Infra Red LED Illuminator

The professional range of IR LED Illuminators are designed to offer a flexible answer to meeting your infra red lighting requirements. This dual voltage unit provides illumination over a 40° angle and can be used up to 130 metres. The LAM740 has 15 **Super** High Powered IR LEDs and is a dual powered (12vDC/24vAC) illuminator.

Features

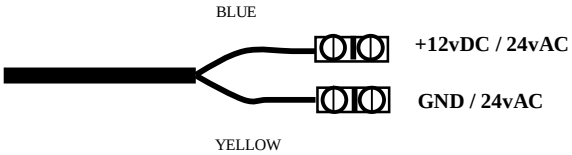
- **Strong metal case IP66 waterproof**
- **15 High Power IR LEDs**
- **Automatically switches on under 10 Lux by CDS**
- **Range of three other models for angle and distance requirements**
- **Dual power 12vDC or 24vAC**
- **Indoor and outdoor use**

Models covered in these instructions
LAM740

Technical Specifications	LAM740
Type	Outdoor
Luminaire	850nm High Power LEDs
Angle	40°
Power Output	15W
Outdoor Distance	130 Metres (Outdoor)
Control	CDS controls switch on under 10 Lux
Power Supply	12vDC / 24vAC
Current Consumption	DC 1.2A / AC 950 mA
Dimensions	157mm x 228mm
Weight	2700g
Storage Temperature	-30 ~ +60°
Operating Temperature	-10 ~ +40°

Installation Instructions

This illuminator is dual voltage. Connect as per the following diagram:



Due to the high current draw of the 15 Super High Power LEDs only use a power supply with the following minimum rating: 24vAC 1.5A or 12vDC 1.8A.

We suggest using the POW600 for 24vAC operation or the POW506 for 12vDC operation.

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As with any light source the wider the beam the shorter the effective range of the illumination so to cover different installation requirements we have produced a range of different angles, narrow 25°, standard 40° and 45°, and wide 60°. Obviously if you are trying to look at a gateway use the narrow beam model but if you are illuminating a wider area at a shorter distance, use the wide beam model. If you need to illuminate both areas then you may need to buy both or several models.

The 850nm LEDs are matched to most CCTV IR cameras so they give good results but they do emit a very faint red glow to the naked eye. If you need a more covert installation then you should look at the TrueBlack range of low-profile lamps.

Remember that infra red light is a polarised light and is similar to a torch beam. The further away the light reaches the weaker the light becomes. If you double the distance you will only get one quarter of the light illumination. This is called the "Inverse Square Rule".

It is important that when you want to use IR lighting with a CCTV camera that you check the camera is sensitive to IR light. CCTV cameras often have an infra red filter placed across the CCD so that any IR light produced in bright sunshine does not incorrectly colour the picture. On better quality cameras this filter is fitted as a mechanical day/night filter and when lux levels reduce at night, the filter is physically moved away from the CCD to allow as much IR light as possible for night vision. The use of these IR illuminators then provides the additional IR light required for night-time images.

As these illuminators will generate some heat, it is advisable not to place the lamps near flammable materials. Also avoid placing the units where the glass front can be touched as this could result in skin burns.

To test this illuminator you will need to cover the CDS that automatically switches the unit on when light is reduced below 10 lux.