

ARCSpectro USB lamp

ARCOptix
Switzerland

DATA SHEET



Regulated near infrared USB lamp



The ARCOptix USB lamp is a compact usb powered holgen lamp. The USB lamp features a SMA 905 connector for easy coupling in optical fibers. The USB lamp features also a smart power control for high lamp stability, a mechanical variable shutter for power output control and an integrated cuvette or filter holder. the USB empowering makes the lamp ideal for on the field spectral measurements

Typical characteristics of the lamp are

- **USB powered with optional external line**
- **Huge wavelength range from 400 nm up to 4.5 μm**
- **Excellent stability**
- **Variable light power output**
- **Integrated slot for cuvettes and samples**

Applications

- On the 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

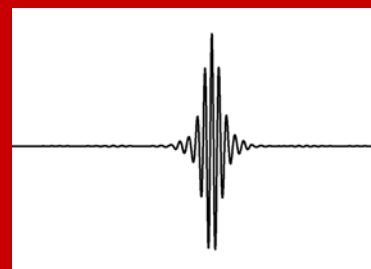
Low power consumption allows direct USB power and ultra portability for in the field spectroscopy.

Long bulb lifetime and smart power control.

**High power in the NIR.
Extended range to the MIR.**

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

Standard probes can directly be attached.



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ARCSpectro is currently providing two models of the lamp series

	USB – NIR	USB – MIR
Spectral range (nm)	400 – 2600	400 – 4500
Collimation Optics	BK7	CaF2

General specifications

Lamp type	Halogen
Bulb temperature	2230 K
Stability	< 1%
Bulb live time	30'000 h
Fiber optical connector	SMA 905
Operating voltage	5 V - 0.5 A (USB powered)
Operating temperature	5° - 40°C
Communication interface	UBS 2.0
Variable Shutter	Mechanical
Software interface	Windows XP
Product dimensions	70 mm x 70 mm x 60 mm
Weight	450 g

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



The slot allows to put samples and cuvettes directly in the lamp and no additional accessories are needed to start the measurement.



The ARCSpectro lamp 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.

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

Specifications are subject to change without notice

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