



ENFIS UNO Plus Light Engine

Rich mono spot source and colour/CCT changing with 36 high-power LEDs

Features & Benefits

Two Formats

Plug & Play

Just plug in and go straight from the box!

Luminaire integration kit

Array on connectorized PCB with mounting holes.

Separately housed driver module

Superior colour mixing with dense packaging and interleaving of colours

4.3 Billion colours

Rich colours and wide dynamic range

4 x 256 step dimming

Small Size

Ideal for moving spot lights

Ideal for colour/CCT-changeable drop in replacement spot source

Full colour/colour temperature control and monitoring (optional)

50W: High power useable light from a 1cm² array

DMX512 compatible

Smart thermal protection system

Life-long 100% Lumen maintenance (optional)

System 3-year warranty



Applications & Markets

Architectural lighting

- Exterior buried spotlights
- Exterior floodlights
- Exterior/interior wall-washing

Interior colour/CCT-variable lighting

Entertainment lighting

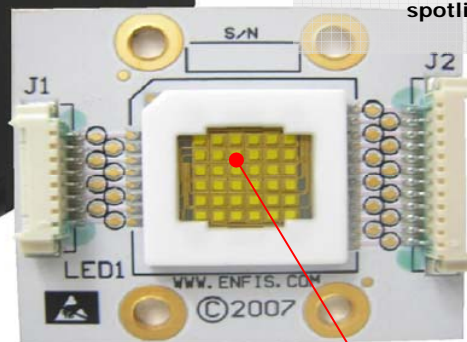
- Club/bar lighting
- Theatre spot gel replacement
- Moving spots

Fibre optic lighting

Colour/CCT-changing illuminator light sources

Retail lighting

Colour/CCT-variable spotlights



The 1cm² Array
36 high-power LEDs

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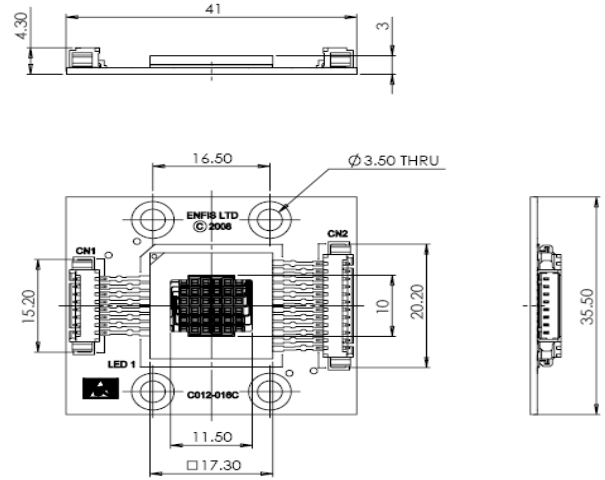


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Technical Specification

Electro-Optical Characteristics

| Colour | Peak Wavelength (nm) | Typ. Light Output (mW) | Typ. Light Output (lm) | Array Electrical Power (W) |
|--|----------------------|------------------------|------------------------|----------------------------|
| Violet | 405 | 6550 | - | 50 |
| Blue | 465 | 6900 | 420 | 50 |
| Green | 520 | 2800 | 1250 | 50 |
| Amber | 595 | 1950 | 900 | 50 |
| Red | 630 | 5000 | 900 | 50 |
| NIR | 870 | 5000 | - | 50 |
| Neutral White | 3900-4600K | - | 1400 | 50 |
| RGBA | R | 1350 | 250 | 50 (12.5W/Channel) |
| | G | 850 | 350 | |
| | B | 1800 | 100 | |
| | A | 570 | 270 | |
| RGBW | R | 1350 | 250 | 50 (12.5W/Channel) |
| | G | 850 | 350 | |
| | B | 1800 | 100 | |
| | W | - | 350 | |
| Hi-Cri | R/A | 1000 | 260 | 50 (12.5W/Channel) |
| | G | 850 | 350 | |
| | B | 1800 | 100 | |
| | W | - | 350 | |
| Please contact Enfis Ltd for further information | | | | |



Electronics: Technical Specification

| | |
|---------------------------|----------------|
| Operating temperature | -10°C to +45°C |
| Storage temperature | -20°C to +85°C |
| Typical Driver Efficiency | >90% |
| Input To Driver | |
| Input voltage | 48V DC <3A |

The results above are based upon a thermal management system with <math><0.1\text{C/W}</math> thermal resistance
Ambient temperature = 25°C

LED Driver PCB

Efficient LED driver based on switch mode technology
Temperature monitoring and control
USB/Serial PC interface

Connectivity

TTL interface with USB convertor (USB connector head provided)

Thermal Management

The output with the integration kit will be depending on the efficiency of user's thermal management system

Handling LED Array

Contact with the encapsulation on the surface of the LED array must be avoided to prevent damage. Do not apply pressure to the encapsulation or allow it to come into contact with sharp objects. During operation the encapsulation will be hot and contact should be avoided.

Static Electricity

Care must be taken when handling, these products are sensitive to static electricity .
Observe static handling precautions.



Cleaning

Avoid touching the LED array surface.
To clean—BLOW surface with either dry air or nitrogen gas

Eye Safety Precautions

The light output of the products may cause injuries to human eyes in circumstances where the products are viewed directly with unshielded eyes for more than a few seconds.

Please refer to IEC 60825-1:2001 for further information



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