

Technical Data

Optical Specification

	Single-Wavelength			Dual-Band		
	Cora 5100/ Cora 5100 Fiber	Cora 5200/ Cora 5200 Fiber	Cora 5300/ Cora 5300 Fiber	Cora 5500/ Cora 5500 Fiber	Cora 5600/ Cora 5600 Fiber	Cora 5700/ Cora 5700 Fiber
Excitation wavelength [nm]	532	785	1064	532 and 785	532 and 1064	785 and 1064
Spectral range [cm⁻¹]	200 to 3500	100 to 2300	100 to 2300	200 to 3500 for 532 nm 100 to 2300 for 785 nm and 1064 nm		
Resolution (FWHM) [cm⁻¹]	9 to 12	6 to 9	12 to 17	9 to 12 for 532 nm 6 to 9 for 785 nm 12 to 17 for 1064 nm		
Laser power [mW]	50 max	0 – 450 adjustable	0 – 450 adjustable	50 max for 532 nm 0 – 450 for 785 nm and 1064 nm		
Spectograph	f/2; Transmission Volume Phase Grating (VPG)					
Integration time [s]	0.005 – 600	0.005 – 600	0.001 – 20 s	0.005 – 600 for 532 and 785 nm 0.001 – 20 for 1064 nm		
Wavelength calibration	Automatic via software					
Detector array [px]	2048 CCD	2048 CCD	256 InGaAs	2048 CCD for 532 nm and 785 nm 256 InGaAs for 1064 nm		
Detector cooling	no cooling for 532 nm, approx. -5°C for 785 nm and 1064 nm					

Physical and Electrical Specifications

Dimensions (L x W x H)	305 mm x 380 mm x 141 mm (12.0 in x 15.0 in x 5.5 in)
Weight	Approx. 6.35 kg (14 lbs) for Cora 5100 (Fiber)/5200 (Fiber)/5300 (Fiber) Approx. 7.25 kg (16 lbs) for Cora 5500 (Fiber)/5600 (Fiber)/5700 (Fiber)
Power supply	AC 100–230 V, 50/60 Hz, 1 A, DC 15 V, 2.6 A
Power consumption	< 25 W for Cora 5100 (Fiber)/5200 (Fiber)/5300 (Fiber) < 30 W for Cora 5500 (Fiber)/5600 (Fiber)/5700 (Fiber)
Battery (optional)	Lithium ion
A/D Converter	16 bit
Environmental conditions	Indoor use only (according to EN 61010)
Ambient temperature	+0 °C to +40 °C (+32 °F to +104 °F)
Air humidity	0 % to 80 %
Interfaces	1x USB (USB 2.0)
Internal computer	Windows XP 32-bit, 16 GB internal storage
System control	On-board touchscreen or external PC