

DATASHEET

ArLight NIR & IR lamps

Stabilized Broadband Light Sources for VIS-NIR and IR

The Arcoptix ArLight NIR & IR are versatile lamps optimized for the VIS-NIR (400 nm – 4,000 nm) or MIR (1-25 μ m) spectral ranges. The lamps feature an electronically stabilized power supply, a variable mechanical attenuator, and are supplied with a removable fiber coupler enabling free-space of fiber-coupled operation.



■ Features

- Near- and Mid-infrared versions available (0.4-4 μ m or 1-25 μ m)
- Electronically stabilized
- Brightest available lamps
- With mechanical intensity attenuator
- Free-space or fiber-coupled operation (removable fiber coupler)

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Specifications

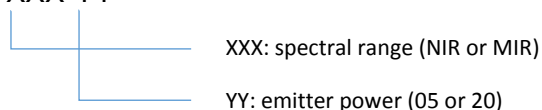
Models	ArcLight NIR	ArcLight MIR
Lamp type	QTH (halogen)	SiC globar
Spectral Range [μm]	0.4-4	1-25
Spectral Range [cm^{-1}]	25,000-2,500	10,000 - 400
Temperature [K]	$\sim 2,850$	$\sim 1,400$
Rated Lifetime [hours]	4,000	10,000
Lamp power [W]	5 or 20	20
Removable fiber-optic coupler	NA = 0.25 CaF2 lens	NA = 0.3 gold-coated off-axis parabolic mirror
Output beam diameter [mm]	12.7mm	
Operational temperature range [$^{\circ}\text{C}$]	5-40	
Attenuator	Manual iris diaphragm	
Power requirement	12V via OD2.5mm/ID2.1mm power jack (100-240V AC to 12V DC converter included)	
Dimensions	92mm x 92mm x 43mm (without fiber coupler) 140mm x 92mm x 43mm (with fiber coupler)	
Weight	390 g	

SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT NOTICE.

Ordering Information

The ArcLight is available in different versions:

ARCLIGHT-XXX-YY



ARCLIGHT -NIR-05: near-infrared lamp with 5W QTH bulb

ARCLIGHT -MIR-20: mid-infrared lamp with 20W emitter

Please contact info@arcoptix.com for more information.