

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 or 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

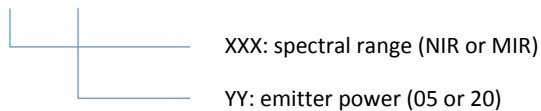
| Models | ArcLight NIR | ArcLight MIR |
|--|--|---|
| Lamp type | QTH (halogen) | SiC globar |
| Spectral Range [μm] | 0.4-4 | 1-25 |
| Spectral Range [cm^{-1}] | 25,000-2,500 | 10,000 - 400 |
| Temperature [K] | ~2,850 | ~1,400 |
| Rated Lifetime [hours] | 4,000 | 10,000 |
| Lamp power [W] | 5 or 20 | 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.