ENFIS QUATTRO Mini Air Cooled Light Engine

Rich mono spot source and colour/CCT changing with 144 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

Full colour / colour temperature control and monitoring

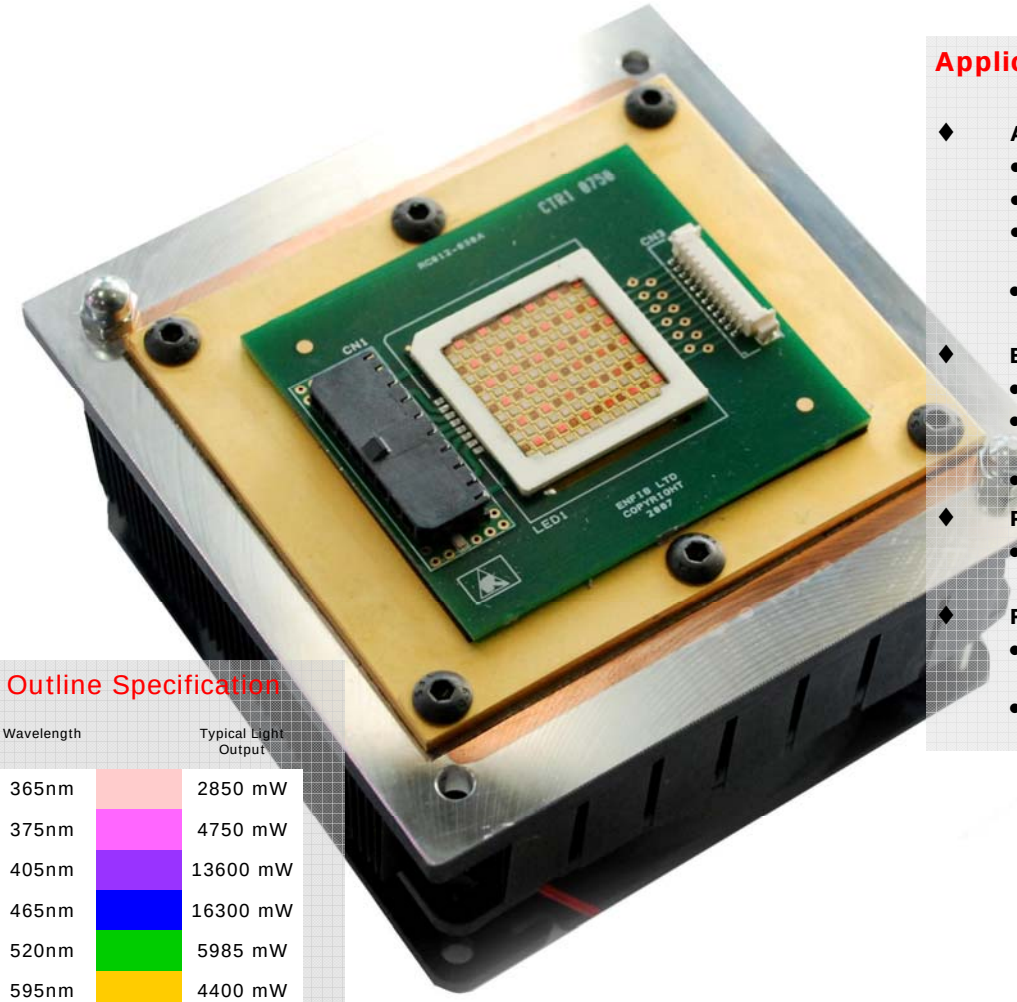
140W: High Power intense light from a 4cm^2 array

DMX512 compatible

Smart thermal protection system

Life-long 100% Lumen maintenance

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
  - Display lighting

Outline Specification

Wavelength	Typical Light Output
365nm	2850 mW
375nm	4750 mW
405nm	13600 mW
465nm	16300 mW
520nm	5985 mW
595nm	4400 mW
630nm	13170 mW
870nm	11200 mW
4250°K	3465 llm
RGBA	2385 lm
RGBW	2575 lm
Hi-Cri	2675 lm

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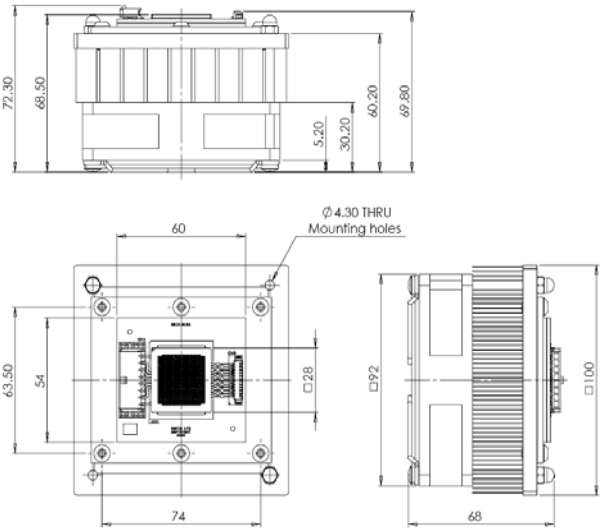
Technical Specification

Electro-Optical Characteristics

Colour	Peak Wavelength (nm)	Typ. Light Output (mW)	Typ. Light Output (lm)	Total Electrical Power (W)
SUVA	365	2850	-	100
UVA	375	4750	-	100
Violet	405	13600	-	140
Blue	465	16630	1005	140
Green	520	5985	2660	140
Amber	595	4400	2085	140
Red	630	13170	2080	140
NIR	870	11200	-	140
Neutral White	3900-4600K	-	3465	140
RGBA	-	-	2385	140
RGBW	-	-	2575	140
Hi Cri	-	-	2675	140
Please contact Enfis Ltd for further information				

Ambient temperature = 25°C



Electronics:
Technical Specification

Operating temperature	-10ºC to +45ºC
Storage temperature	-20ºC to +85ºC

Input To Driver

Input voltage	48V DC <5A

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 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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