



RAYMAX + RAYLUX

Installation Instructions



**Narrow angle using
Adaptive Illumination**



**Wide angle using
Adaptive illumination**

specifications subject to change without notice

Standard PSU Specifications

RAYMAX Series

	RM200	RM100	RM50	RM25
Input	AC 85-265 universal	AC 85-265 universal	AC 85-265 universal	AC 85-265 universal
Fuse	2.5A anti-surge	2.5A anti-surge	1A anti-surge	1A anti-surge
Output	4.4A @ 13.5V < 80W	2.4A @ 13.5V < 50W	1A @ 13.5V < 20W	0.5A @ 13.5V < 10W
Adjustable Power	10% - 100%	10% - 100%	10% - 100%	10% - 100%
Weight	1.85 kg	1.65 kg	0.9 kg	0.8 kg
Dimensions L x W x D	160 x 160 x 81	160 x 160 x 81	100 x 160 x 61	100 x 160 x 61
Drilling Dimensions	4 x M4 holes @ 145 x 123mm	4 x M4 holes @ 145 x 123mm	4 x M4 holes @ 145 x 63mm	4 x M4 holes @ 145 x 63mm

All standard PSU's provide current controlled output specifically calibrated for the LED head. The power supplies feature adjustable power, adjustable photocell and telemetry input.

RAYLUX Series

	RL200	RL100	RL50	RL25
Input	AC 85-265 universal	AC 85-265 universal	AC 85-265 universal	AC 85-265 universal
Fuse	2.5A anti-surge	2.5A anti-surge	1A anti-surge	1A anti-surge
Output	4.4A @ 14V < 80W	2.4A @ 14V < 50W	1A @ 14V < 20W	0.5A @ 14V < 10W
Adjustable Power	10% - 100%	10% - 100%	10% - 100%	10% - 100%
Weight	1.85 kg	1.65 kg	0.9 kg	0.8 kg
Dimensions L x W x D	160 x 160 x 81	160 x 160 x 81	100 x 160 x 61	100 x 160 x 61
Drilling Dimensions	4 x M4 holes @ 145 x 123mm	4 x M4 holes @ 145 x 123mm	4 x M4 holes @ 145 x 63mm	4 x M4 holes @ 145 x 63mm

All standard PSU's provide current controlled output specifically calibrated for the LED head. The power supplies feature adjustable power, adjustable photocell and telemetry input.

Premium PSU Specifications

In addition to the standard functions, the Premium PSU includes 12v dc power and photocell following contact. See diagram below for connections.

Quick-Fit Installation Instructions:

LED unit Installation:

- 1) Ensure LED unit is installed in a well ventilated area.
- 2) Adjust **horizontal** target area of the LED by adjusting circular mounting bracket.
- 3) Adjust **vertical** target area of the LED by loosening the two side screws on the central bracket before adjusting to the required position.
- 4) To alter the angle of light projection using the Adaptive Illumination feature loosen the top bolt of the lamp by a couple of rotations. Adjust the output angle of the LED units until the required illumination is achieved then securely fasten the top bolt again.
CAUTION: DO NOT FULLY LOOSEN THE ADAPTIVE ILLUMINATION BOLT.
- 5) Retighten all fixings and ensure lamp is securely held in position.
- 6) Do not continually stare at the LED unit from less than 1.5m during operation.
- 7) For RM200, RM100 and RM50 ensure that both LED units are connected to the PSU.
- 8) For best results, set up should be done at night so results can be viewed on a CCTV monitor.

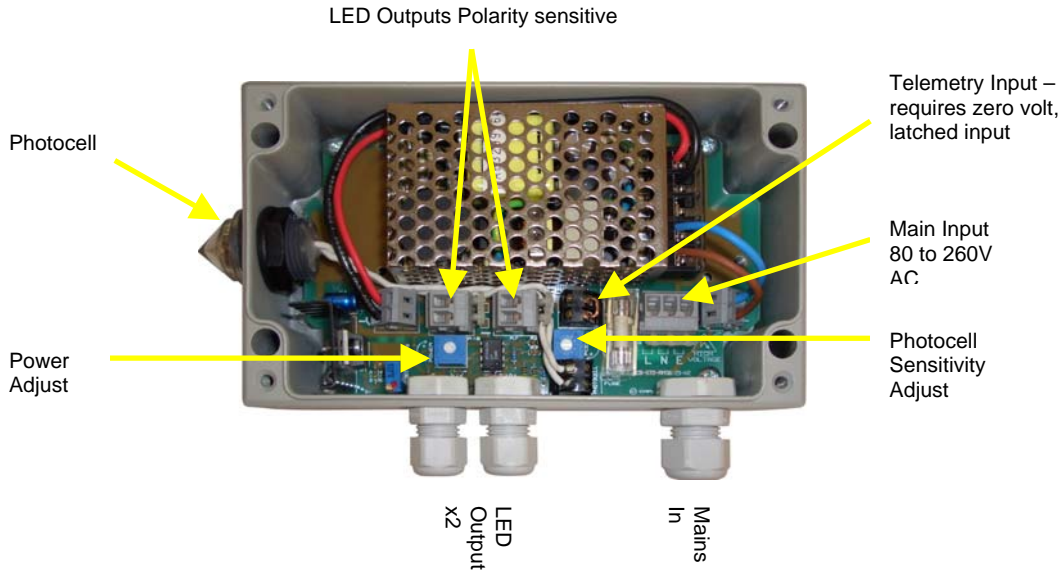
PSU unit Installation:

- 9) Ensure power supply is mounted securely to a flat external surface in a well ventilated area, externally.
- 10) Isolate the mains supply at all times whilst the lid is removed from the PSU.
- 11) Wire mains input and LED outputs as shown below. Check the legends on the PSU.
- 12) **CAUTION:** LED output is polarity sensitive. Black = negative (-ve). Red = positive (+ve).
- 13) **CAUTION:** For RM200, RM100 and RM50 connect **both** LED units before initializing PSU.
- 14) Photocell Control & Telemetry -The PSU is set-up for automatic photocell operation. If you require external telemetry input use the terminals shown on the diagram. The photocell overrides telemetry function so that lamps cannot be operated during the day. Telemetry input should be a zero volt, latched input. If no external telemetry input is required, ensure there is a wire link across terminals.
- 15) Photocell Adjust – The sensitivity of the photocell can be adjusted by the pot shown on the diagram. It is factory set to approximately 35 Lux on, 70 Lux off.
- 16) Power Control – Output power of the LED unit can be controlled by adjusting the pot as shown. Each unit is factory set to maximum power.
- 17) Ensure the power supply enclosure is fully sealed and watertight before operation.

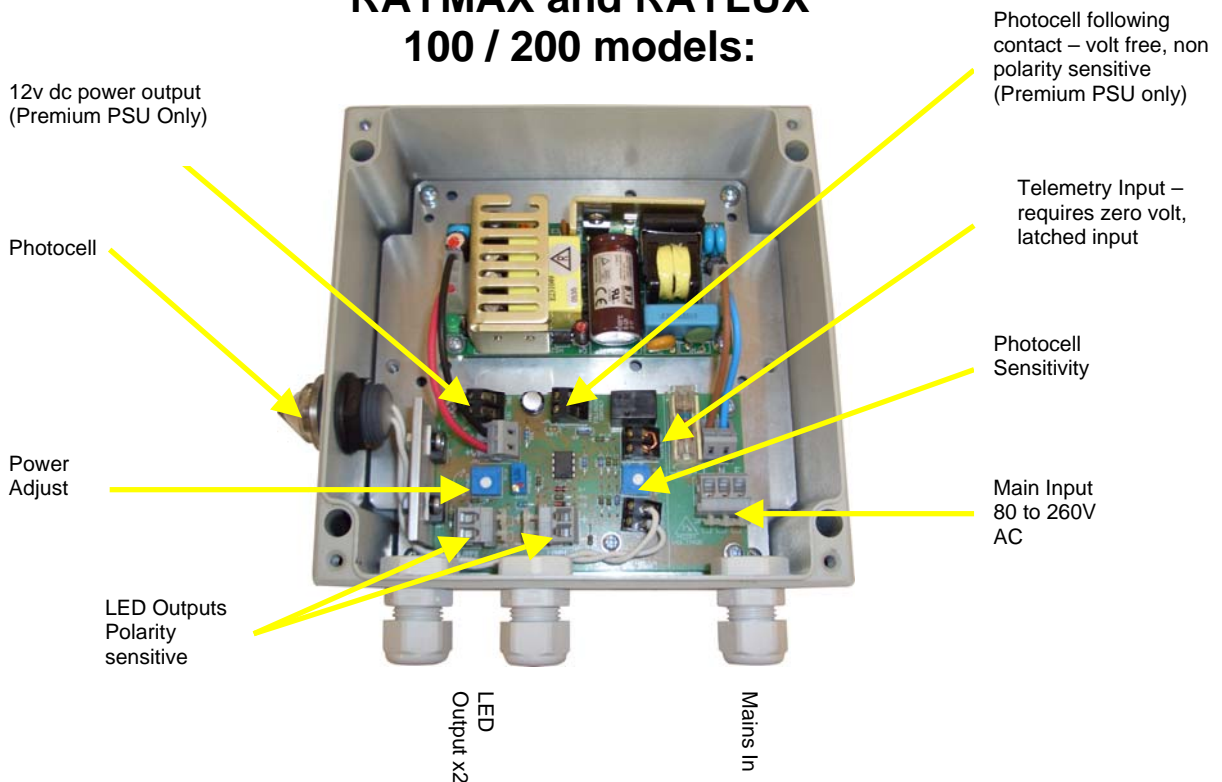
Premium Functions: (Premium Power Supply Only)

- 18) 12v dc output is available to power camera etc. See connection diagram below. This connection is polarity sensitive Black = negative (-ve). Red = positive (+ve).
- 19) Photocell following contact – see connections below. This is a volt free connection, but is not polarity sensitive.

RAYMAX and RAYLUX 25 / 50 models:



RAYMAX and RAYLUX 100 / 200 models:



NB: The RAYMAX and RAYLUX 200 uses a different switch mode than the model shown. The model shown is the RM100 and RL100 PSU