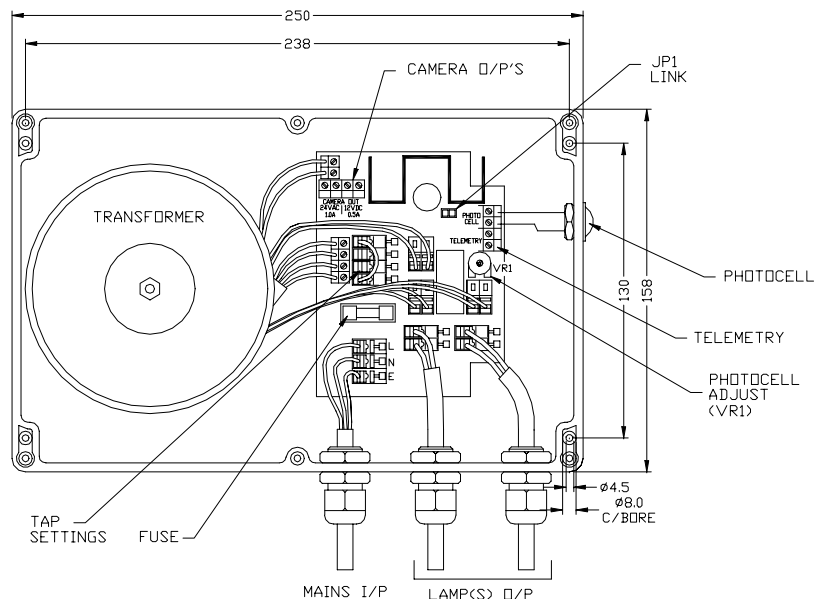


UF600-003 Power Supply Unit.



Mains Input:

	UF600-003 (110V)	UF600-004 (230V)
Max Current (A)	4.1	2.1
Fuse (AT)	6.3	3.15

Output: 30V AC at 6.4A to each lamp.
12V DC at 500mA

Polarity: The lamp output connections are NOT polarity sensitive.

Tap Settings:

	Red	Orange	Yellow
110V Version (V AC)	117.5	122.5	127.5
230V Version (V AC)	225	235	245

(Blue wire common)

Installation Instructions UF600-003 Power Supply Unit.

Extreme CCTV Inc have designed dedicated power supplies to operate the Extreme range of Infrared Lamps. All installation and maintenance functions should be carried out by qualified and competent personnel. This power supply provides the following functions:

1. Photocell for automatic day/night switching. The sensitivity of the photocell can be altered by the use of a potentiometer located inside the PSU.
2. High quality toroidal transformer to provide the required 30V AC supply to Extremes UF600 infrared lamps. Taps are provided for adjustment of the mains voltage.
3. One camera power supply facility 12V DC 500mA.
4. Remote switching interface to provide manual remote switching of the lamps.

GENERAL

Supplied in two formats: UF600-003 (120Vac 6.3AT Mains Fuse):
To power and control **Two UF600** lamps.

(230V versions are also available).

WARNING: Ensure that the mains supply is isolated before checking that all connections are secure and correct.

The unit is supplied in an IP66 weather proof enclosure, as standard. Care should be taken during installation to avoid damage to any of the components. Extra care should be taken with power tools as the control circuits incorporate sensitive components. Ensure that all fixings are secure and the lid is sealed. The mains input to the PSU should be protected by a slow blow fuse or breaker.

Earthing: The UF600 lamp housing is not connected to mains earth. The chassis plate is earthed via an earth lead from the PCB. Electrical connections should be sound. Up to 6.4A can flow in the lamp cable.

DAY/NIGHT PHOTOCELL

Extreme provide a photocell mounted in the PSU enclosure as standard. The PSU and photocell should be mounted externally in order for it to monitor the prevailing light conditions.

The photocell is designed to monitor the average light conditions. It is important not to point the photocell at a nearby artificial light source as it will affect its performance. Also, it is important to ensure that the photocell is not blanked off and is recommended that it faces sideways or downwards on the enclosure - not upwards.

The photocell is designed to automatically switch the lamps ON at dusk and turn OFF at dawn. A high degree of hysteresis is incorporated to avoid on/off switching in marginal light conditions.

The unit is factory set at approximately 20 lux ON and 65 lux OFF, but can be adjusted using the photocell sensitivity pot (VR1).

TOROIDAL TRANSFORMER

The toroidal transformer is specially designed to provide the correct voltage (30V) at the lamp housing after allowing for voltage drops across the 4m cable supplying the lamps. It is important that the correct power supply (and hence transformer) is connected to lamps with appropriate cable lengths.

NOTE: It is very important to run the lamp unit at the correct voltage. **DO NOT RUN THE BULBS IN EXCESS OF 30V at the bulb. This will shorten bulb life.**

(Transformer may be tapped to suit mains input voltags. See table).

CAMERA POWER SUPPLY

The PSU has a built-in 12V DC, 500mA regulated camera supply. This supply can be used for other ancillary equipment eg Fibre optic interface, PIR's etc..

REMOTE SWITCHING INPUT

The lamps may be activated remotely by a volt-free contact latched across the telemetry connector. When connecting to the telemetry, JP1 link must be removed.

A telemetry input is defined as 'on' when the input is connected to 0V via the telemetry loop. The photocell disables the remote switching input during daylight hours. To activate the unit continuously during hours of darkness using the photocell, ensure the link (JP1) is fitted (Factory Setting).

Testing of the unit during daylight hours can be achieved by covering up the photocell with the telemetry link (JP1) fitted. The PSU lid must also be fitted during this test.

TROUBLE SHOOTING

1. **Check mains supply.**
Visually check transformer for physical damage or over-heating. The mains input to the PSU should be protected by a slow-blow fuse or breaker, check the continuity of this fuse as well as the PSU internal fuse.
2. **Check lamp output from PSU.**
The output from the PSU can only be read using a multimeter. With the telemetry link closed and photocell disconnected, check lamp output is between 29.0 – 30.0V AC with the lamp connected. Check that opening and closing the telemetry link switches the output voltage on/off.
3. **Check photocell functions**
By covering and uncovering the photocell with telemetry link closed. The lamp should turn On and Off respectively. The photocell operation has a in built delay of up to 10s. Note: The PSU lid will need to be in place during this test, to eliminate light from the photocell.
4. **Check the bulb.**
Disconnect the lamp supply lead at the PSU lamp output and check continuity of the bulb.

Contact Details

Extreme CCTV Inc
3021 Underhill Avenue
Burnaby
Vancouver
V5A 3C2
Canada
Tel: +001 604 420 7711
Fax: +001 604 420 3300
www. ExtremeCCTV.com