

Technical Data

Optical Specification

	Cora 7100	Cora 7200	Cora 7200 Deep Cooled	Cora 7300 Deep Cooled
Excitation Wavelength [nm]*	532	785	785	1064
Spectral Range [cm ⁻¹]	100 – 3200	100 – 3200	100 - 2000	200 – 1800
Resolution [cm ⁻¹]	4 – 5	4 – 5	3 – 4	10 – 15
Laser Power [mW]	50	0 – 450 (Adjustable)	0 – 450 (Adjustable)	0 – 450 (Adjustable)
Spectrograph	f/2; Transmission Volume Phase Grating (VPG®)			
Integration Time [s]	0.05 – 600	0.05 – 600	0.05 - 900	0.01 – 30
Wavelength Calibration	Automatic via software			
Detector Array [CCD]	2048 px x 64 px	2048 px x 64 px	2048 px x 64 px	512 px InGaAs
Detector cooling [°C]	approx. - 5	approx. - 5	approx. - 55	approx. - 55

Physical and Electrical Specification

	Cora 7100	Cora 7200	Cora 7200 Deep Cooled	Cora 7300 Deep Cooled
Dimensions [mm (in)]	411 x 426 x 151 (16 x 17 x 6)			
Weight [kg (lbs)]	13 (28.6)	13 (28.6)	15 (33)	15 (33)
A/D Converter	16 bit			
Power Consumption [W]	< 25	< 25	< 75	< 75
Power Input	110...230 VAC, ±10 %, 50/60 Hz, nominal 100 VA			
Main unit fuse	115 Volts: T 2,5 A 250 V / 230 Volts: T 1 A 250 V			

Environmental Conditions

	Cora 7100	Cora 7200	Cora 7200 Deep Cooled	Cora 7300 Deep Cooled
Condition	Indoor/outdoor without raining			
Operating temperature	0 °C to +40°C			
Relative humidity	Up to 80%			
Altitude	Max 2000 meters			

Sampling Options

S	Cora 7100	Cora 7200	Cora 7200 Deep Cooled	Cora 7300 Deep Cooled
Fiber probe	Coaxial, AR-coated, filtered			
Probe vial holder set	insert for vials, tubes, cuvettes			