



[Manufacturer of FT-IR / FT-NIR Spectrometers
& Liquid Crystal Elements](#)

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ARCOptix ARCLIGHT-NIR & ARCLIGHT-MIR

The ARCOptix ARCLIGHT-NIR & ARCLIGHT-MIRIR are versatile broadband lamps optimized for the VIS-NIR (400 – 4,000nm) or MIR (1-25 μ m) spectral ranges. The light sources used in the ArcLight lamps are the brightest available, ensuring that you will achieve the best signal-to-noise ratio in your application. The lamps feature a high-end stabilized electronic power supply and a variable mechanical attenuator. They are supplied with a removable fiber coupler enabling free-space or fiber-coupled operation.





Specifications

| | | |
|-------------------------------|--|--|
| Product code | ARCLIGHT-NIR | ARCLIGHT-MIR |
| Spectral range | 400-4,000 nm | 1-25 μm |
| Spectral range | 25,000-2,500 cm^{-1} | 10,000 - 400 cm^{-1} |
| Temperature | $\sim 2,850 \text{ K}$ | $\sim 1,550 \text{ K}$ |
| Rated lifetime | 4,000 h | 10,000 h |
| Lamp power | 20 W | 20 W |
| Lamp type | QTH (halogen) | SiC globar |
| Removable fiber coupler | SMA-905 NA = 0.25 CaF ₂ lens | SMA-905 NA = 0.3 Off-axis parabolic mirror |
| Output beam diameter | 12.7mm | |
| Operational temperature range | 5-40 $^{\circ}\text{C}$ | |
| Attenuator | Manual iris diaphragm | |
| Cooling | Forced air | |
| Power requirement | 12V (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 | |

- Broadband
- Highest intensity and color temperature
- VIS-NIR and IR versions available
- Removable fiber coupler
- Mechanical attenuator



[DOWNLOAD](#) pdf description of the ArcLight lamps

AR@ptix
Switzerland

FT IR Spectrometers &
Liquid Crystal Elements

ABOUT US

ARCOptix is a high-tec company established in Neuchatel (Switzerland) that is situated along the ARC of the Jura mountains in the heart of the watch valley.

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