

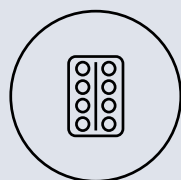
Handheld Raman Spectrometer

Cora 101



Identification in Seconds

The Cora 101 Raman spectrometer delivers clear results in seconds – in the field or in the lab. From suspicious street samples to incoming goods, this spectrometer tests them all, underpinning complex chemistry with confident decisions. No background in chemistry? No problem. Cora 101 empowers you to measure fast and accurately.



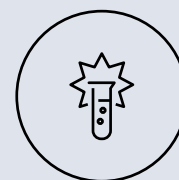
Drugs and narcotics

Cora 101 identifies common narcotics and typical cutting agents, analyzing suspicious powders, tablets, and liquids without opening the package. The result indicates a regulated or legal substance, or a precursor, in seconds. The lightweight instrument is easy to carry during long operations, and one-click focus ensures reliable measurements through plastic bags, glass, or blisters.



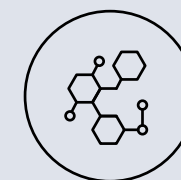
Hazardous substances

Cora 101 helps first responders identify unknown substances when every second counts. Powders, liquids, or residues can be analyzed directly without the need for direct contact, reducing dangerous exposure. Results come in seconds, providing clarity in uncertain situations involving, e.g., spills, leaks, or unlabeled containers. The rugged, lightweight design and simple one-button operation allow confident use with gloves in harsh conditions.



Explosives

Cora 101 enables the safe identification of commercial, homemade, and precursor explosives without direct handling. The instrument can be mounted on a stand, tripod, or robotic arm and operated with a time delay scan, allowing measurements from a safe distance. This minimizes the risk of accidental detonation caused by laser exposure. Clear results appear within seconds, giving inspection teams the information they need to act quickly and safely in critical situations.



Raw materials and final products

Cora 101 supports reliable verification of raw materials, intermediates, and finished products in routine quality control. Substances are identified in seconds by matching their spectra against included or user-created reference libraries, providing clear pass or fail results. Cora 101 combines speed, ease of use, and dependable results to keep production and incoming goods control running smoothly and safely.

Cora 101 Highlights



Cora 101 comes with built-in chemical intelligence for confident substance identification in any situation. Its comprehensive spectral libraries instantly recognize hazardous materials, narcotics, explosives, and chemicals for fast and well-founded decisions.

Fast, reliable identification of unknown substances

Cora 101 quickly delivers clear results, enabling fast decisions under pressure. A sensitive detector ensures a higher identification rate of unknown substances such as narcotics, hazardous materials, or incoming goods without any manual data interpretation. Whether used by police, civil protection services, or for quality control, Cora 101 provides dependable, easy-to-read results in seconds. Each match provides clear substance information, including regulatory status, CAS number, and safety data.

One of the lightest handheld Raman analyzers

At a weight of 590 g, Cora 101 is one of the lightest handheld Raman analyzers on the market. Its compact size and low weight make it effortless to carry and operate during long shifts, even while wearing gloves or protective gear. For police and fire services, this means less physical strain during field operations and easier transport in fully packed vehicles. In quality control, the ergonomic design reduces operator fatigue, ensuring more consistent measurements and fewer handling errors. With Cora 101, portability directly translates into better performance and user comfort.

One-click focus for any container

Changing sample types has never been easier. Cora 101's automatic focus lens adjusts the measurement distance with a single click of a button, eliminating the need to switch between adapters. This saves time and reduces the risk of measurement errors. Whether analyzing through thin plastic bags, thick glass vials, or pill blisters, Cora 101 adapts instantly for optimal results. The seamless focus adjustment enhances flexibility in both field and laboratory environments, keeping your workflow efficient and your results consistently reliable.



Detect What Others Miss – With SERS

The optional Cora 101 SERS kit expands the system's detection capabilities far beyond conventional Raman analysis. It enables the identification of low-concentration fentanyl and heroin samples, as well as trace-level samples or diluted substances that would otherwise go undetected. Designed for practical use, the SERS kit combines high analytical sensitivity with simple, glove-friendly handling. Users benefit from enhanced safety when analyzing unknown or potentially dangerous samples.



	Cora 101
Laser excitation	785 nm
Laser output power	250 mW max output at sample
Spectral range	400 cm ⁻¹ to 2,300 cm ⁻¹
Spectral resolution	10 cm ⁻¹
Detector type	Linear CCD array
Display	Transmissive color TFT with LED backlighting
Software	Embedded Linux
Storage	30 GB memory, more than 100,000 measurements
Connectivity	USB
Battery	Rechargeable Li-ion, more than 12 hours of typical use with more than 500 measurements
Protection class	IP67
Dimensions (L x W x D)	16 cm x 8.5 cm x 2.8 cm (6.3 in x 3.3 in x 1.1 in)
Weight	590 g (1.3 lbs)
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Storage temperature	-30 °C to +50 °C (-22 °F to +122 °F)
Accessories	Point-and-shoot adapter, vial holder, laser aperture cap with polystyrene target for system test, SERS kit
Items included with product	Instrument, watertight case, shoulder strap, USB cable, vials

Reliable. Compliant. Qualified.

Our well-trained and certified technicians are ready to keep your instrument running smoothly.



