashtube is very delicate, avoid unnecessary handling of the glass tube. Always switch off and disconnect from mains supply before fitting / changing the flashtube assembly.

Warning High Voltage

Do not touch the flashtube assembly for thirty minutes after disconnecting from supply.

13. Replacement Of Flashtube

Ensure that the unit is switched off and disconnected from the mains supply and then wait thirty minutes before touching / removing flashtube. Remove the protective cap and unwind the twisted Trigger wire from the flashtube support. Gently pull flashtube assembly out of the unit. To replace the flashtube, holding the flashtube as shown in Fig.3 and taking care to support both legs of the tube, gently but firmly, push the flashtube into position. Wind the Trigger wire around the flashtube support.

14. Operation

Mount the Esprit 250 on selected support system. The mounting bush on the 'L' bracket allows for two possible ways of mounting to the stand / support (Fig.4). Method B may be found useful if the light is required to point down. Fit the reflector and connect to supply.

Plug in the sync cord and connect to camera shutter at 'x' synchronisation. Alternatively, plug in Infra Red Receiver or Omnicell. Switch ON and select modelling lamp ON or OFF and flash power required. When the unit is ready

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to fire the green LED (Fig.2. 3) will light. Press Open Flash Pushbutton (Fig.2. 5) and check that the unit operates correctly.

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Unit Specification.

Stored Energy (Max)	250Ws
Charge Time (Full Power 240v)	1.4 secs.
Supply Voltage AC	190-250 VAC 50Hz
Voltage Stabilisation	+/- 1%
Modelling Lamp	275W Photoflood or 250W Halostar
Ready Indication	100% of charge
Fuse	5A (F)
Sync Volts	15v
Guide Number - Full Power 50° Keylite, 100 ISO	60
Flash Duration (Full Power)T 0.5	1/1100th
Flash Colour Temperature	Approx. 5300K UV coated
Flash Power Control	Full to 1/4
Modelling Power Control	Independent & Fully Variable
Dimensions	DIA. 145mm, LEN. 362mm
Weight	2.9Kg (6lb 6oz)

Due to our policy of constant product improvement Bowens International reserve the right to change equipment specifications without notice.

Esprit 250 Instructions: (BW-1070) BWL-0172/5

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