

❖ Imaging Raman probe



Changchun New Industries (CNI) imaging Raman probe integrates a standard Raman probe with an imaging optical path into a visual Raman probe. The imaging function displays the laser excitation spot, facilitating alignment of the sampling position. The camera can be connected to a computer via a USB interface.

Featuring a fully solid optical design, it ensures high repeatability in Raman spectroscopy measurements. With a compact optical path, small size, and user-friendly operation, it is suitable for flexible switching between different samples, enabling perfect acquisition of test signals and positions. It can be used in conjunction with lasers, fiber optic spectrometers, and computers, meeting the requirements of both laboratory and industrial field testing. Additionally, custom development is available based on actual customer needs.

Excitation Wavelength	532/785nm (Optional)
Dimensions	85.5×80×38mm, Probe tip 20mm
Material	Probe material is 2A12 after Blackening; Stainless steel probe tip
Fiber	Two single fibers (100 um optical fiber for exciting light, 200 um standard optical fiber for collecting light); N.A.=0.22, metal sheath; Fiber length: 1 m
Coupling System	SMA905 Connectors
Raman shift	150-4500 cm^{-1}
Working Distance	7.5 mm
Operating temperature	0-40°C
Camera Sensor	1/2.7" CMOS, 10bit color depth (true color)
Resolution	up to 1280×1024 pixels
Frame Rate	208.5 fps
Interface	USB port
Field of View	2 mm x 1.5 mm

Dimensions:

