

Short Range - Ultra Long Life

Micro LED

Night-time illumination for CCTV

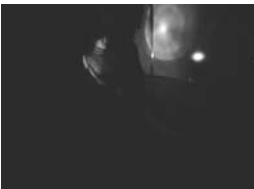


The MicroLED is a versatile, effective and economical Infra-Red illuminator which provides night-time, covert lighting control for short range, indoor and outdoor surveillance.

The compact cube is designed to be located in the dark areas of a surveillance site, to enhance night-time performance of existing and new cameras.

The discreet and aesthetic design ensures that MicroLED is ideal for all short-range Infra-Red requirements.

With 1/4 mounts located at its bottom and rear, the MicroLED can be installed to ceilings and walls, discreetly enhancing the night-time lighting for covert surveillance.



Above: The difference is like night versus day. Left, a dark scene is illuminated with only a torch, on the right, the totally dark scene is revealed in full using MicroLED.

For achievable illumination distances please refer to the Matrix



**MicroLED
Ultra Long Life
with photocell**

Solid State
>5 years life

Semi-covert 850nm
& covert 940nm

Low power consumption
Low running costs

Adjustable power settings to
match scene requirements

Small, attractive,
robust construction

Low Voltage
12VAC or 24VDC

Rated for internal &
external applications

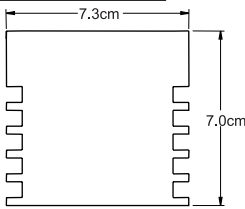
Simple safe installation

Extensive mounting options

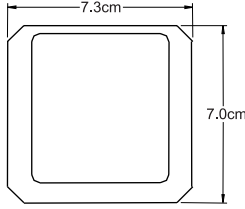
Derwent provide specialised technical advice and support for your night-time illumination CCTV projects and can arrange on-site demonstrations of our products

MicroLED (Technical)

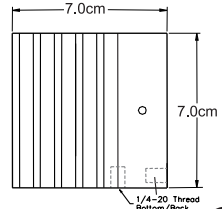
Micro **LED** Short Range - Ultra Long Life



TOP VIEW



FRONT VIEW



SIDE VIEW



Specification

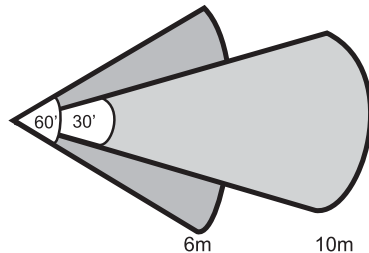
LED Array	High performance 850nm or 950nm
LED Beam Angles	60° (W), 30° (M)
Number of LEDs	42
Output Control	Variable Resistor
Photocell	Automatic ON/OFF adjustable
Operational Range	-20° C to +50° C (-4° F to 122° F)
Humidity Range	Up to 85% relative humidity
Voltage Regulator protection	Included for electronic
Input	12 VDC or 24VAC
Consumption	700 MA (Max at 12 VDC)
Enclosure:	
Housing	Aluminium
Front Window	Optical Acrylic
Back Cover	Anodized Aluminum Plate
Gasketed	
Mount	1/4 Whit thread at bottom and rear
U-Bracket	Supplied as standard
Dimensions	Width: 73mm Depth: 70mm Height: 70mm
Weight	454g

Mains to low voltage PSU

MicroLED requires an external mains to low voltage power supply. Derwent manufacture a dedicated power supply for use with the MicroLED, specify PSU230/24

Beam Patterns

Medium – Angle 30° – Range 10m
Wide – Angle 60° – Range 6m



Distances above are based on 850nm versions

Performance Notes:

Use good Infra-Red sensitive cameras for better results.

850nm models emit a slight red visible glow.

940nm models are not visible, but require best Infra-Red sensitive cameras.

NOTE: Range, video signal, signal/noise ratio and field of view will depend on the sensitivity and spectral response of the camera/lens combination

Contact Derwent for advise on your proposed scheme

Ordering information

Specify as separate items:
EX12LED.850M 850nm
EX12LED.850W 850nm
EX12LED.940M 940nm
EX12LED.940W 940nm

(includes U-Bracket)

Order:
30° medium beam
60° wide beam
30° medium beam
60° wide beam

Agent/Distributor

Europe:
Derwent Systems Limited
Derwent House, Colbourne Crescent
Nelson Park Industrial Estate
Cramlington, Northumberland
NE23 1WB
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The performance figures given are typical. In view of the company policy of continuous product development these specifications may be changed without notice.