



Made in the USA

OEM Mini Grating Spectrometers Selection Guide

ELEMENTAL ANALYSIS

FLUORESCENCE

GRATINGS & OEM SPECTROMETERS

OPTICAL COMPONENTS

PARTICLE CHARACTERIZATION

RAMAN

SPECTROSCOPIC ELLIPSOMETRY

SPR IMAGING

See us at
Photonics West
Booth #5000

Miniature CCD & PDA Spectrometers - Single or Dual Fiber Optic Inputs

Miniature Spectrometers	Model	Minimum Readout Time	SNR (in Shot Noise conditions)	Coverage	Resolution & Pixel Format	Input Fibers
Compact/Low Cost 	VS7000-CCD-HS VS7000-CCD-HD VS7000-PDA	1.3 msec 4.5msec 3.5 msec	450:1 625:1 > 30,000:1	4 Gratings: 200-860nm 200-1050nm 380-750nm 350-1050nm	Sub 1nm to 5+ nm (grating dependent) 512/1024/2048 pixels	1-2 fibers
NEW / High End: UV-VIS-NIR 	VS7000-CCD-HS1 (2D CCD) VS7000-CCD-HSE (Electronic Shutter)	1 msec (as linear CCD) 1 msec (4 µseconds)	500:1 525:1	4 Gratings: 200-860nm 200-1050nm 380-750nm 350-1050nm	Sub 1nm to 5+ nm (grating dependent) 2048 pixels	1-2 fibers
NEW / High End: UV 	VS1110-CCD-HS1 (2D CCD) VS1110-CCD-HSE (Electronic Shutter)	1 msec (as linear CCD) 1 msec (4 µseconds)	500:1 525:1	1 Grating: 190-390nm	Sub 0.5nm to 5+ nm 1024 / 2048 pixels	1-2 fibers
NEW / High Throughput 	CT300 CT330	1.6 msec	Up to 1100:1	2 Gratings: 200-800nm 200-880nm More with 2048 pixels	Sub 2nm to 5+ nm 1024 / 2048 pixels	Large Dia. Single Fiber
Hand-held Raman 	Mini-CCT with BI CCD for RAMAN (with 532/640/785nm lasers)	4.5msec	NA for Raman High VIS or NIR QE CCDs	Various Gratings: Typical 250 to 3000 cm ⁻¹	Sub 0.5nm to 1-2 nm 1024 / 2048 pixels	1-2 fibers

Concave Gratings or Czerny-Turner Designs – Sturdiness

Quality – Consistency – High Volume... On-time

Rapid Customization – Black boxes or Your Logo on your OEM modules

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Multiple Fiber Inputs OEM Spectrometers & Scientific Cameras Selection Guide

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Multichannel CCD Spectrometer • 1024 to 2048 Pixels • 5-40 Fiber Inputs

Multi-inputs Fiber Spectrometers	Model	Minimum Readout Time	SNR (in Shot Noise conditions)	Coverage	Resolution	Input Fibers
LOW COST 2-6 Channels 	DVS7000-CCD-HS (Back-Illuminated CCD) DUAL DESIGN 2 or more simultaneous spectra	1.3 msec	450:1	VIS Grating: 500-750nm (x2) Other on request	1.5nm to 5+ nm (grating dependent) 2048 pixels	2-4-6 fibers
Simultaneous 20 Fibers 	From CC-55-6 channels to CC-55-20 channels (Interline FI CCD) SIMULTANEOUS ACQ.	Up to 20 Hz for 20 Spectra SIMULTANEOUS	140:1	VIS-NIR Grating: 400-800nm 500-1000nm UV on Request	Sub 3nm to 12 nm (grating dependent) 1300 pixels	6-40 or more in sequential mode
Sequential High Throughput 	CT-300-20 channels (Back-Illuminated CCD) SEQUENTIAL ACQ.	1 msec 4.5 msec	500:1 625:1	UV-VIS or VIS Grating: Adjustable	Sub 0.5nm to 5+ nm 1024 / 2048 pixels	10-22
NEW / High Throughput 	CC-RAMAN with Deep-cooled Scientific CCD Camera (-40C to -60C)	Various	Readout Noise: 10 e-	UV-VIS VIS-NIR Q.E. responses	6-8 cm ⁻¹	1 or more

Scientific Deep-cooled CCD Cameras for OEM Applications • QE Curves

	Sincerity OEM Family Open Electrode (1024x256) NIR BI (2048 x 70) NIR QEXTRA™ (1024x256)			
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