



NanoRam Handheld Raman Spectrometer

BWT-840000341

The NanoRam is a state-of-the-art, handheld Raman instrument for nondestructive identification and verification of incoming raw materials such as APIs, excipients, and intermediates. Compact and flexible, the NanoRam can be used by non-technical users to rapidly identify samples in the warehouse, on the loading dock, or in the lab, minimizing quarantine areas and expediting materials through the manufacturing lifecycle. Utilizing Raman technology, nondestructive analysis can be performed through transparent containers, maintaining the volume and integrity of the sample.

The NanoRam meets the general requirements of Raman spectroscopy methods, including all the requirements of the US Pharmacopeia General Chapter 858>, European Pharmacopeia 2.2.48, Japanese Pharmacopeia 2.26, as well as the People's Republic of China Pharmacopeia Guidelines on Raman Spectroscopy. Handheld Raman spectrometers support companies in compliance with the PIC/S & GMP guidelines regarding 100% identity assurance for starting materials. The NanoRam is fully compliant with the US FDA 21 CFR Part 11 and Part 1040.10, and can play an integral role in cGMP-compliant facilities. Full training and support services are available, including IQ/OQ/PQ/DQ implementation services as well as method and/or new library development support.

Below, the accessories are grouped into Scope of delivery and Optional accessories.
 Please keep this printout at hand for ordering replacement material.
 These lists may be subject to change.

Scope of delivery BWT-840000341

Qt.	Order no.	Description	
1 PCS	BWT-840000290	NanoRam Battery	
		NanoRam (model BWS456-785 only) Rechargeable lithium-ion battery.	
1 PCS	BWT-840000295	Vials for liquids, 15 mm in diameter	
		Borosilicate glass vials (diameter 15 mm), package of 6, with pouch.	
1 PCS	BWT-840000296	Stylus/pen	
		Stylus/pen combo for touch screens. NR-STY	
1 PCS	BWT-840000298	NanoRam Carrying Case	
		NanoRam hard plastic rugged carrying case.	

1 PCS BWT-840000301 Power Adapter, 12 V DC

Power Adapter 12 V DC; 2.0 A.



1 PCS BWT-840000305 NanoRam ID Software

NID software for use on the PC for NanoRam account management, test result review, access to test reports and the Audit Trail.



1 PCS BWT-840000307 NanoRam Product Manual Set

NanoRam documentation set including Product Manual and NanoRam ID Installation Instructions.

BWTEK
For Plant, Laboratory, Field

NanoRam®



NanoRam®
Handheld Raman System
User Manual

1 PCS BWT-840000329 Pouch for 15 mm Vials

Pouch for 15 mm vials.



1 PCS BWT-840000344 Vial Holder Adapter

Vial holder adapter, compatible with 15 mm-diameter vials.



1 PCS BWT-840000345 Handheld Raman bottle adapter

Handheld Raman accessories: bottle adapter

NR2-BSA



1 PCS BWT-840000347 NanoRam Immersion Probe

Immersion probe – 30.5 cm (12 inch) length – stainless steel with quartz objective.



1 PCS BWT-840000348 Polystyrene Validation Cap

Polystyrene Validation cap with integrated ASTM standard polystyrene.



1 PCS BWT-840000352 LAN cable

LAN cable for connection to PC.



1 PCS

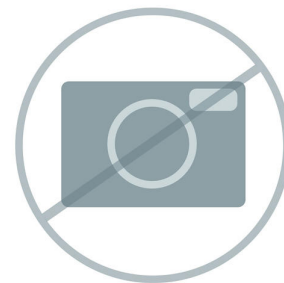
BWT-840000433 O-ring replacement kit for NanoRam instruments

NanoRam O-ring replacement kit – includes: O-rings, ID 9.00 mm, x15; O-Rings, ID 10.00 mm x15; O-rings, ID 13.00 mm x10 for the shaft in handheld Raman instruments.



Optional accessories

Order no.	Description	
BWT-840000294	Battery Charging Cradle	
	Lithium-ion battery charging cradle.(for charging NR-BAT and TID-BAT only).	
BWT-840000346	NanoRam Tablet Holder	
	NanoRam tablet holder adapter.	
BWT-840000349	NanoRam 6 mm Shaft	
	NanoRam (model BWS456-785 only) replacement shaft with objective for sampling adapters – point-and-shoot; vial holder; bottle adapter. Working distance 6 mm.	
BWT-840000350	NanoRam 10 mm Shaft	
	NanoRam Shaft with lens for thick container sampling. Working distance 10 mm.	
BWT-840000353	Shaft Protection Cap	
	Handheld Raman shaft protective cap, package of 10.	



BWT-840000355 NanoRam Leather Shoulder Bag

Leather shoulder bag for NanoRam unit including one NR2-PCH-ADPT pouch for holding accessories.



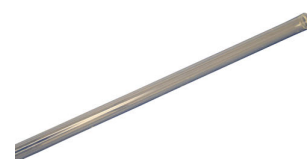
BWT-840000361 Handheld Laser Power Meter

Laser Power Meter, Pen Type, Calibrated. Range: 5 micro-Watts to 1 Watt. Used in OQ/PQ and annual certification laser power measurement.



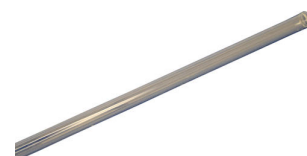
BWT-840000481 NanoRam immersion shaft protective sleeve, package of 49

Disposable, protective sleeve for the NanoRam Immersion Probe model NR2-IMP, package of 49.



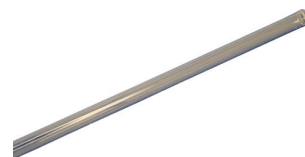
BWT-840000482 NanoRam immersion shaft protective sleeve, package of 490

Disposable, protective sleeve for the NanoRam Immersion Probe model NR2-IMP, package of 490.



BWT-840000655 Sterilized NanoRam Immersion Shaft Protective Sleeve

Sterilized disposable, protective sleeve for the NanoRam Immersion Probe model NR2-IMP; package of 490.



BWT-840000881 NanoRam Contact Probe

NanoRam accessories: 0.5" outer diameter x 150 mm L (5.9") – Raman contact probe accessory for NanoRam. Rugged 316 stainless steel shaft.



BWT-840001154 Shoulder bag for HH Raman Series

Shoulder bag for TacticID series. Constructed with 1000d heavy duty fabric, multiple tactical pouches and compartment designed for rugged use and hard wearing.. Compatible with all TacticID products and NanoRam products. For transportation purposes only.

TID-SBG

