

ARCspectro UV-VIS-NIR FIB

ARCOptix
Switzerland

DATA SHEET



UV, VIS & NIR ultra-broadband spectrometer (200-2600nm) with fiber-inputs

The ARCSpectro UV-VIS-NIR Fiber-Input is an ultra-broadband spectrometer designed for use with fibered probes over the complete UV, VIS & NIR spectral range. The system incorporates two spectrometers and has two separate SMA inputs for the UV-VIS and for the NIR ranges, thus matching the transmission ranges of high- and low-OH fibers. The software supplied with the spectrometer automatically merges the spectra produced by the 2 spectrometers.

Key characteristics of the ARCSpectro UV-VIS-NIR are:

- **Ultra-broad spectral range: 200nm-2600nm**
- **Very good resolution (<5 nm)**
- **Operation via optical fibers**
- **Fast measurements (down to 1 second)**
- **Very easy to use**

Applications:

- **Remote transmission and reflection measurement over the full UV to NIR spectrum, via optical fiber probes**
- **Solar related reflectivity & radiometric measurements**

For additional information please contact:

ARCOPTIX S.A.
2000 Neuchâtel, Switzerland
Tel. +41 32 731 04 66
info@arcoptix.com



FEATURES & BENEFITS

Two spectrometers in one:

The system incorporates one ArcOptix FT-NIR Fourier-Transform scanning spectrometer for the NIR range 0.9-2.6 and one multichannel grating spectrometer for the UV-VIS range, providing an ultra-broad spectral range: 200-2600nm. Both instruments are integrated in a single, portable housing.

Fast measurements:

Unlike most scanning spectrometers used for such applications that take several minutes for a complete scan, the ARCSpectro UV-VIS-NIR gives a result within one second!

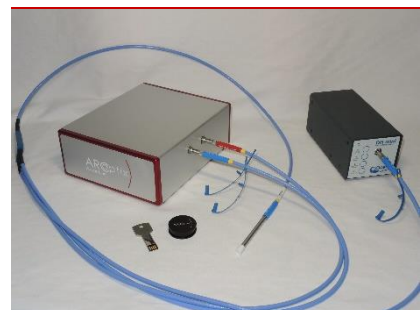
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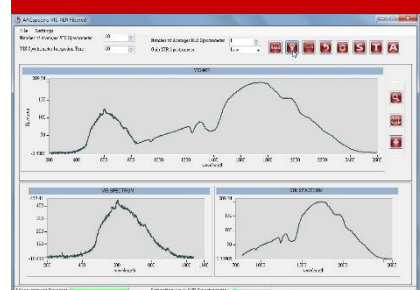
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ARCSpectro VIS-NIR DR specification overview:

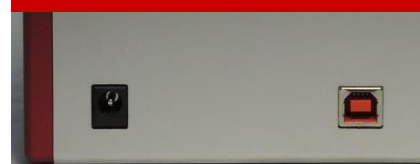
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|---|--|
| Spectral range | 200 – 2600 nm |
| Spectral resolution | <5 nm (optical) 1nm reporting interval |
| UV-VIS spectrometer type | Dispersive spectrometer with a silicon array detector (3648 pixels) 16-bit ADC Spectral range: 200-1025nm |
| NIR spectrometer type | Fourier-Transform NIR spectrometer with dual-corner cube interferometer and extended range InGaAs photodiode 24-bit ADC Spectral range: 900-2600nm |
| Fiber inputs | 2x SMA-905 (one for UV-VIS, one for NIR) |
| Minimum measurement time | 1 sec |
| SNR (Full dynamic range- 5 sec measurement, DH-2000-DUV directly attached) | >1'000:1 (UV-VIS) >10'000:1 (NIR) |
| Software Interface | Windows 7 / 8 / 10 |
| Operating voltage (power) | 12V DC (line power adaptor is included) |
| Communication Interface | USB 2.0 |
| Product Dimensions | 220mm x 180mm x 80mm |
| Product Weight | 2.5 Kg |
| Operating Temperature | 5°C – 35°C |



Typical set-up with a reflection fiber bundle and a UV-VIS-NIR light source



Software interface for Windows 7, 8 & 10 included. The software automatically merges the spectral data from the UV-VIS and NIR spectrometers.



Power jack and USB port.

ARCOptix is a company located in Neuchâtel (Switzerland) in the heart of the watch valley. For more information about ARCOptix, visit www.ftir-spectrometer.com