ENFIS QUATTRO Array Infra-Red (NIR) 870nm

Smart, powerful, compact, efficient, reliable light

Features & Benefits

- Intense, high-power Infra-Red spot source
- Ultra-high power density
- Long-life and reliable, high-performance due to excellent thermal conductivity

Outline Specification

- 36000mW typical power:
- 16cm² Aperture
- 2250mW/cm² power density
- Input power: 300W

Light Engine Integration

Enfis can eliminate the time, cost and risk of integration by offering our arrays as part of a complete light engine solution

Smart Array Technology

Light output from Enfis Arrays can be monitored and controlled via a patent-pending integrated photo-detection system, enabling precise control of light output.

Thermal Management

Enfis arrays are designed to provide excellent thermal conductivity and to be integrated effectively with thermal hardware to ensure optimum performance and life.

Optics

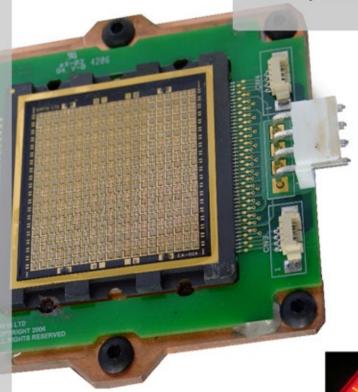
Enfis UNO arrays provide a compact spot source with Lambertian emission characteristics. Enfis technical experts can advise a range of optical solutions to match your requirements.

Power Management

Enfis provides a range of feature -rich, powerful drivers and power supplies for our arrays. Our applications team can provide you with a solution for your specific requirements.

Applications & Markets

- Medical applications
- Security & surveilance



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

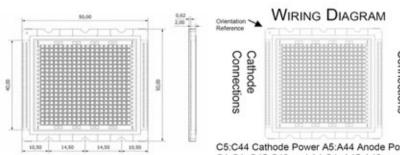
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Enfis QUATTRO Array Infra-Red (NIR) 870nm **Technical Specification**

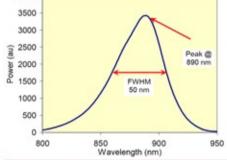
Electro-Optical Characteristics

Item	Min	Тур	Max
Rated Current		16000	
I _f (mA)			
Forward Voltage		18	20
V _f (Volts)			
Peak Wavelength	840	870	900
λ _p (nm)			
Spectral Width	40	50	65
Δλ (nm)			
Total Radiant Flux	32000	36000	
Φ _R (mW)			
Radiant Flux Density	2000	2250	
dΦ _R /dA (mW/cm ²)	100000000000000000000000000000000000000		
Total Electrical Power		300	320
P (W)			

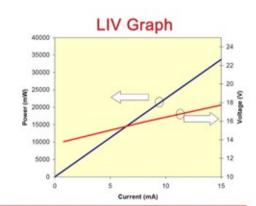


C5:C44 Cathode Power A5:A44 Anode Power C1-C4, C45-C49 and A1-S4, A45-A49 are for SMART array connections.

Spectral Data



Angular Distribution 0.9 0.8 0.7 g 0.6 0.5 0.4 0.3 0.1 0 -90 -60 Angle (degrees)



Heat Generation

4000

Proper thermal design of the end product is of paramount importance. The operational junction temperature of each LED chip should be kept below 125°C.

Please contact Enfis for further support in this matter.

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.

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