

Anton Paar - Cora 5001 Raman

Technical specifications

Single-wavelength

Optical specifications

Excitation wavelength	785 nm
Spectral range	100 cm ⁻¹ to 2300 cm ⁻¹
Resolution (according to ASTM E2529)	6 cm ⁻¹ to 9 cm ⁻¹
Laser power	0 mW to 450 mW**, adjustable
Spectrograph	f/2; Transmission volume phase grating (VPG)
Integration time	0.005 s to 600 s
Wavelength calibration	Automatic via software
Detector array	2048 px CCD
Laser class	1 for Direct model 3B for Fiber model

Physical specifications

Dimensions (D x W x H)	355 mm x 384 mm x 168 mm (14.0 in x 15.1 in x 6.6 in)
Weight	9.8 kg
Operating temperature range	10 °C to 35 °C (non-condensing)
Fiber probe dimensions	Cable length: 1.50 m
Battery (optional)	Lithium-ion
Battery run time	>1.5 h
Power supply input	In-line power supply input: 115/230 V AC, 50/60 Hz Car power adapter input: 9 V to 32 V DC
Power consumption	In-line power supply input: max. 100 VA DC input: typical 30 VA (60 VA when optional battery is charged)

Additional specifications

Display	10" touch screen
Data ports	4 x USB 2.0, 1 x Ethernet, 1 x CAN out and 1 x USB to PC
Data export formats	.csv, .txt, .png, .spc, .aps, .pdf
Internal storage	8 GB
Wireless connectivity	Wi-Fi stick (optional)
Spectral libraries	Factory library, user-built, third-party options
Security	User roles with customizable permissions, user password logins

* at laser source

** at sample