



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

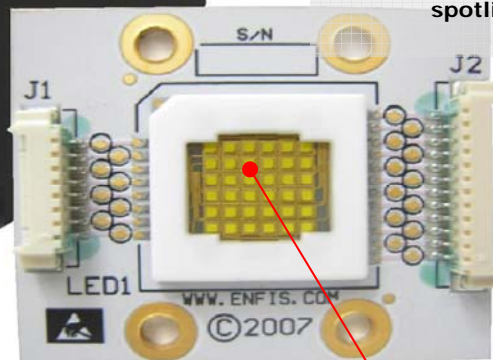
Moving spots

Fibre optic lighting

Colour/CCT-changing illuminator light sources

Retail lighting

Colour/CCT-variable spotlights



The 1cm² Array
36 high-power LEDs

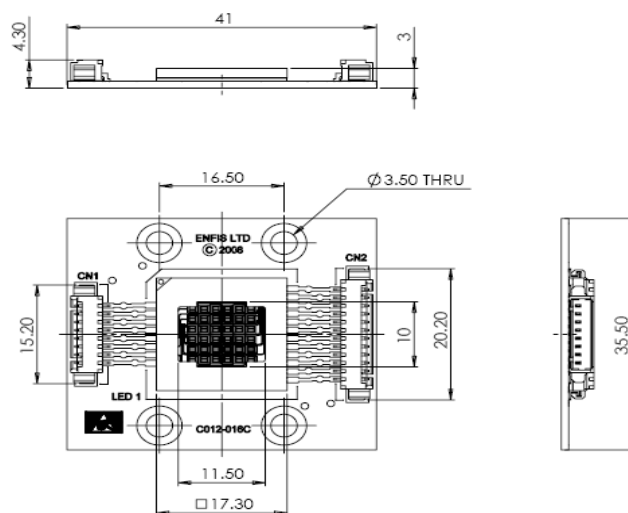


ENFIS UNO Plus Light Engine

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 <0.1C/W 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

