

ARCspectro USB lamp

ARCOptix
Switzerland

DATA SHEET



USB-Powered Infrared Light Source



Portable spectroscopic devices allow measuring on-site, thus avoiding cumbersome collection of samples from field to laboratory analysis. With the newly developed USB-powered NIR and MIR light sources you get the freedom you need for on-field analysis with sufficient optical power for both transmission and reflection measurements. Excellent stability is achieved thanks to current-control operation. The USB-powered light source and ARCSpectro ANIR spectrometers are perfect tools for on-site NIR measurements with a portable computer as unique power source.

Typical characteristics of the lamp are :

- **USB powered with optional external line**
- **NIR and MIR versions available**
- **Excellent stability**
- **Mechanical shutter for intensity tuning**
- **Integrated slot for cuvettes and samples**

Applications

- On-field measurement without power line
- Gas detection, environmental monitoring, security
- Material identification and process control

For additional information please contact:

WWW.ARCOPTIX.COM

FEATURES & BENEFITS

Low power consumption allows direct USB powered operation and portability for on-field NIR spectroscopy.

Highly stable constant-current control.

High power in the NIR and extended range model to the MIR.

Can be connected to SMA fibers and mechanically attenuated with the incorporated shutter.



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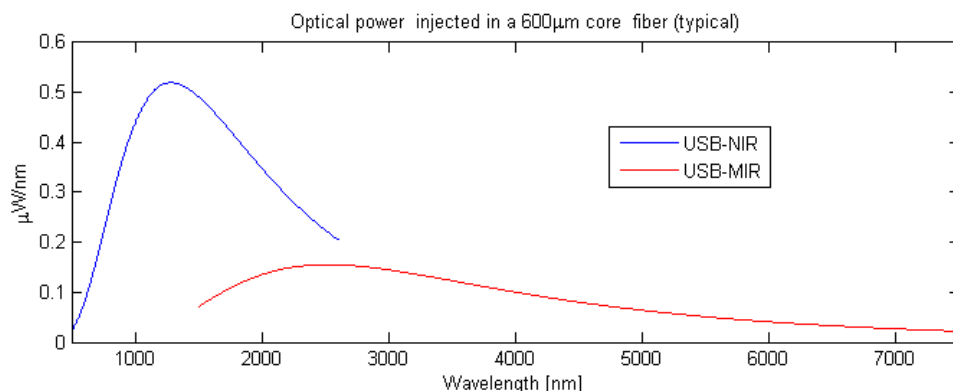
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ARCSpectro is currently providing two models of the lamp series

	USB – NIR	USB – MIR
Spectral range (nm)	400 – 2600	1500 – 10000
Optics	BK7	CaF2

General specifications

Lamp type	Tungsten-halogen / IR Emitter
Filament temperature	2230 K (NIR) or 1170 K (MIR)
Stability	< 2% (current control)
Bulb life -time	30'000 h
Fiber optical connector	SMA 905
Operating voltage	5 V - 0.5 A (USB powered)
Operating temperature	10° - 30°C
Communication interface	UBS 2.0
Shutter	Mechanical
Software interface	Windows XP
Product dimensions	70 mm x 70 mm x 60 mm
Weight	450 g



ARCOptix is a company located in Neuchâtel (Switzerland) in the heart of the watch valley.
For more information about ARCOptix, visit www.arcoptix.com. Tel. +41 (0) 32 731 0464

The ARCSpectro lamp has a SMA connector to directly connect optical fibres and standard reflection probes.



The slot allows placing samples and cuvettes directly in the lamp, and no additional accessories are needed to start the measurement. No need for additional cuvette holder or fibers.



The USB-NIR version is delivered with a spare bulb and a 25 cm optical fiber with 600 micron core.

Optional are software intensity control and ultra high power bulbs.