

PORTABLE RAMAN SPECTROMETER PART No. HHL-R550

- Used in the fields of medicine, environmental protection, food, public security, etc.
- Standard database, supports users to add and modify spectrograms
- Analysis of mixture algorithm
- Non-destructive and rapid detection
- Detection records can be exported
- Integrated lithium battery, which can work continuously for 4-6 hours when fully charged



liquid sampling accessory
(included)

HHL-R550

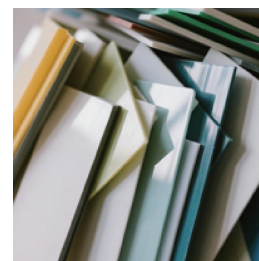
SPECIFICATION

Exciting Laser	central wavelength	785±1nm
	FWHM	0.08nm
	output power	0~500mW
	power stability	$\sigma/\mu < \pm 0.2\%$
Detector	type	ultra-high sensitivity, quick cooling CCD
	refrigeration temperature	14°F
	detecting range	200~1100nm
	effective pixels	2048×64
	dynamic range	50000:1
	pixel size	14μm×14μm
	full well capacity	300Ke ⁻
	sensitivity	QE>40%, 6.5μV/e ⁻
Optical parameters	spectral range	250~2700cm ⁻¹
	resolution	6cm ⁻¹
	entrance slit	50μm
	focusing	98mm
Raman probe	operating distance	6mm
	rayleigh scattering resistance	OD>8
	numerical aperture	0.3
	aperture	7mm
Spectral stability		$\sigma/\mu < 0.5\%$ (8 hours)
Temp stability		spectral shift<1cm ⁻¹ (50~104°F)
Intensity repeatability		≤5%
Frequency shift repeatability		≤1cm ⁻¹
Frequency shift accuracy		≤1cm ⁻¹
Integration time		4ms~120s
Operating system		Android
Interface		WIFI, USB
Working environment		41~104°F, ≤95%RH, no condensation
Storage environment		-4~113°F, ≤95%RH, no condensation
Power supply		19V rechargeable lithium battery
Dimension (L×W×H)		16.93x15.35x6.69"
Weight		20.50lb

applications



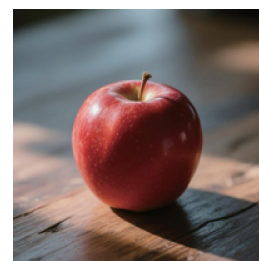
pharmaceuticals



plastics



drugs



foods

STANDARD DELIVERY

Main unit	1 pc
Liquid sampling accessory	1 pc
Solid sampling accessory	1 pc
Power adapter	1 pc

OPTIONAL ACCESSORY

Test adjustment frame	HHL-R550-TS
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