



ENFIS UNO AIR-COOLED LIGHT ENGINE

Smart, compact, efficient, high-power LED spot source - total solution

Features & Benefits

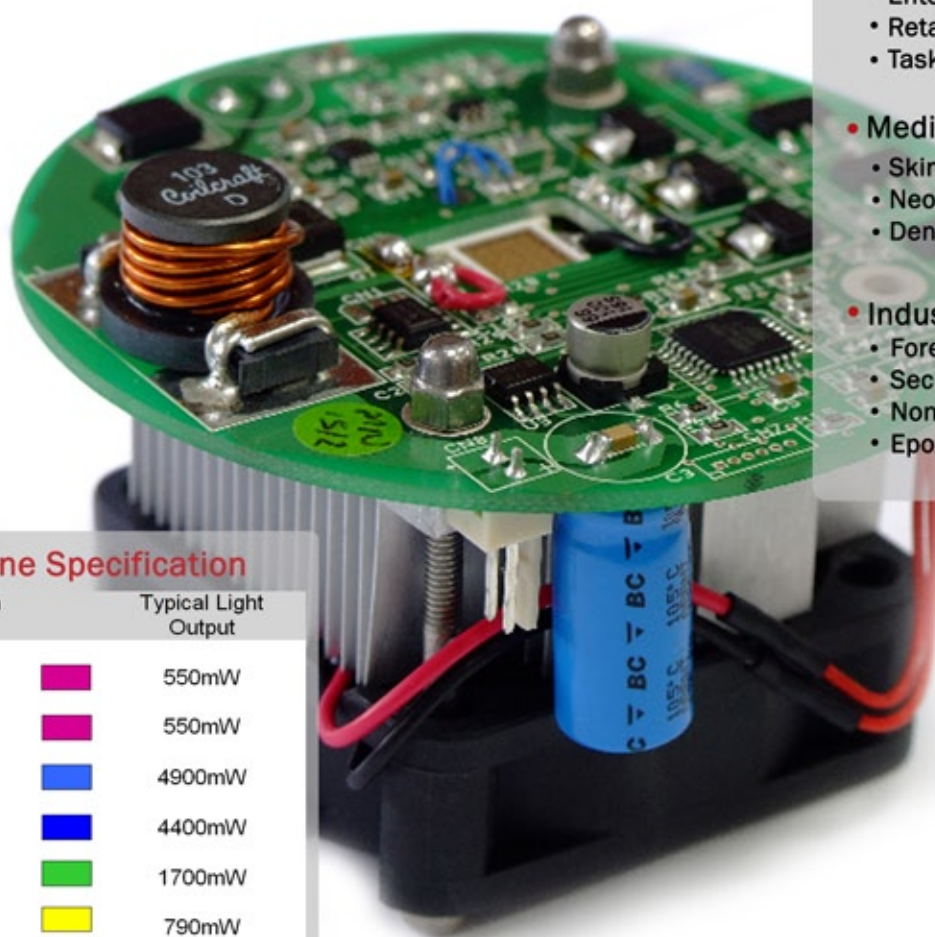
- **Plug & Play**
 - Just plug in and go straight from the box!
 - Ideal for product development and volume
 - Reduces integration time and risk
- **USB connection for monitoring input, output and temperature**
- **Neutral White**
- **Single colours 365nm - 870nm**
- **Ultra high density Array up to 100 chips within 0.5cm² aperture**
- **Smart thermal protection system**
- **Optional life-long 100% Lumen maintenance**
- **18-36W**
- **Long life, low maintenance**
- **System 3-year warranty**

Applications & Markets

- **Lighting**
 - Entertainment
 - Retail
 - Task
- **Medical**
 - Skin treatment
 - Neo-natal
 - Dental applications
- **Industrial**
 - Forensics
 - Security and surveillance
 - Non-Destructive Testing
 - Epoxy/adhesive curing

Outline Specification

Wavelength		Typical Light Output
365nm		550mW
375nm		550mW
405nm		4900mW
465nm		4400mW
520nm		1700mW
595nm		790mW
630nm		2180mW
870nm		1810mW
4100°K		1000 lumens



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UNO Air-Cooled Light Engine Rev. 2 Jan 08





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Technical Specification

Electro-Optical Characteristics

Light output power

Channel	Peak Wavelength (nm)	Typ Light Output (mW)	Typ Light Output (Lumens)	Total Electrical Power
UV(A)	365nm	550	-	18
UV(A)	375nm	550	-	18
Violet	405nm	4900	-	36
Blue	465nm	4400	270	36
Green	520nm	1700	760	36
Amber	595nm	780	370	18
Red	630nm	2180	420	18
NIR	870nm	1810	-	18
White	4100°K	-	1000	36

Technical Specification

Operating Temperature -10°C* - 45°C

Storage Temperature -20°C - +85°C

*In non-condensing atmosphere

Input

Input Voltage

Blue / Green / Violet / UVA / White 12V <5A DC

Red / Amber 9V <5A DC

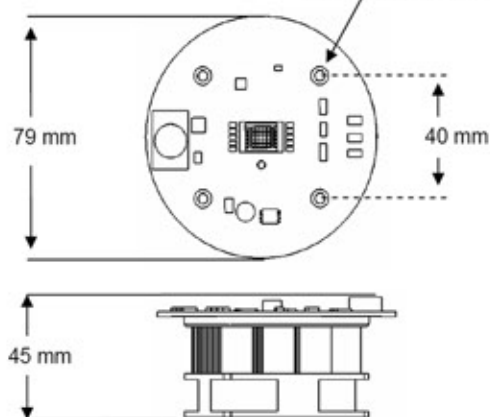
NIR 5V <5A DC

Dimensions

Diameter 79mm

Depth/Height 45mm

Ø3.5mm Mounting Hole x 4



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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