

# Handheld Raman System Comparison Chart

A Full Range of Raman Solutions: Field Portable to Research Grade



System:	NanoRam®		NanoRam®-1064	TacticID®-N Plus		TacticID®-GP Plus	TacticID®-1064	TacticID®-1064 ST
Part #	840000341		840000953	840000994		840000972	840000920	840001134
Model #	BWS456-785		BWS456-1064	BWS496PS-785N		BWS496PS-785GP	BWS492-1064	BWS492-1064ST
Laser Excitation / Power	785nm / 300mW at 100% , adjustable in 10% increments		1064 nm / 420 +/- 30 mW at 100%, adjustable in 10% increments	785nm / 300mW at 100%, adjustable in 1% increments			1064 nm / 420 +/- 30 mW at 100%, adjustable in 1% increments	1064 nm / 450 +/- 30 mW at 100%, adjustable in 1% increments
Spectral Range / Resolution	176 - 2900 cm <sup>-1</sup> / ~9 cm <sup>-1</sup> @ 912nm		176 to 2500 cm <sup>-1</sup> / ~11 cm <sup>-1</sup> @ 1296nm	176 - 2900 cm <sup>-1</sup> / ~9 cm <sup>-1</sup> @ 912nm			176 to 2500 cm <sup>-1</sup> / ~11 cm <sup>-1</sup> @ 1296nm	
Detection	TE-Cooled Linear CCD Array		TE-Cooled InGaAs Array	Linear CCD Array			TE-Cooled InGaAs Array	
Standard Accessories	Point & Shoot, Liquid Vial Holder, Large Bottle Adaptor, Immersion Probe, Polystyrene Validation Cap		Point & Shoot, Vial Holder, Polystyrene Validation Cap, Contact Immersion Probe, Bottle Adaptor, Right Angle Adaptor	Point & Shoot, Liquid Vial Holder, TacPac, Polystyrene Validation Cap	Point & Shoot, Liquid Vial Holder, Right Angle Adaptor, Polystyrene Validation Cap		Point & Shoot, Liquid Vial Holder, Right Angle Adaptor, Polystyrene Validation Cap, Bottle Adaptor	Point & Shoot, Liquid Vial Holder, Right Angle Adaptor, See-through adaptor, Polystyrene Validation Cap, Bottle Adaptor
Optional Accessories	Tablet Holder, Right Angle Adaptor, Shoulder Bag		Large Spot Adaptor	Right Angle Adaptor	TacPac		Large Bottle Adaptor, Contact Immersion Probe,	
Power Adaptor	Rechargeable Li-ion Battery, >5 hrs operation		Rechargeable Li-ion, >4 hrs continuous operation or CR123 battery option	Rechargeable Li-ion Battery >5 hrs operation or CR123 battery option. Car charger available			Rechargeable Li-ion, >4 hrs continuous operation or CR123 battery option. Car charger available	
Libraries	USP Library Included			>1,200 Narcotics, Prescription Drugs, Synthetics, Cutting Agents, Precursors & Solvents	10,000+ Hazardous and Non-hazardous Chemicals, Plus TacticID-N Libraries		13,000+ Narcotics, pharmaceutical drugs, cutting agents, explosives*, precursors, toxic & common chemicals (third party libraries supported). Optional: CWAs*	
Barcode & Camera	Linear and 2D Standards Barcode Reader		1D and 2D standards	5 MP On-board Camera			5 MP On-board Camera and Barcode Reader	
Compliance	21 CFR Part 11 Compliant / IP64 Rated			IP65 Rated			IP68 (MIL STD 810g drop compliant)	
Operation Modes	Investigation Mode: "Match / No Match" (HQI) Identification Mode: "Pass / Fail" (p-value) Mixture Analysis		Investigation Mode: "Match / No Match" (HQI) Identification Mode: "Pass / Fail" (statistical p-value) Mixture Analysis	Scan Mode: "Match / No Match" (HQI) Mixture Analysis			Scan Mode: "Match / No Match" (HQI) Mixture Analysis Touch screen & Hard key input	Scan Mode: "Match / No Match" (HQI) Mixture Analysis See-through mode: ID through packaging Touch screen & Hard key input

**Handheld Raman Services:**

- Library Building
- Method Development

- User Training
- Annual Performance Validations

- Customer Site Application Support
- SOP Templates and Development

\*Note: Libraries may be subject to US Export control to some territories