

ENFIS UNO PLUS LIGHT ENGINE

Electro-Optical Characteristics

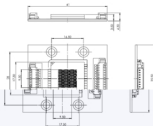
Light output power

Channel	Peak Wavelength (nm)	Typ Light Output (mW)	Typ Light Output (Lumens)	Total Electrical Power
UV(A)	375	790	-	50
Violet	405	5500	-	50
Blue	465	5500	290	50
Green	520	2250	1000	50
Amber	595	1500	670	50
Red	630	4000	660	50
NIR	870	3000	-	50
White	4000-4500K	-	1200	50
RGBA	-	-	750	50
RGBW	-	-	880	50
Hi-CRI	-	-	880	50

Ambient temperature = 25°C

Array temperature = 40°C

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



Technical Specification

Operating Temperature -10°C - +45°C

Storage Temperature -20°C - +85°C

Input

Input Voltage 48V DC 2A

LED Driver PCB

Efficient LED driver based on switch mode technology

Temperature monitoring and control

USB/Serial PC interface

Connectivity

TTL interface with USB converter (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

ENFIS LIMITED
TECHNIUM 2, KING'S ROAD
SWANSEA WATERFRONT
SWANSEA SA1 8PJ UK

TEL +44 (0)1792 485660

FAX +44 (0)1792 485537

WILSON JACOBI & CO. PLUS Light Engine Rev. 1, May. 08

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ENFIS UNO PLUS 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

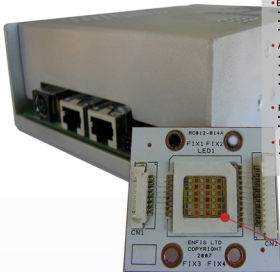
- Smart thermal protection system

- 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



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

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WWW.ENFIS.COM

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