



Specification	MonoVista CRS <sup>3</sup> Core		MonoVista CRS <sup>3</sup>	DuoVista	TriVista Basic	TriVista CRS <sup>3</sup>
Type of System	Confocal Raman/PL Spectroscopy System			Double Monochromator System	Triple Monochromator System	Confocal Raman/PL Spectroscopy System
Number of Monochromators	1			2	3	
Monochromator focal lengths available	150, 200, 300, 500 mm	300, 500, 750 mm		2 x 300 mm or 500 mm or 750 mm	3 x 300 mm or 500 mm or 750 mm 2 x 300 mm and 1 x 500 mm or 2 x 500 mm and 1 x 750 mm	
Number and type of Entrance ports	up to 2 3 mm slit assemblies			up to 3 3 mm slit assemblies	up to 4 3 mm slit assemblies	
Number and type of Exit ports	up to 2 3 mm slit assemblies or array detector ports			up to 3 3 mm slit assemblies or array detector ports	up to 4 3 mm slit assemblies or array detector ports	
Housing available	Fully housed Sliding door for microscope cover optionally possible Laser Safety Class I optionally possible			Open system for user's side integration		Fully housed Sliding door for microscope cover optionally possible Laser Safety Class I optionally possible
Microscope system included?	Yes			Optional		Yes
Spatial resolution with 100x, NA 1.0 objective, @ 532 nm	< 350 nm XY < 1 μm Z					< 350 nm XY < 1 μm Z
Macro-Chamber possible?	Yes (externally)					Yes
Fiber-Coupled microscope or extensions, like probes possible?	Yes					
Typical spectral resolution dispersion/pixel, 20 μm pixel size detector @ 633 nm, on 2400g/mm grating	0.009 nm / 0.32 cm <sup>-1</sup> with 500 mm spectrograph	0.006 nm / 0.25 cm <sup>-1</sup> with 750 mm spectrograph		0.003 nm / 0.11 cm <sup>-1</sup> with double 750 mm spectrograph (1500 mm focal-length) additive mode	0.002 nm / 0.08 cm <sup>-1</sup> with triple 750 mm spectrograph (2250 mm focal-length) additive mode	
max. Laser Lines	4	8		open system user and space dependent		7 (14 optionally possible)
max. Detectors	1 on 150 or 200 mm version 2 on all other versions 4 via optional quick-change mount	2 on all versions 4 via optional quick-change mount		3 on all versions 6 via optional quick-change mount	4 on all versions 8 via optional quick-change mount	
Spectral range	200 - 2200 nm (astigmatism corrected) up to 20 μm optionally possible			> 185 nm - 20 μm		200 - 2200 nm (astigmatism corrected) up to 20 μm optionally possible
Number of grating turrets	1 Standard up to 3 optionally			2 Standard (1 per stage) 2 x 3 optionally	3 Standard (1 per stage) 3 x 3 optionally	
Number of gratings Standard / max	3 / 9 2 on 150 and 200 mm	3 / 9		6 / 18	9 / 27	
Excitation laser range	213 nm - 1064 nm			> 185 nm		213 nm - 1064 nm
max. System size in cm (L x W x H)	91 x 79 x 99	131 x 79 x 99		70 x 87 x 25 70 x 110 x 25 (incl. Bypass)	114 x 87 x 25 114 x 110 x 25 (incl. Bypass)	Base System 160 - 175 x 140 x 93
Typical weight incl. detectors and accessories	275 kg	350 kg		150 kg	200 kg	500 kg
Power requirements	2 x 230 V / 16 A					3 x 230 V / 16 A