



ENFIS UNO PLUS RGB LIGHT ENGINE

Rich RGBA spot-source colour/CCT changing with 36 high-power LEDs in just 1cm²

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
 - Separate housed driver module
- Superior colour mixing with dense packaging and interleaving of colours
- **4.3 Billion colours**
 - Rich colours and wide dynamic range via RGBA mixing. 4 x256 step dimming
- **Small size**
 - Ideal for moving spot lights
 - Ideal for colour/ECT - changeable drop in replacement spot source
- Full colour/colour temperature control and monitoring
- **50W: High-power 'useable' light from a 1cm² array**
- **DMX512 compatible**
- **Smart thermal protection system**
- **Optional life-long 100% Lumen maintenance**
- **System 3-year warranty**

Applications & Markets

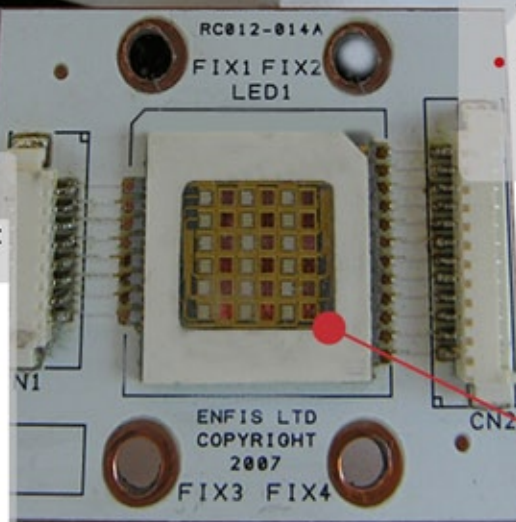
- **Entertainment lighting**
 - Club/bar lighting
 - Theatre spot gel replacement
 - Moving spots
- **Architectural lighting**
 - Exterior buried spotlights
 - Exterior floodlights
 - Exterior/interior wall-washing
 - Interior colour/CCT-variable lighting
- **Retail lighting**
 - Colour/CCT-variable spotlights
 - Display lighting
- **Fibre optic lighting**
 - Colour/CCT-changing illuminator light sources



Outline Specification

Wavelength		Typical Light Output (Lumens)
630nm		360
520nm		335
465nm		130
595nm		270

Input: 48V DC < 2A



The 1cm x 1cm Array:
36 high-power LEDs
mixing RGBA

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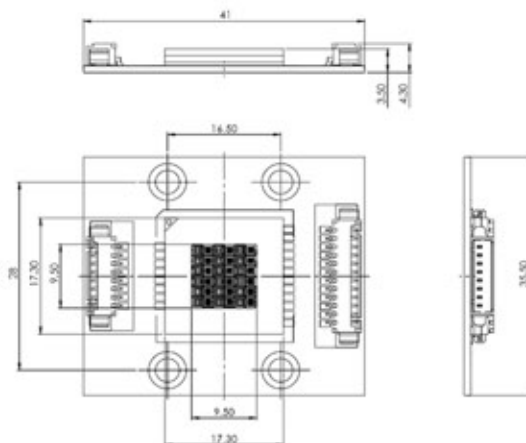
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Technical Specification

Electro-Optical Characteristics

Light output power

Channel	Peak Wavelength	Typ Light Output (mW)	Typ Light Output (Lumens)	Total Electrical Power
Red	630nm	1870	360	18
Green	520nm	800	335	19
Blue	465nm	2180	130	20
Amber	595nm	550	270	17
RGBA	3500°K	-	600	30
RGBA	6500°K	-	600	24



Technical Specification

Operating Temperature -10°C - +45°C
Storage Temperature -20°C - +85°C

Input

Input Voltage 48V DC 2A

Note: Output with integration kit will be depending on efficiency of user's thermal management system

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

Composite metal heatsink with integrated low noise DC fan
Low thermal resistance <2 C/W
Compact size and low weight

Handling LED Array

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

Specifications contained in this document are for guidance purposes and subject to change at the discretion of Enfis

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