



i-Raman EX Portable Raman Spectrometer

BWT-840001234

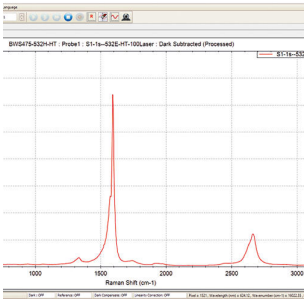
The i-Raman[®] EX is part of our award-winning series of i-Raman portable Raman spectrometers with our patented CleanLaze[®] laser with 1,064 nm laser excitation. Using a high-sensitivity InGaAs array detector with deep TE cooling, high dynamic range, and a high throughput spectrograph design, this portable Raman spectrometer delivers a high signal-to-noise ratio without inducing autofluorescence, making it possible to measure a wide range of natural products, biological samples (such as cell cultures), and colored samples.

The i-Raman EX provides a spectral coverage range from 100 cm⁻¹ to 2,500 cm⁻¹, enabling you to measure across the entire fingerprint region. The system's small footprint, lightweight design, and low power consumption ensure research-grade Raman analysis capabilities at any location. For expanded analysis capabilities, it can be used with our proprietary Vision software as well as BWIQ[®] multivariate analysis software and BWID[®] identification software. With the i-Raman EX, you always have a high precision Raman solution for qualitative and quantitative analysis without fluorescence.

BWS485III

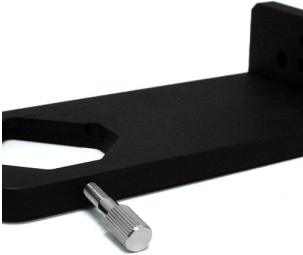
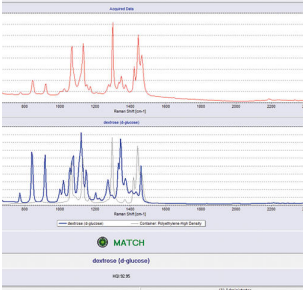
Below, the accessories are grouped into Scope of delivery and Optional accessories.
Please keep this printout at hand for ordering replacement material.
These lists may be subject to change.

Scope of delivery BWT-840001234

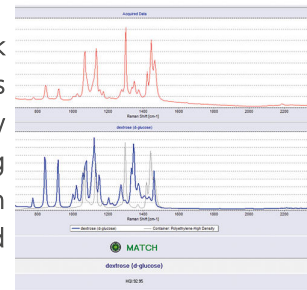
Qt.	Order no.	Description
1 PCS	607510260	High Throughput Lab-grade Raman Probe (1064 nm) High-throughput lab-grade fiber optic Raman probe assembly with trigger button. 1.5 meter fiber length. Compatible with i-Raman NxG 1064.
		
1 PCS	607510040	Polystyrene Validation Cap Validation cap with integrated polystyrene standard for lab-grade Raman probes with shaft diameter of 9.5 mm.
		
1 PCS	67560050	Laser Safety Goggles, 1064 nm Wavelength Laser Safety Goggles, 1064 nm Wavelength.
		
1 PCS	BWT-810000044	BWSpec Software BWSpec [®] is B&W Tek's general spectroscopy software for instrument control and data acquisition, including real-time peak analysis and trending. BWSpec is the operating software included with the purchase of all B&W Tek portable Raman systems and spectrometer products. It is designed with features for broad range applications, performing complex measurements and calculations at the click of a button. It supports
		

multiple data formats and provides the option to optimize measurement parameters, such as integration time and laser output power control. In addition to data acquisition and data processing, it also offers automatic dark removal, spectral smoothing, baseline correction, as well as peak monitoring and trending.

Optional accessories

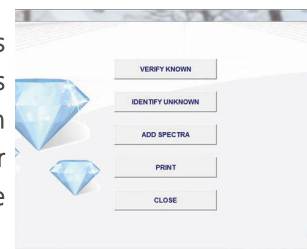
Order no.	Description	
BWT-810000623	Microscope head tripod adaptor	
	BAC151x-TRI tripod adapter for the BAC151x sampling system with Raman video microscope.	
BWT-810000682	External rechargeable battery pack for portable Raman instruments	
	External Lithium-Ion battery that provides constant 12 VDC. (Compatible with the i-Raman-Plus, i-Raman Pro and i-Raman EX models).	
	EBP106	
BWT-840000117	Raman Flow Cell (BAC160-SS)	
	Raman flow-through cell made of stainless steel, for inline Raman measurements of liquid samples by interfacing with standard laboratory probe (9.5 mm diameter; probe is not included in scope of delivery).	
BWT-840000126	BWID Standard Raman ID Software	
	Data acquisition, material identification and reporting software for B&W Tek portable Raman spectrometers to rapidly identify or verify materials based on user-built libraries, proprietary B&W Tek and third-party libraries. Includes system performance tests. One user license provided. Free upgrades included within one year of purchase date.	
BWT-840000127	BWID Pharma Raman ID Software	

Data acquisition and material identification software for B&W Tek portable Raman spectrometers to rapidly identify or verify materials based on user-built libraries, proprietary B&W Tek and third-party libraries. Meets all the requirements of FDA 21 CFR Part 11, including system access security, audit trail of data activities, and system performance tests. One user license provided. Free upgrades included within one year of purchase date.



BWT-840000280 GemID Software

Data acquisition and identification software for the analysis of gemstones and minerals with B&W Tek portable Raman spectrometers. Includes Raman Spectral Library and images of more than 450 gemstones from Gem Expert and Japan Germany Gemmological Laboratory. One user license provided. Free upgrades included within one year of purchase date.



BWT-840000295 Vials for liquids, 15 mm in diameter

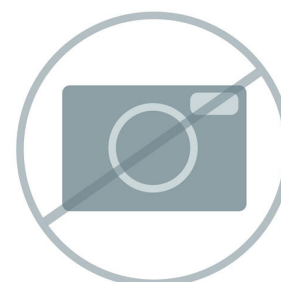
Borosilicate glass vials (diameter 15 mm), package of 6, with pouch.



BWT-840000322 Video Microscope Objective, 10x

Microscope objective, infinity-corrected, 10x, working distance (mm) = 16, focal length (mm) = 20, numerical aperture (NA) = 0.3.

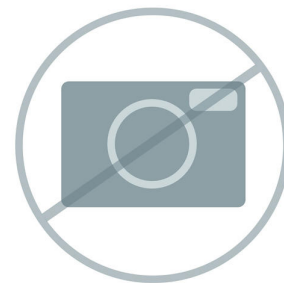
RML110A



BWT-840000325 Video Microscope Objective, 50x (RML150A)

Microscope objective, infinity-corrected, 50x, working distance (mm) = 9.15, focal length (mm) = 4, numerical aperture (NA) = 0.55.

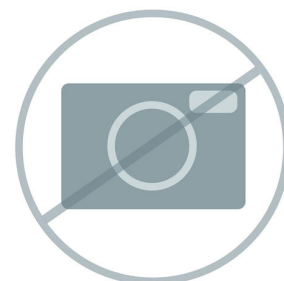
RML150A



BWT-840000328 Video Microscope Objective, 100x

Microscope objective, infinity-corrected, 100x, working distance (mm) = 3.2, numerical aperture (NA) = 0.8, Focal length (mm) = 2.

RML1100A



BWT-840000332 Tablet Holder

Tablet holder compatible with all models of BAC100/BAC102 lab-grade fiber-optic Raman probe with 9.5 mm shaft diameter.



BW840000463 BAC151x probe adapter

BAC151x Probe Adaptor to connect B&W Tek Lab grade Raman probes to BAC151x Video microscope sampling system. Remove the standard shaft and distance regulator, to use the adaptor and connect the probe head to the video microscope. 3 adaptors per pack.



BWT-840000530 Raman Replacement Shaft (1,064 nm)

Replacement shaft for BAC100/102-1064 Raman probe module made of standard stainless steel. Replacement shaft with adhesive-sealed fused-silica window. Working distance 5.9 mm. Shaft diameter 9.5 mm; shaft length 76.2 mm.

RSS100-1064



BWT-840001178 Carrying Case for i-Raman Plus, i-Raman EX and GemRam systems.

Carrying Case for i-Raman, i-Raman Plus, i-Raman EX and GemRam systems. This is black soft carrying case with extendable handle, wheels and custom cut foam (27 to 28" case length) for safe, convenient instrument transport. (Model CCRM-GEMRAM)



BWT-840000843 Raman Gemstone Spectral Library

Raman Gemstone Spectral Library for BWID and portable Raman instruments with > 450 spectra from Gem Expert and from Japan Germany Gemmological Laboratory. Library supported in BWID Version 2.02 or higher.



BWT-840000847 Raman Explosives Spectral Library

Raman Explosives Spectral Library for portable Raman instruments including more than 180 spectra. Supported in BWID Version 2.02 and higher.

Note: This item may be subject to Export control to some territories.



BWT-840000985 Raman Video Micro-Sampling System (1064 nm)

Video microscope sampling system for use with B&W Tek's lab and industrial Raman probes. Includes a 20x objective at a working distance of 16 mm. Offers manual rough and fine adjustment on the X, Y, and Z-axes, coaxial LED illuminator for target alignment, video camera for sample observation, and is compatible with standard microscope objectives. Probe not included, available separately. 1,064 nm configuration.

BAC151C-1064



BWT-840000984 Raman Video Micro-Sampling Head (1,064 nm)

Video microscope sampling system head for use with B&W Tek's lab and industrial Raman probes. With coaxial LED illuminator for target alignment and video camera for sample observation. Compatible with standard microscope objectives. Probe not included, available separately. Objective lens not included, available separately. 1064 nm configuration.



BWT-840000711 Raman Zoom Lens (20-60 mm)

Zoom lens for our BAC100/BAC102 fiber-optic Raman probes. Working distance is adjustable from 20 mm to 60 mm. Suitable for a Raman excitation range from 785 nm to 1064 nm.



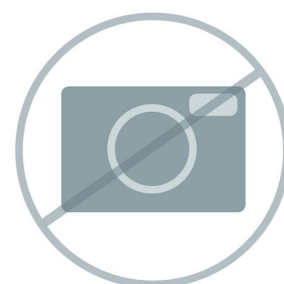
BWT-840000712 Raman Zoom Lens (60-600 mm)

Long-working-distance zoom lens for BAC100/BAC102 fiber-optic Raman probes. Working distance is adjustable from 60 mm to 600 mm. Suitable for a Raman excitation range from 1000 nm to 1100 nm.



BWT-840001123 Bluetooth 1D barcode scanner

Bluetooth 1D barcode scanner for use with BWID software operating a portable Raman instrument



BWT-840001137 Vision 4.1

Vision is data acquisition and method development software solution for spectroscopic analysis and control of B&W Tek portable Raman instruments, Metrohm XDS laboratory and process NIRS instruments. A user-friendly graphical analysis interface enables a simple application of chemometric algorithms for creating identification, qualification, and quantification methods and running them in real-time. With Vision you can store, manage, reprocess and exchange data.

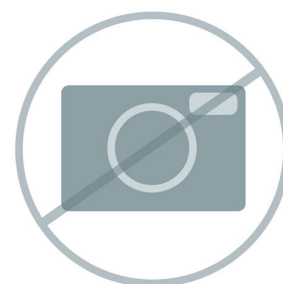


Vision Pharma is data acquisition and method development software solution for spectroscopic analysis and control of B&W Tek portable Raman instruments, Metrohm XDS laboratory and process NIRS instruments. A user-friendly graphical analysis interface enables a simple application of chemometric algorithms for creating identification, qualification, and quantification methods and running them in real-time. With Vision you can store, manage, reprocess and exchange data. Vision Pharma is complies with the US FDA's 21 CFR Pt 11 regulations for electronic signatures and records.



Power cord for EU power for use with portable Raman systems.

BWPC-EU

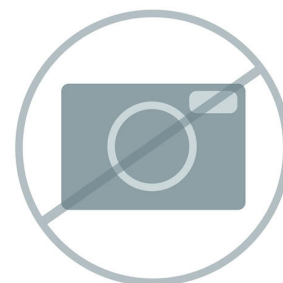


Cleaner for SMA905 and FC/PC connections.



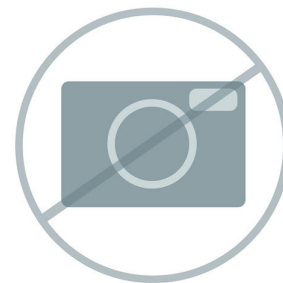
Light shield accessory for STRam.

RST-LS



STRam-1064 nm focus adaptor.

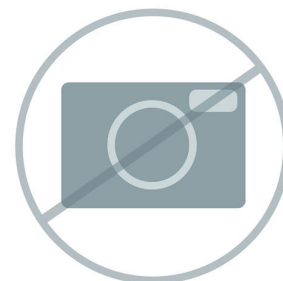
RST-FA-1064



BWT-840001122 Surface regulator for ST probe

Surface regulator for ST probe.

RST-SR



BWT-840001265 BWID Comprehensive Raman Library

BWID Metrohm Comprehensive RamanLibrary - More than 27,700 spectral entries of chemicals, minerals, organic chemicals, solvents, polymers, dyes and pigments, TICs, TIMs, inorganics and organometallics, personal care products, and illicit materials.

PTL-MCRL



BWT-840001305 BWID MCRL - Polymers and Polymer Additives

Metrohm Comprehensive Raman Library (MCRL) Polymers and Polymer Additives for BWID.



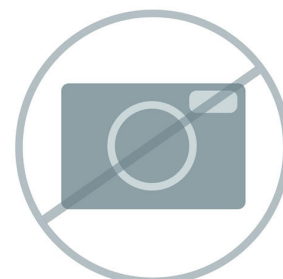
BWT-840001309 BWID MCRL - Dyes, Pigments, and Stains

Metrohm Comprehensive Raman Library (MCRL) Dyes, Pigments, and Stains for BWID.



BWT-840001254 BWID Illicit and General Chemicals Library

BWID library of illicit materials includes drugs, TICs, TIMs, precursors, and general chemicals.



BWT-840001255 BWID CWA Library

Raman Chemical Warfare Agent (CWA) Library for BWID.



BWT-840001264 BWID Comprehensive USP Raman Library

Metrohm Comprehensive USP Raman Library for BWID containing ~ 900 traceable certified items.

