

# rayMAX 50 PoE and rayLUX 50 PoE

## High Power PoE illuminators installation guide

This installation guide provides instructions for installing the RAYMAX 50 & RAYLUX 50 High Power PoE series illuminators.

### Installation Steps

1. Mount Illuminator
2. Feed cable into connector
3. Connect cable to waterproof connector
4. Connect to high power PoE switch or hub

### Set Up Steps

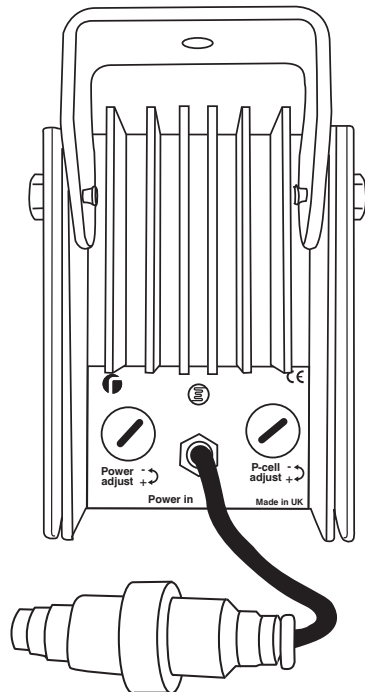
1. Optional night set-up for optimum image performance
2. Adjust vertical angle
3. Tighten all fixings

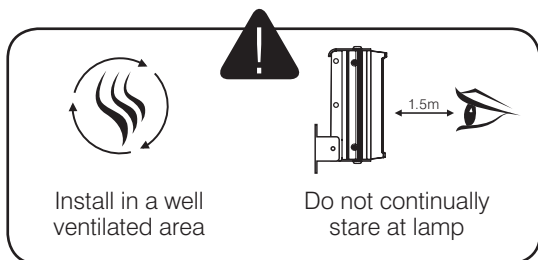
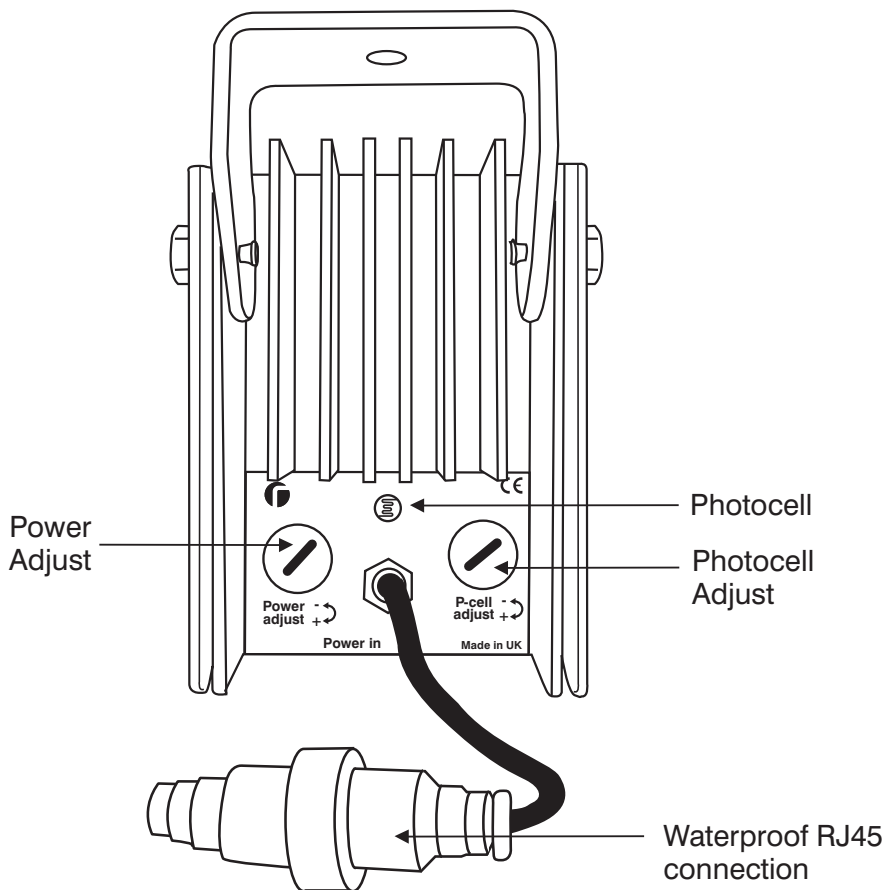
### Package Contents

1. High power PoE illuminator including waterproof connector

### Overview

RAYMAX 50 / RAYLUX 50  
HP PoE illuminator  
(back of illuminator)

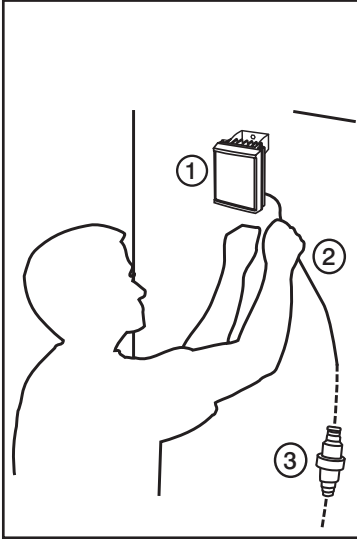




The Raymax and Raylux 50 PoE illuminators use the IEEE802.3af standard detection method and require an injector that can deliver up to 25W.

Specifications subject to change without notice. Installation to be carried out by suitable trained and qualified personnel.

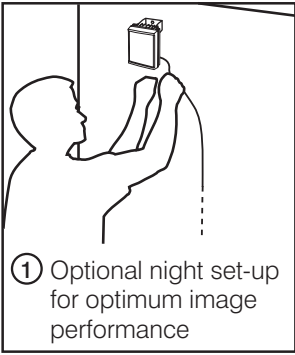
# Installation



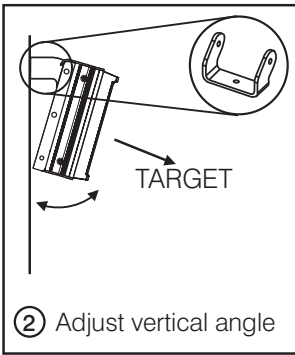
INTERNAL AND EXTERNAL

- 1 Mount illuminator
- 2 Feed CAT5 cable into waterproof connector
- 3 Unscrew waterproof connector. Feed cable through connector and select the appropriate rubber bung for the outside cable diameter. Terminate cable with an RJ45 connector and fit into the RJ45 socket. Fit the two waterproof connector ends together and tighten. Finally tighten the two end gland nuts to ensure that it is waterproof
- 4 Connect to a 802-3AF protocol standard high power PoE injector switch or hub.

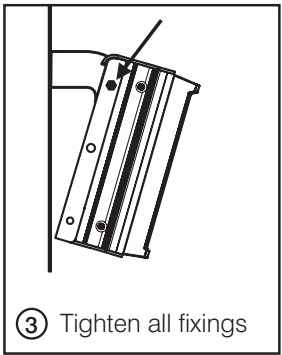
## Set Up



1 Optional night set-up for optimum image performance



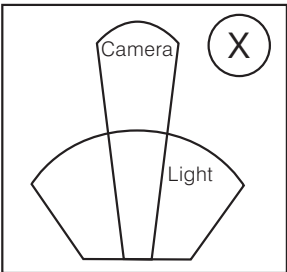
2 Adjust vertical angle



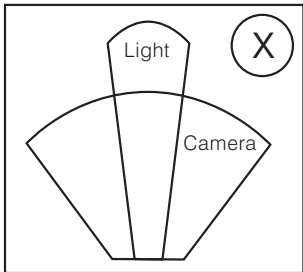
3 Tighten all fixings

Use wall bracket if you require horizontal adjustment.

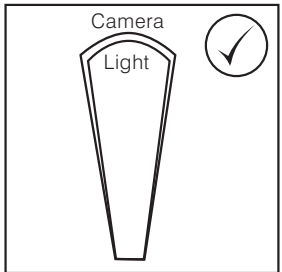
## Match illumination to camera field of view



Reduces performance

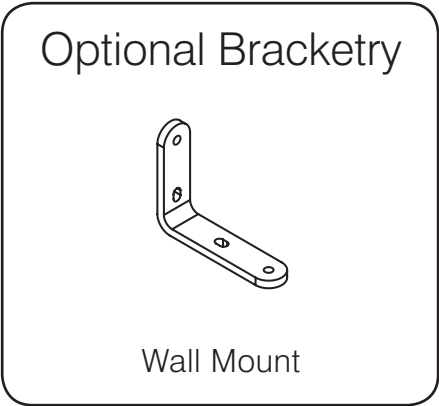
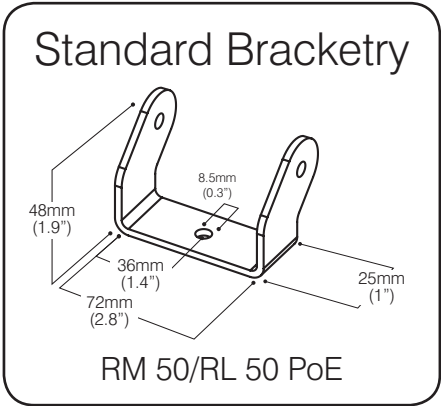


May cause hot spots



Best performance

# Technical Drawings (Not to scale)



## Specifications

INFRA-RED AND WHITE-LIGHT Series

Input	Output	PoE	Photocell	Adjustable Power	Weight	Dimensions L x W x D
PoE	up to 25W	Uses IEEE802.3af standard detection method. CAT5 Cable	Integrated (adjustable sensitivity)	10% - 100%	1kg (2.2lbs)	135 x 100 x 63mm 5.25" x 4" x 2.5" approx

## Command and Control

### Integrated Power Supply Features

- Adjustable photocell
- Adjustable power

# Trouble Shooting

## Step 1: Basics

- Ensure power adjust is turned to the maximum level for troubleshooting.
- Ensure Photocell operates as required and turns lamp on and off when covered, if necessary adjust the photocell sensitivity.
- When the light is on, a dull red glow should be visible from your Infra-Red illuminator, and a bright white beam should be visible from your White-Light illuminator.
- Confirm that the PoE injector, hub or switch unit is fully functioning and is suitably rated to provide required power and suitably rated to protocol standard 802-3af to provide power.

NB: Refer to manufacturer's guide

- Ensure you have wired RJ45 connectors correctly at both ends.
- Check that the RJ45 waterproof connection is sound and fully weather protected.
- Check that the cable is fully intact, and not broken or split.

## Step 2: Set-up Camera, lens and illumination

Check alignment of lamp

Check camera lens – fully open at night & set correctly.

Check model number to Raytec performance specification to ensure required distance is achievable.

## Step 3: Call Raytec for further assistance

Note down:

- Model and serial number of illuminator
- Camera make and model
- Lens make and model

If the Raytec lamp is still not delivering the required performance, please contact us for further assistance: tel +44 (0) 1670 520055.



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