

# PRO SERIES PSU

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The PRO Series PSU is the latest addition to Rayled's range of specialist PSUs, available now as an option for the RAYMAX and RAYLUX series of illuminators. The PRO PSU is designed to ensure that surveillance cameras achieve the highest quality images at night whatever the application. A number of unique features enable installers to provide flexible solutions that can be tailored and expanded through additional plug-in modules to meet the specific requirements of any customer. This is an important step in Rayled's product development path to deliver more intelligent, more flexible, more interactive lighting solutions.

The PRO Series PSU is a modular design comprising the "PowerCore" motherboard together with optional plug-in modules. The "PowerCore" contains all the features of the current PREMIUM PSU with the built-in capability for the addition of intelligent plug-in modules. There are currently two plug-in modules available; the PRO IQ and the PRO Pulse.

## PLUG IN MODULE BOARDS

The PRO Series PSU provides the facility for 'plug in' programmable module boards which provide a variety of unique features and allows for flexible, user defined set-up of the system.

The PRO Series PSU provides all the control features of the current premium power supply *and* provides an easy ready-made platform for upgrade with the optional plug in modules:

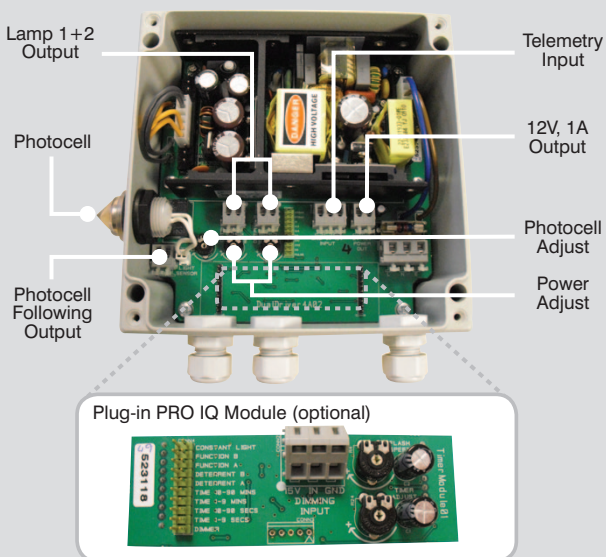
### PRO IQ MODULE

- Eco logic economy setting
- PERMA-light
- Remote Dimming
- Power Boost
- 2 Deterrent settings
- 4 Timer settings
- Ultimate Flexibility

### PULSE MODULE

- Analogue or Digital TTL signal
- Flexible Pulse width setting
- Flexible Pulse height setting
- Optional in-fill pulses
- Compatible with IR or WL
- Auto detects PAL or NTSC cameras

## PRO PSU FEATURES - POWERCORE MOTHERBOARD



### POWERFUL

- Distances up to 300m
- Latest SMT LED Technology
- Inbuilt power boost



### FLEXIBLE

- Adaptive Illumination
- Fully controllable PRO power supply
- ECO.LOGIC lighting on demand



### RELIABLE

- 3 Year Warranty
- Perma-Light
- Vandal Resistant

## PRO IQ MODULE

**THE PRO IQ MODULE IS AN OPTIONAL UPGRADE TO THE PRO PSU UNIT AND OFFERS INCREASED FUNCTIONALITY, ADAPTABILITY AND INTELLIGENCE TO ALL RAYMAX AND RAYLUX ILLUMINATORS**

### eco.LOGiC.

Allows lamp to operate at 50% power during normal operation and boost to 100% power on activation. The time period of boost can be fully adjusted and user defined: 1 sec. to 90 minutes. This feature can significantly reduce the power consumption of any Infra-Red or White-Light system by providing lighting at a lower level during periods of inactivity and boosting power on activation by local PIR/trigger or remotely at the control room to generate maximum image quality.

### PERMA-LIGHT

Controls the power output of lamp over a 5 year period to ensure lighting output stays consistent throughout. The light output of any LED lamp reduces over time as a function of the quality of thermal management and electronic control of the system and will vary significantly between different manufacturers. Rayled utilise state of the art materials and design techniques to maximise the performance and reliability from our systems. The Perma-Light function further enhances the reliability of Rayled illuminators, and compensates for any slight reduction in power output over time, ensuring that the system delivers consistent light levels at all time.

### REMOTE DIMMING

Allows the light output of the illuminator to be adjusted remotely. This feature enables installers or operators to remotely adjust lighting levels to match the exact scene requirement and to alter the level if the scene requirements change. Ideal to make sure the perfect picture can be obtained all the time.

### DETERRENT LIGHT

Different deterrent settings with adjustable flash speeds. Ideal for White-Light applications where the light can be used in normal operating mode – but can also act as a deterrent on local PIR/trigger or remotely from control room. The illuminator pulses on / off and quickly alerts the intruder that they have been detected. Duration of deterrent and frequency of the flash can be adjusted (1 sec. to 90 minutes).

### POWER BOOST

Lamp output can be boosted by up to 50% for short periods then return to normal power. This allows for longer distances to be achieved and also helps to improve picture quality and focussing in marginal operating conditions.

### TIMER CONTROL

4 Different timer settings to turn light on from 1 second to 90 minutes. This function is ideal where the user needs to reduce power consumption to an absolute minimum and only operate lighting for a defined period on activation. It is especially useful where power consumption is key e.g. battery based systems like solar, wind etc. In addition to being available in isolation, the timer functions can also be used to control some of the other features described above including the eco logic setting and deterrent functions.

## PULSE MODULE

**THE NEW PRO PSU WITH PULSE MODULE WILL REPLACE ALL PULSED POWER SUPPLIES CURRENTLY SUPPLIED BY RAYLED**

The Pulse Module allows Rayled illuminators to be set up for any pulsing requirement from a single universal power supply which is compatible with both analogue and digital camera systems. The unit auto detects between PAL and NTSC systems and adjusts the timing of the pulsing accordingly to match the camera settings. In addition the user can select "in-fill" pulses which is essential when using visible wavelengths of light to eliminate the strobe effect when using systems operating at 50hz or less.

The new ProPulse module delivers all the flexibility and control required to meet the requirements of any pulsed application including machine vision, ANPR and other specialist applications.

## CUSTOMER DEVELOPMENTS

Rayled is committed to continually delivering increased functionality and flexibility from its illumination systems. The Pro series power supply, with its modular design and plug-in modules, means that new features can be quickly available to all existing and new users. In addition, the flexible design approach means that if customers and end-users have specific operating requirements not currently available, Rayled can design and deliver bespoke plug-in modules to fit to new or existing installations. The possibility for applications is unlimited.