



ENFIS QUATTRO LIGHT ENGINE

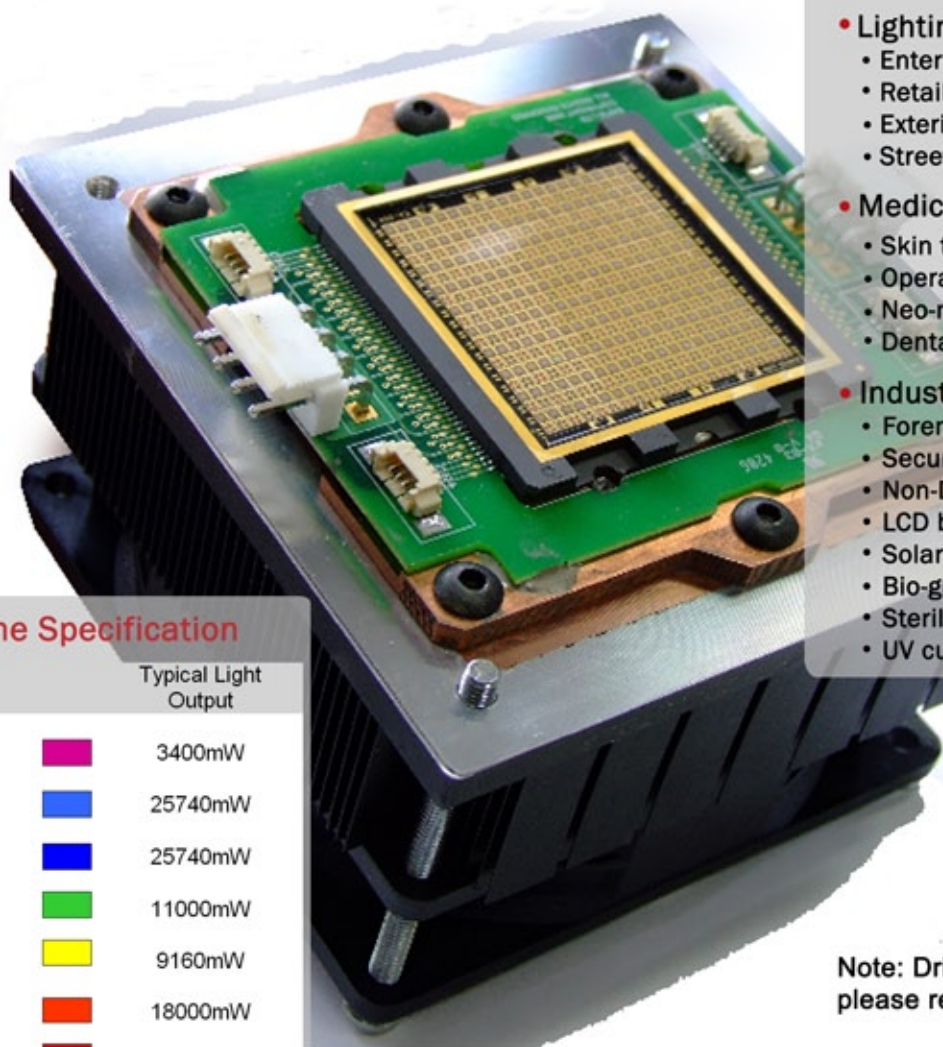
Smart, efficient, Ultra-Bright LED array and driver/controller

Features & Benefits

- Two Formats:
 - Plug and Play
 - Just plug in and go straight from the box!
 - Luminaire integration kit
 - Array on connectorised PCB with mounting holes
 - Separate housed driver module
- Instant colour mixing at array surface
- 4 billion colours with RGBA
 - 4.3 Billion Colours - 4 x 256 step PWM channel RGBA
- Up to 200W
- Full colour/colour temperature control and monitoring
- Network and DMX512 compatible
- Smart thermal protection system
- Smart closed loop power control for optimum performance and longevity
- Compact Array Aperture: emitting area 16cm²
- Optional life-long 100% lumen maintenance
- Rugged and proven in demanding environments with inclusive 3 year system warranty

Applications & Markets

- Lighting
 - Entertainment
 - Retail
 - Exterior
 - Street lighting
- Medical
 - Skin treatment
 - Operating Room lighting
 - Neo-natal
 - Dental applications
- Industrial
 - Forensics
 - Security and surveillance
 - Non-Destructive Testing
 - LCD backlighting
 - Solar simulation
 - Bio-growth
 - Sterilisation
 - UV curing



Outline Specification

Wavelength		Typical Light Output
375nm		3400mW
405nm		25740mW
465nm		25740mW
520nm		11000mW
595nm		9160mW
630nm		18000mW
870nm		24750mW
3000°K - 7000°K		3500 lumens

Note: Driver/Controller not shown, please refer to separate datasheet

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Quattro Light Engine Rev. 2 Jan 08





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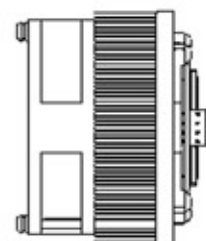
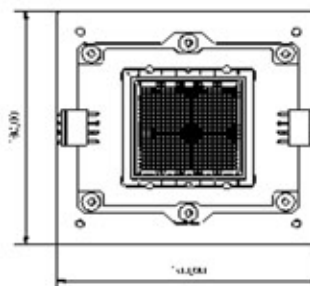
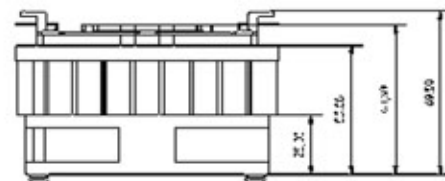
Technical Specification

Electro-Optical Characteristics

Light output power

Channel	Peak Wavelength	Typ Light Output (mW)	Typ Light Output (Lumens)
UV(A)	375nm	3400	-
Violet	405nm	25740	-
Blue	465nm	25740	1485
Green	520nm	11000	4988
Amber	595nm	9160	3984
Red	630nm	18000	3140
NIR	870nm	24750	-
RGBA	3000°K-7000°K	-	3500

Operating Temperature 0°C - +45°C
 Storage Temperature -20°C - +85°C
 Weight <0.8 Kg



Dimensions - 100(L) x 100 (W) x 72 (H) mm
 Input
 Input Voltage 48V DC 5A

Output Channels

Number of Channels 4
 Voltage per channel 16-42 Volts
 Maximum power per channel 50 Watts

Driver Control and Feedback

Temperature monitoring channel
 4 - channel efficient LED drivers based on switch mode power
 4 - channel trans-impedance amplification for light monitoring/control
 Current and voltage monitoring of each channel
 8-bit Pulse Width Modulation (PWM) for dimming
 Pseudo random colour sequencing

Connectivity

4 auxiliary inputs available for switches, potentiometers etc.
 TTL RS-232 interface and USB/Serial PC interface
 DMX512 – RS485 interface
 IXC interface available for customer requirements

Thermal Management

Composite metal heatsink with integrated low noise DC fan Low thermal resistance <0.4 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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