AvaSpec Multichannel Fiber Optic Spectrometers

**AvaSpec-USB1.1 platform**
The AvaSpec USB 1.1 platform Fiber Optic Spectrometers can be configured as single, dual, triple, quadruple or multichannel instrument with up to 8 different spectrometer channels, all read out simultaneously, controlled by a master’s board microprocessor.

The simultaneous data-sampling allows fast read-out and enables for example monitoring of short duration events, i.e. pulsed light sources with different channels looking at the same pulse.

Multichannel spectrometers all consist of the same detector type (102, 256 or 1024 or 2048 pixels), the spectrometer channels can of course cover different wavelength ranges or have different resolution specifications. For each channel grating, wavelength range and options need to be specified.

The multichannel spectrometers all run with one USB interface and under AvaSoft software.

Multichannel housing can be in 9.5” desktop (for 1-4 channels) or 19” rack mount housing (1-8 channels).

**AvaSpec-USB2.0 platform – maximum modularity**
The new AvaSpec-USB2.0 platform offers maximum modularity for multi-channel applications. For each channel a different wavelength range, detector and integration time can be selected, without losing the advantage of synchronization between the different channels. The AvaSpec-USB2.0 platform uses the USB2.0 bus to connect the different channels to the PC platform and supports up to 128 channels. New applications that can be realized with the AvaSpec-USB2.0 multi-channel platform:

- Different integration times or averaging setting per channel, still start each scan simultaneously for all synchronized channels
- Different detector types, such as UV/VIS and NIR detectors possible to cover a wide wavelength range with one spectrometer system
- More than 8 channels (even up to 128 channels) can be connected through USB2 hubs.

To order a USB2.0 multi-channel, please specify the different spectrometers (-RM) and options and the housing (up to 4 channels in desktop, up to 8 channels in rack mount).

**AvaSpec-4 channel in desktop (-DT)**

**AvaSpec-8 channel in rack mount (-RM)**

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**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>AvaSpec-102-x-DT/-RM</td>
<td>Multichannel AvaSpec-102 Fiber Optic Spectrometer with x (max 4) channels in desktop housing, (-DT) or with max. 8 channels in rack mount housing (-RM) for all channels specify grating, wavelength range and options</td>
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<tr>
<td>AvaSpec-256-x-DT/-RM</td>
<td>Multichannel AvaSpec-256 Fiber Optic Spectrometer with (max 4) x channels in desktop housing, (-DT) or with max. 8 channels in rack mount housing (-RM) for all channels specify grating, wavelength range and options</td>
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<tr>
<td>AvaSpec-1024-x-DT/-RM</td>
<td>Multichannel AvaSpec-1024 Fiber Optic Spectrometer with (max 4) x channels in desktop housing, (-DT) or with max. 8 channels in rack mount housing (-RM) for all channels specify grating, wavelength range and options</td>
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<tr>
<td>AvaSpec-2048-x-DT/-RM</td>
<td>Multichannel AvaSpec-2048 Fiber Optic Spectrometer with x (max4) channels in desktop housing, (-DT) or with max. 8 channels in rack mount housing (-RM) for all channels specify grating, wavelength range and options</td>
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For ordering information on AvaSpec-USB2.0 multi-channel instruments, please contact our technical sales department.