

# 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:

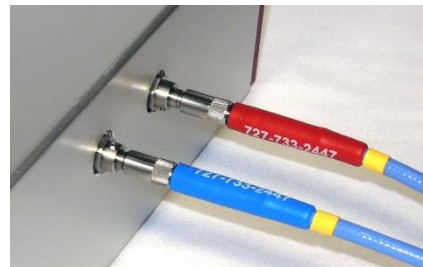
- **Ultra-broad spectral range: 200nm-2600nm**
- **Very good resolution (<5 nm)**
- **Operation via optical fibers**
- **Fast measurements (down to 1 second)**
- **Very easy to use**

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:**

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## 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!

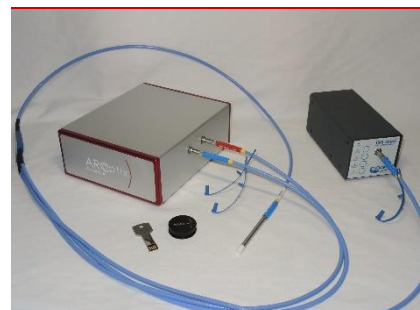
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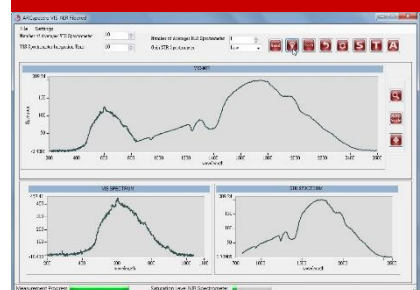
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ARCSpectro VIS-NIR DR specification overview:

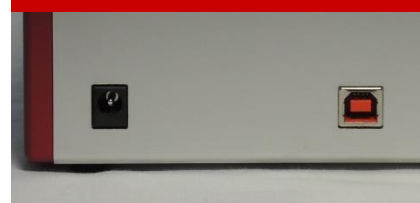
<b>Spectral range</b>	<b>200 – 2600 nm</b>
<b>Spectral resolution</b>	<b>&lt;5 nm (optical) 1nm reporting interval</b>
<b>UV-VIS spectrometer type</b>	<b>Dispersive spectrometer with a silicon array detector (3648 pixels) 16-bit ADC Spectral range: 200-1025nm</b>
<b>NIR spectrometer type</b>	<b>Fourier-Transform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



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](http://www.ftir-spectrometer.com)