

FUSION

Low Voltage Lighting





FUSION

Adaptive Illumination™
versions now available

WHAT IS FUSION?

- Fusion is a range of low voltage Infra-Red and White-Light Illuminators designed to improve the performance of any camera system at night. It is easy to install, requires zero maintenance and provides ultra long life.
- Fusion uses the very latest PLATINUM LED's fitted with miniature optics to deliver World leading power and performance. Each unit is fitted with 'Command and Control'™ technology to give the user the ability to get the best picture - every time!
- Fusion combines Rayled's lighting and power control technologies into a single unit requiring only a direct 12-24V AC/DC input, no specialist PSU is required. Each unit is fitted with Active LED Life Control™ to carefully control LED output, delivering a projected working life of 10 years.





AVAILABLE IN IR AND WHITE-LIGHT

IR OFF



IR ON



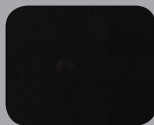
IR OFF



IR ON



WL OFF



WL ON



WL OFF



WL ON



DESIGN PHILOSOPHY

Rayled's engineers were briefed to deliver a Powerful, Reliable and Flexible range of low voltage IR and WL illuminators using the very latest technologies in SMT diodes, optics and light management. The target was a World Class product which showcased the latest developments in LED lighting. The project became known as FUSION, an indication that Rayled's lighting and PSU technologies were to be combined into a single unit.

- Low Voltage for an easy, cost effective and safe installation.
- State of the art LED illumination using the latest diodes and optical techniques to deliver the best possible images at night.
- A full product family with both Infra-Red and White-Light options means there is a FUSION model suitable for any installation.



Command
and Control™
technology

10, 30, 50 or
120 degree
variations

Distances
up to 150m
(492ft)

Vandal
Resistant

Quick start
on activation

Low Voltage
Input - 12/24V
AC/DC

Advanced
PLATINUM
SMT LED
Technology

Active LED
Life Control

Even Output
Illumination

Ultra Low
Running
Costs & Zero
Maintenance

5 YEAR
WARRANTY

5 YEAR WARRANTY All Rayled CCTV illuminators are provided with a 5 year warranty, unmatched anywhere in the CCTV lighting industry. Rayled illuminators provide guaranteed long life!



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versions now available

TECHNOLOGY

PLATINUM ADVANCED SMT LED TECHNOLOGY

Cutting-edge PLATINUM SMT LED technology, light intensification miniature optics (LIMO) and an enhanced Cool Running thermal management system

ACTIVE LED LIFE CONTROL

Cutting edge materials science techniques to improve thermal efficiency and ensure continuity of LED power. The system draws heat away from the LEDs, shielding them from abnormal stress

COMMAND AND CONTROL™ TECHNOLOGY

Photocell, photocell adjust, power adjust, telemetry control and low voltage power input integrated directly onto every FUSION illuminator no specialist external PSU needed

HD READY

Advanced LED and LIMO Optics deliver more power on scene to achieve full resolution pictures from any camera system. More power, better signal to noise performance

VANDAL RESISTANT

Polycarbonate lens design protects FUSION products from attack whilst maintaining excellent light transmission

EVEN ILLUMINATION

High Performance individual LED Optics and holographic diffuser produce an incredibly even light distribution

BENEFITS:

- **More Power**
- **Greater Distances**

BENEFITS:

- **World leading reliability**
- **Consistently high illumination levels**

BENEFITS:

- **Easy installation**
- **Flexible Set-Up**
- **Safe – low voltage 12-24V installation**

BENEFITS:

- **Allows HD cameras to produce perfect night-time pictures**
- **Improves picture quality from all cameras**

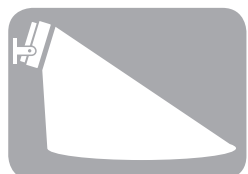
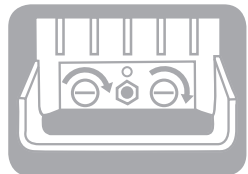
BENEFITS:

- **Designed for the toughest environments**

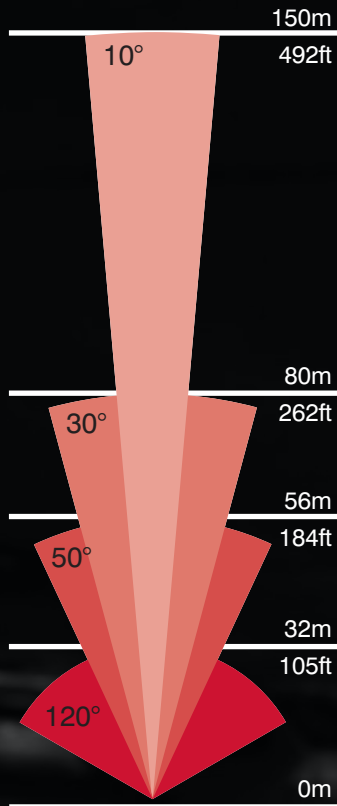
BENEFITS:

- **Even light distribution**
- **Better picture quality**

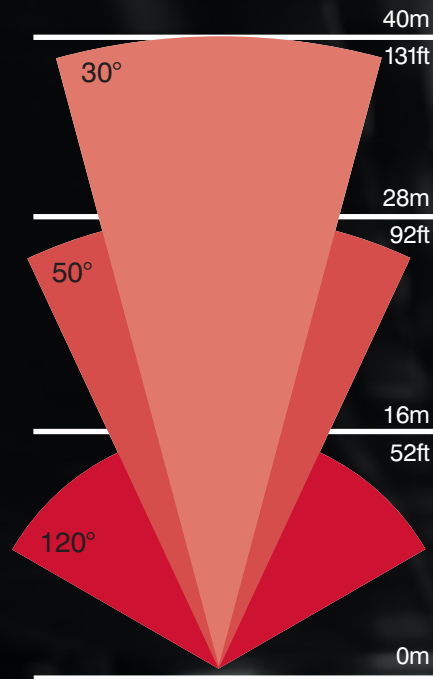
**PLATINUM[®]
INSIDE**



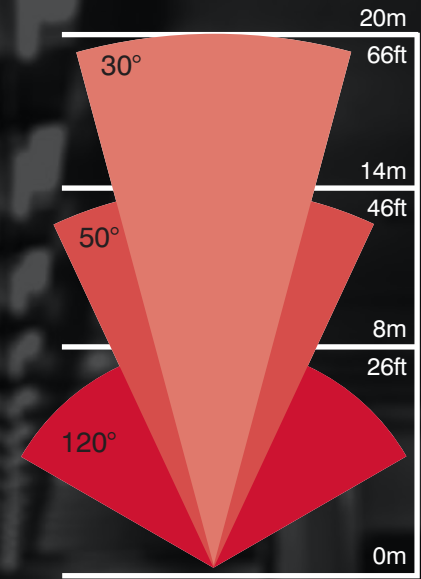
INFRA-RED ANGLES + DISTANCES



RAYMAX 100 FUSION



RAYMAX 50 FUSION



RAYMAX 25 FUSION

APPLICATIONS

POWER PLANTS



CAR PARK



MILITARY BASE



AIRPORT



INDUSTRIAL PARK



PORTS



IR SPECIFICATIONS

Max Distance:	
RM100 FUSION	up to 150m (492ft)
RM50 FUSION	up to 40m (131ft)
RM25 FUSION	up to 20m (66ft)
Angle:	10, 30, 50 or 120 degrees
Optics:	SMT LED's with micro-lensing
Consumption:	Model Dependent 12, 25 or 35W
Input Voltage:	12/24V AC/DC
Weight:	
RM100 FUSION	1.4kg (3.1lbs)
RM50 FUSION	1.0kg (2.2lbs)
RM25 FUSION	0.5kg (1.1lbs)
Environmental:	IP66
Temp Range:	-50 to +50°C (-58 to 122°F)
Cable Length:	2.5m

Colour:	Black
Wavelength:	850 or 940nm
Dimensions:	
RM100 FUSION	180 x 135 x 65mm 7" x 5.25" x 2.5" approx
RM50 FUSION	135 x 100 x 63mm 5.25" x 4" x 2.5" approx
RM25 FUSION	75 x 100 x 54mm 3" x 4" x 2" approx

BRACKETRY

U Bracket included

INTEGRATED COMMAND AND CONTROL™ TECHNOLOGY

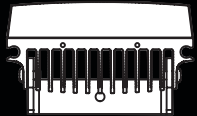
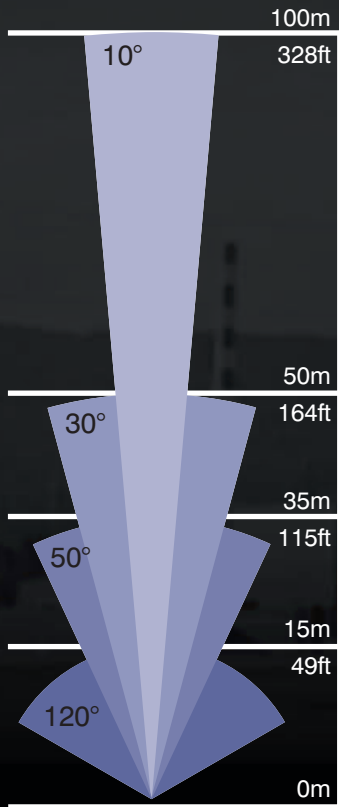
- Inbuilt Photocell for automatic on/off operation
- Photocell level adjust
- Power adjust from 10-100%

PART CODES & DISTANCES

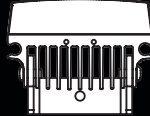
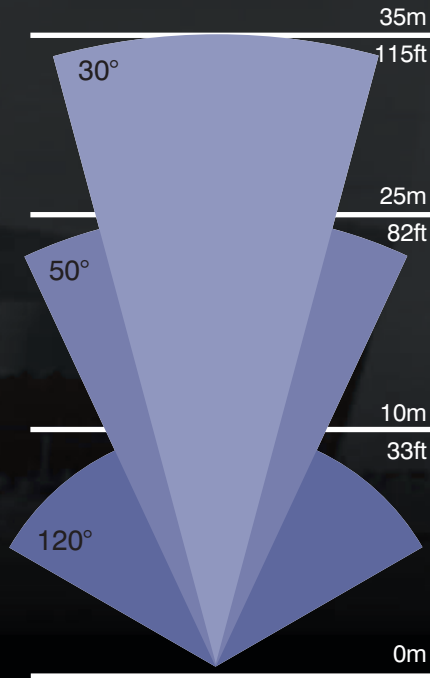
RM100-F-10	RAYMAX 100 Fusion, 10°	850nm + Integrated PSU	150m (492ft)
RM100-F-30	RAYMAX 100 Fusion, 30°	850nm + Integrated PSU	80m (262ft)
RM100-F-50	RAYMAX 100 Fusion, 50°	850nm + Integrated PSU	56m (184ft)
RM100-F-120	RAYMAX 100 Fusion, 120°	850nm + Integrated PSU	32m (105ft)
RM50-F-30	RAYMAX 50 Fusion, 30°	850nm + Integrated PSU	40m (131ft)
RM50-F-50	RAYMAX 50 Fusion, 50°	850nm + Integrated PSU	28m (92ft)
RM50-F-120	RAYMAX 50 Fusion, 120°	850nm + Integrated PSU	16m (52ft)
RM25-F-30	RAYMAX 25 Fusion, 30°	850nm + Integrated PSU	20m (66ft)
RM25-F-50	RAYMAX 25 Fusion, 50°	850nm + Integrated PSU	14m (46ft)
RM25-F-120	RAYMAX 25 Fusion, 120°	850nm + Integrated PSU	8m (26ft)

940nm options also available. Contact Rayled for details.

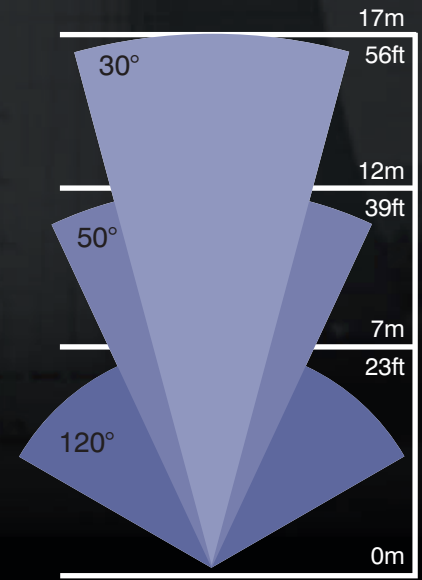
WHITE-LIGHT ANGLES + DISTANCES



RAYLUX 100 FUSION



RAYLUX 50 FUSION



RAYLUX 25 FUSION

APPLICATIONS

BANKING



HOTELS



DUMPING



**HIGH END
RESIDENTIAL**



HOLDING BAYS



GRAFFITI



WL SPECIFICATIONS

Max Distance:	
RL100 FUSION	up to 100m (328ft)
RL50 FUSION	up to 35m (115ft)
RL25 FUSION	up to 17m (56ft)
Angle:	10, 30, 50 or 120 degrees
Optics:	SMT LED's with micro-lensing
Consumption:	Model Dependent 12, 25 or 35W
Input Voltage:	12/24V AC/DC
Weight:	
RL100 FUSION	1.4kg (3.1lbs)
RL50 FUSION	1.0kg (2.2lbs)
RL25 FUSION	0.5kg (1.1lbs)
Environmental:	IP66
Temp Range:	-50 to +50°C (-58 to 122°F)
Cable Length:	2.5m

Colour:	Silver
Wavelength:	White-Light
Dimensions:	
RL100 FUSION	180 x 135 x 65mm 7" x 5.25" x 2.5" approx
RL50 FUSION	135 x 100 x 63mm 5.25" x 4" x 2.5" approx
RL25 FUSION	75 x 100 x 54mm 3" x 4" x 2" approx

BRACKETRY

U Bracket included

INTEGRATED COMMAND AND CONTROL™ TECHNOLOGY

- Inbuilt Photocell for automatic on/off operation
- Photocell level adjust
- Power adjust from 10-100%

PART CODES & DISTANCES

RL100-F-10	RAYLUX 100 Fusion, 10°	White-Light + Integrated PSU	100m (328ft)
RL100-F-30	RAYLUX 100 Fusion, 30°	White-Light + Integrated PSU	50m (164ft)
RL100-F-50	RAYLUX 100 Fusion, 50°	White-Light + Integrated PSU	35m (115ft)
RL100-F-120	RAYLUX 100 Fusion, 120°	White-Light + Integrated PSU	15m (49ft)
RL50-F-30	RAYLUX 50 Fusion, 30°	White-Light + Integrated PSU	35m (115ft)
RL50-F-50	RAYLUX 50 Fusion, 50°	White-Light + Integrated PSU	25m (82ft)
RL50-F-120	RAYLUX 50 Fusion, 120°	White-Light + Integrated PSU	10m (33ft)
RL25-F-30	RAYLUX 25 Fusion, 30°	White-Light + Integrated PSU	17m (56ft)
RL25-F-50	RAYLUX 25 Fusion, 50°	White-Light + Integrated PSU	12m (39ft)
RL25-F-120	RAYLUX 25 Fusion, 120°	White-Light + Integrated PSU	7m (23ft)

Illumination for any CCTV application



**INFRA-RED
LED**



**WHITE-LIGHT
LED**



**HYBRID IR &
WHITE-LIGHT**