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Multi-channel Spectroscopy Systems

Ocean Optics defines a multi-channel spectroscopy system as any system with three or more spectrometer channels or three or more devices of any kind - i.e., a combination of spectrometers and other devices. Stackable devices include the LS-1 Tungsten Halogen Light Source, LS-450 Blue LED Pulsed Light Source, Mini-D2T Deuterium Tungsten-Halogen Light Source and TR-2 Temperature Regulator. (Two-channel spectrometers can be purchased as the SD2000 or SD1024DW. See the Retail Price List for details.)



Multi-channel spectroscopy systems feature these key benefits:

- **Spectrometer multiplexing** -- connect up to 8 synchronous spectrometers that all run from a single analog-to-digital converter
- **Modular design** -- combine spectrometer channels with other components -- up to 14 devices -- in a single housing
- **Application flexibility** -- configure systems for applications requiring expanded wavelength range, multi-point sampling or reference monitoring

Contact an Ocean Optics Applications Scientist

OEM Solutions

Multi-channel spectroscopy system options are outlined in Table 1. Two housings accommodate multi-channel systems: a desktop box and a rack unit. Your housing selection depends on your application and the number of devices integrated into the system. Desktop box and rack unit features are described in Table 2.

Ordering multi-channel spectroscopy systems requires assistance. We recommend that you review the sample order in Table 3, and then contact an applications scientist at 727.733.2447 to configure your system.

Table 1: Multi-channel Spectroscopy System Options

Spectrometer Type	Maximum Number of Spectrometer Channels Available	Number of Available Slots in Desktop Box	Number of Available Slots in Rack Unit
S2000	8	7	14
USB2000*	1	Not Applicable (see USB2000)	
TR-2 Temperature Regulator option for S2000 Spectrometers	6	3 (each TR-2 takes 2 slots in desktop box)	6 (each TR-2 takes 2 slots in rack unit)

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PC2000	8	Not Applicable (see PC2000)	
S1024DW	8	7	14

* The USB2000 supports a single spectrometer channel only. However, multiple USB2000 Spectrometers can be operated using expansion hubs and other methods. Call 727.733.2447 for details.

Table 2: Multi-channel Spectroscopy System Desktop and Rack Unit Features

	Item Code	Useable Height	Height	Useable Depth	Depth	Useable Width	Width	Weight (empty)	Price
Desktop 3U x 42HP	BOX-DESKTOP	4.48"	5.25"	10.2"	10.5"	8.4"	9.3"	5.5 lb.	$820
Rack 3U x 84HP	BOX-RACK	4.48"	5.25"	10.2"	10.5"	16.8"	17.7"	8.0 lb.	$900.00

Table 3: Sample Multi-channel Spectroscopy System Order

This table demonstrates a step-by-step sample order having 5 spectrometer channels, a serial port A/D interface, and a light source for each channel -- all in one rack. The order also includes 5 dip probes.

Item	Description	Sample Order	Price
1. Start with the box: BOX-DESKTOP or BOX-RACK.	BOX-DESKTOP designates the desktop box. BOX-RACK is the rack unit.	Specify a BOX-RACK. It is twice as wide as the BOX-DESKTOP and accommodates more components.	**$900.00**
2. Specify the # of spectrometer channels: MC-2000-5	MC designates "multi-channel" system. The 2000 is the spectrometer type (S2000 Spectrometer). 5 indicates the total number of spectrometer channels (Master + up to 7 Slave channels).	Specify a 5-channel system: MC-2000-5. The cost is $1800 for the Master channel and $799 for each of the 4 Slave channels.	**$4,996.00**
3. Specify gratings and optical bench accessories for each spectrometer channel.	See the Grating Selection Chart on p. 39. Optical bench accessories are described on p. 10. Select gratings and accessories for each spectrometer channel.	It is possible to select different gratings and accessories for each spectrometer channel. To keep our order simple, specify Grating #3 (350-850 nm), a 100 m m slit and an L2 Collection Lens for each spectrometer channel. Add $100/slit x 5 and $150/lens x 5.	**$1,250.00**
4. Add an analog-to-digital converter.	The SAD500 Serial Port Interface interfaces the spectrometer to the PC and is stackable with other components.	Specify a SAD-500-S SAD500 Serial Port Interface. It will support all 5 spectrometer channels. The S indicates that the SAD-500 is stacked with the spectrometers inside the box.	**$699.00**

5. Add appropriate light sources. Use the prefix R- with the item code to indicate that the light source should be installed into the desktop or rack box with the other devices.	Stackable light sources include the LS-1 Tungsten Halogen Light Source and the LS-450 Blue LED Pulsed Light Source.	Specify an R-LS-1 Tungsten Halogen Light Source for each spectrometer channel. The cost is $499 per R-LS-1 Light Source x 5.	**$2,495.00**
6. Add desired sampling optics.	In most cases, the sampling optics will connect via optical fiber to the SMA 905 connectors on the front panel of the housing. Other sampling optics may be stackable with the system's other components. Call (727) 733-2447 for assistance.	Specify a T300-RT-UV/VIS Transmission Dip Probe for each channel. The cost is $990/probe x 5. These probes will connect to SMA 905 connectors on the front panel of the rack box.	**$4,950.00**
Sample Order Price:			**$15,290.00**

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