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## OEM Mini Grating Spectrometers Selection Guide



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

Concave Gratings or Czerny-Turner Designs – Sturdiness

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

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

[www.horiba.com/OEM](http://www.horiba.com/OEM)

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## Multiple Fiber Inputs PoliSpectra 2D-CCD Spectrometer & Scientific Cameras

- ELEMENTAL ANALYSIS
- FLUORESCENCE
- GRATINGS & OEM SPECTROMETERS
- OPTICAL COMPONENTS
- PARTICLE CHARACTERIZATION
- RAMAN
- SPECTROSCOPIC ELLIPSOMETRY
- SPR IMAGING

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

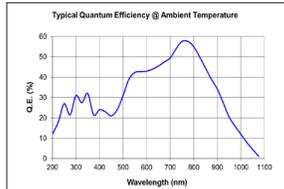
Multi-inputs Fiber Spectrometers	Model	Minimum Readout Time	SNR (in Shot Noise conditions)	Coverage	Resolution	Input Fibers
<b>LOW COST 2-6 Channels</b> 	DVS7000-CCD-HS (Back-Illuminated CCD) DUAL DESIGN 2 or more simultaneous spectra	1.3 msec	450:1	<b>VIS Grating:</b> 500-750nm (x2) Other on request	1.5nm to 5+ nm (grating dependent) 2048 pixels	<b>2-4-6 fibers</b>
<b>Simultaneous 2-26 Fibers</b> 	CC-55 with Type-I grating (equidistant & parallel grooves) (Interline FI CCD)	Up to 20 Hz for 20 Spectra  SIMULTANEOUS	140:1	<b>VIS-NIR Grating:</b> 400-800nm 500-1000nm <b>UV on Request</b>	Sub 3nm to 12 nm (grating dependent) 1300 pixels	<b>6-40 or more in sequential mode</b>
<b>Sequential High Throughput 2-20 Fibers</b> 	CT-300-Patented modified Czerny-Turner design (Back-Illuminated CCD)	1 msec  4.5 msec	500:1  625:1	<b>UV-VIS or VIS Grating:</b> Adjustable	Sub 0.5nm to 5+ nm 1024 / 2048 pixels	<b>10-22</b>
<b>NEW / High Throughput</b> 	CC-RAMAN with Deep-cooled Scientific CCD Camera (-40C to -60C)	Various	Readout Noise: 10 e-	<b>UV-VIS VIS-NIR Q.E. responses</b>	6-8 cm <sup>-1</sup>	<b>1 or more</b>

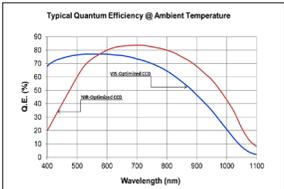
### Scientific Deep-cooled CCD Cameras for OEM Applications ▪ QE Curves

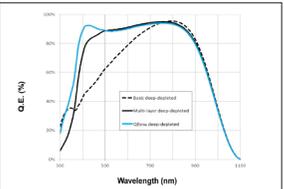
**-50C to -60C**



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







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