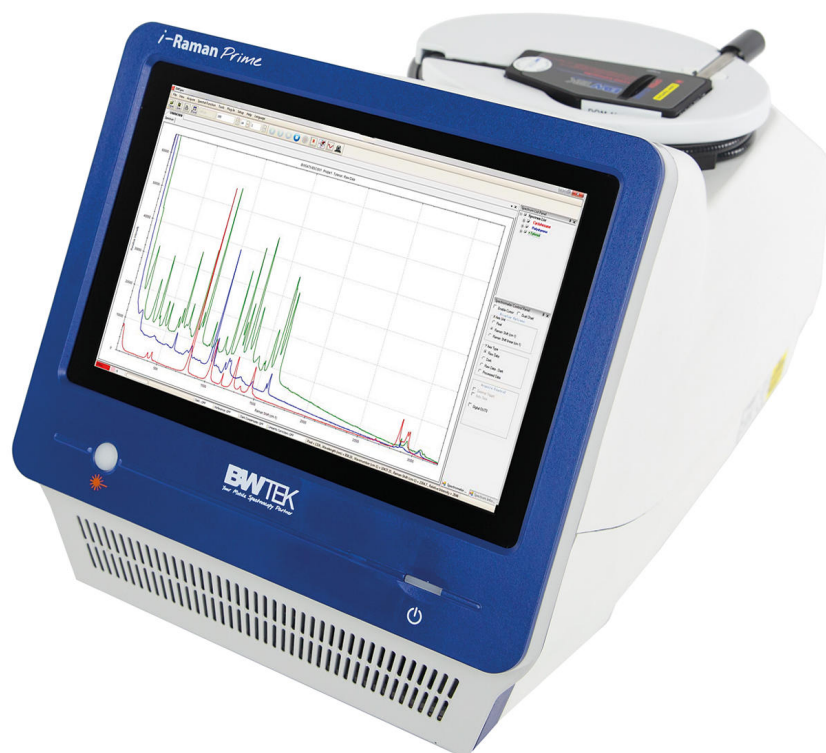




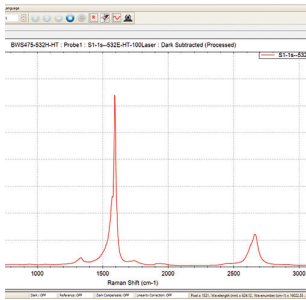
Spettrometro Raman portatile i-Raman Prime 785H

BWT-840000674

i-Raman[®] Prime 785H è un sistema Raman integrato e completo, a ridotto rumore, con portata elevata, Tablet-PC incorporato e una sonda per campione con conduttore ottico. Questo spettrometro Raman portatile utilizza un sensore con array CCD ad elevata efficienza quantica, il raffreddamento termoelettrico (-25 °C) e un intervallo dinamico elevato, così da consentire di eseguire analisi Raman a livello di ricerca, incluse quantificazione e identificazione in tempo reale. La portata elevata garantisce spettri Raman con rapporto segnale-rumore eccezionale e consente di misurare processi rapidi e perfino i segnali Raman più deboli, così da riuscire a rilevare le minime differenze tra i campioni.

Oltre alla struttura pensata per analisi mobili, i-Raman Prime 785H è caratterizzato da una combinazione unica di intervallo spettrale ampio e risoluzione elevata, così da consentire misure da 150 cm⁻¹ fino a 2800 cm⁻¹. i-Raman Prime è utilizzabile con batteria ricaricabile ed è facile da trasportare. Dunque è possibile eseguire analisi Raman di alta precisione e di grande valore, sia dal punto di vista quantitativo che qualitativo, a livello di ricerca, a prescindere dal luogo in cui ci si trova. Il sistema è stato ottimizzato per l'impiego con la nostra tecnologia STRaman[®], per l'analisi attraverso imballaggi non trasparenti.

Parti incluse BWT-840000674

Qt.	Order no.	Descrizione
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.
		
1 PCS	BWT-810000721	Carrying Case for i-Raman Pro/Prime Series
		Carrying Case for i-Raman Pro and Prime series. Includes a soft, black carrying case with wheels and custom-cut foam for packing and safely carrying the i-Raman Pro, i-Raman Prime, STRam, or QTRam. CCRM
		
1 PCS	BWT-840000101	Laser safety goggles (785 nm)
		Laser safety goggles for 785 nm lasers – suitable only for Class IIIB laser systems from B&W Tek
		

1 PCS

BWT-840000289 Portable Raman Instrument Validation Cap

Validation Cap with integrated ASTM-standard polystyrene for use with the BAC100/BAC102 lab-grade Raman Probe with shaft diameter of 9.5 mm.



1 PCS

BWT-840000296 Stylus/pen

Stylus/pen combo for touch screens.

NR-STY



1 PCS

BWT-840000908 High-Throughput Raman Trigger Probe (785 nm)

High Throughput lab-grade fiberoptic Raman probe assembly with hand trigger 105um diameter 0.22NA fiber for 785 nm excitation 300um diameter 0.22NA for Raman pickup, optical density >6; down to 150 cm-1; 1.5 m fiber length terminated in FC/PC on the spectrometer end and FC /PC on the laser end. Adhesive sealed quartz window for non-contact sampling. 5.5 mm working distance. Not for immersive use. This probe is compatible with the i-Raman Prime and STRam Family.

BAC102-785-HT



Accessori opzionali

Order no.	Descrizione
607506480	SERS Discovery Kit

Introductory kit for SERS analysis containing gold and silver P-SERS strips and gold and silver colloids.



BWT-810000389	Raman Cuvette Holder for 9.5 mm measurement probe
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The BCR100A Raman cuvette holder allows you to easily measure Raman spectrum of liquids and powders by attaching a Raman probe to the holder. This accessory part uses an internal mirror with a three-point precision locking mechanism for unmatched reproducibility, thereby increasing the Raman signal up to 3x higher than conventional cuvette holders. It is designed so that the probe shaft does not directly contact the cuvette and includes a light trap to reduce background fluorescence. The BCR100A is available in model versions for probes with a diameter of 9.5 mm or 12 mm and can be used with any standard cuvette of 12.5 mm x 12.5 mm outer diameter (1 cm path length) for sampling liquids or powders.



BWT-810000468	Connection cleaner
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Cleaner for SMA905 and FC/PC connections.



BWT-810000469 Cleaner for ferrule end surfaces

FC/PC and FC/APC receptacle cleaner recommended for i-Raman Pro /Prime, STRam, QTRam. Do not use on SMA.

FRC



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).

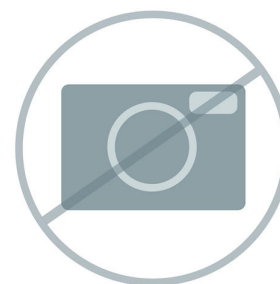
EBP106



BWT-810000719 Power cord for EU power for use with portable Raman systems

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

BWPC-EU

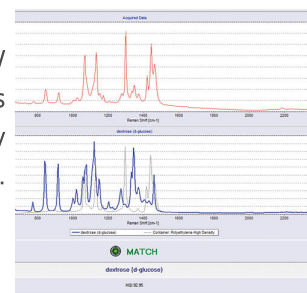


Raman flow-through cell made of stainless steel, for inline Raman measurements of liquid samples by interfacing with standard laboratory probe (9.5 mm diameter; probe is not included in scope of delivery).



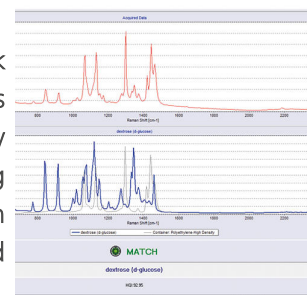
BWT-840000126 BWID Standard Raman ID Software

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.



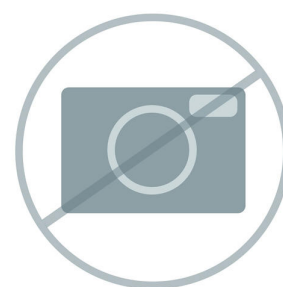
BWT-840000127 BWID Pharma Raman ID Software

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.



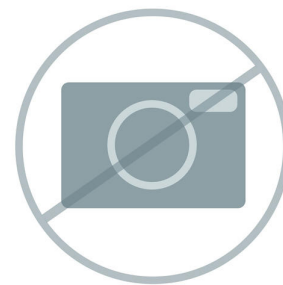
BWT-840000130 Immersion shaft for portable Raman instruments

Optional immersion shaft for BAC100/BAC102 Raman probes with an excitation wavelength of 532 nm or 785 nm. Equipped with a 76.2 mm long body made of 316L stainless steel with an outer diameter of 12.0 mm and a silica window that is sealed with an O-ring made of perfluoro rubber. Operating distance 5.0 mm in air. Can be used at -55 °C to 200 °C. The seal is liquid-tight at low pressure (< 1 bar).



BWT-840000131 Immersion shaft for portable Raman instruments

Optional immersion shaft for BAC100/BAC102 Raman probes with an excitation wavelength of 532 nm or 785 nm. Equipped with a 76.2 mm long body made of 316L stainless steel with an outer diameter of 12.0 mm and a sapphire-glass window that is sealed with an O-ring made of perfluoro rubber. Operating distance 5.0 mm in air. Can be used at -55 °C to 200 °C. The seal is liquid-tight at low pressure (< 1 bar).



BWT-840000136 Raman replacement shaft (785 nm)

Replacement shaft for BAC100/102-785 Raman probe assembly made of stainless steel. Replaceable shaft with adhesive sealed fused silica window. Operating distance 5.5 mm. Shaft diameter 9.5 mm, shaft length 76.2 mm.



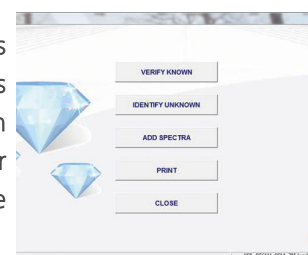
BWT-840000140 Raman Flow Cell (BAC160-Ti)

Raman flow-through cell made of titanium, 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-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-840000287 Vial Holder Adapter

Vial holder adapter for use with the BAC100/BAC102 lab-grade Raman Probe with 9.5 mm shaft diameter. Compatible with vials with a diameter of 15 mm. Shipped with 6 vials made from borosilicate glass (15 mm).



BWT-840000295 Vials for liquids, 15 mm in diameter

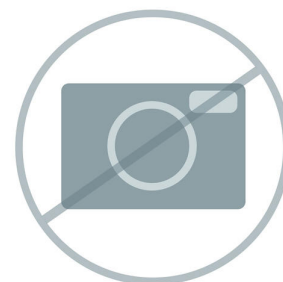
Borosilicate glass vials (diameter 15 mm), package of 6, with pouch.



BWT-840000322 Video Microscope Objective, 10x

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

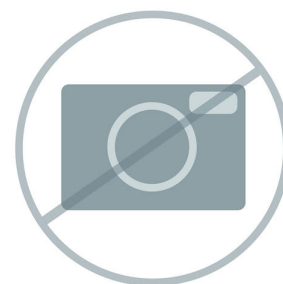
RML110A



BWT-840000323 Video Microscope Objective, 20x (RML120A)

Microscope objective, infinity-corrected, 20x, working distance (mm) = 12, focal length (mm) = 10, numerical aperture (NA) = 0.4.

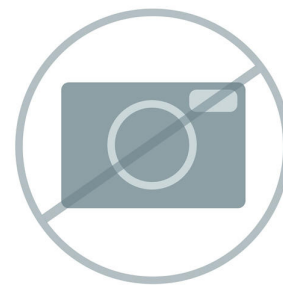
RML120A



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.

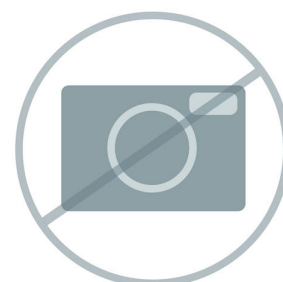
RML150A



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.



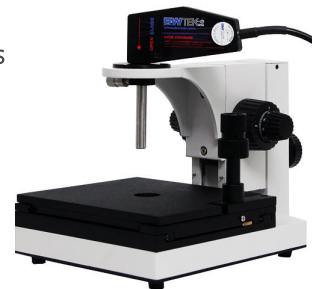
BWT-840000361 Handheld Laser Power Meter

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



BWT-840000395 Raman Probe Holder

Probe holder for use with B&W Tek's lab-grade Raman probes. Provides manual coarse and fine XYZ adjustments.



BWT-840000463 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-840000609 Enclosure for Raman sampling system

Enclosure for Raman sampling system (i.e. microscope, probe holder) used to eliminate direct ocular and/or skin exposure from the laser emission. The enclosure is ergonomically designed to facilitate sample loading and system operation. For use with 532, 785 and 1064 nm wavelengths.



BWT-840000679 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 500 nm to 850 nm.



BWT-840000680 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 500 nm to 850 nm.



BWT-840000681 Raman Stand-off Lens (0.6-6 m)

A telescope Stand-off lens for BAC100/BAC102 fiber-optic Raman probes. Wide zoom range for sample measurement ranges from 0.6 meters to 6 meters. Suitable for a Raman excitation range from 500 nm to 850 nm.

RTS202-VIS-NIR



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-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-840000910 ST Probe

Lab-grade Raman fiber-optic probe module for analyses through packaging, with hand trigger, 105 μm diameter, 0.22 NA fiber for 785 nm excitation, 300 μm diameter, 0.22 NA for Raman pickup, optical density >6; up to 150 cm^{-1} . 1.5 m fiber cable with FC/PC connector on the spectrometer end and FC/PC connector on the laser end. Adhesive sealed quartz window. Not for immersive use. Accessories included: Focus adapter, surface regulator, calibration cap.



BWT-840000934 Polystyrene Reference for QTRam

Polystyrene reference for QTRam.

QTR-PCC



BWT-840000935 Polystyrene Reference for STRam

STRam probe polystyrene reference.

BAC10x-ST-PCC



BWT-840000940 QTRam Optics and Sample Holder Set – 2 mm

Set of 2 mm excitation aperture, collection aperture, large round sample holder and large square sample holder for QT-Sampler.



BWT-840000941 QTRam Optics and Sample Holder Set – 4 mm

Set of 4 mm excitation aperture, collection aperture, large round sample holder and large square sample holder for QT-Sampler.



BWT-840000942 QTRam Optics and Sample Holder Set – 6 mm

Set of 6 mm excitation aperture, collection aperture, large round sample holder and large square sample holder for QT-Sampler.



Set of 8 mm excitation aperture, collection aperture, large round sample holder and large square sample holder for QT-Sampler.



BWT-840000961 Raman Video Micro-Sampling System (785 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. 785 nm configuration.



BAC151C-785

BWT-840000963 Raman Video Micro-Sampling System (532/785 nm dual)

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. Dual 532/785 nm configuration.



BAC151C-532/785

BWT-840000964 Raman Video Micro-Sampling Head (785 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. 785 nm configuration.

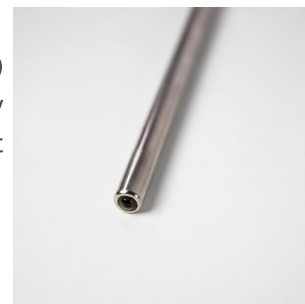


Video microscope sampling system head for use with B&W Tek's lab and industrial Raman probes. With coaxial LED illuminator for target alignment and video camera for sample observation. Compatible with standard microscope objectives. Probe not included, available separately. Objective lens not included, available separately. Dual 532/785 nm configuration.



BWT-840001084 Industrial Raman immersion shaft (Hastelloy) for standard B&W Tek Raman probes (785 nm). RIS101-HS-785

Raman immersion shaft for standard B&W Tek Raman probes (BAC102) with excitation wavelength 785nm. Features a 0.5" O.D. x 11" L Hastelloy C-276 shaft and a gold sealed sapphire ball lens. Contact shaft and shaft operating temperature is ~250 degree C, shaft seal pressure is 6000psi.



BWT-840001085 High-Throughput Raman Trigger Probe (785 nm) with 5m fiber length

High Throughput Lab grade fiberoptic Raman probe assembly with hand trigger 105um diameter 0.22NA fiber for 785 nm excitation 300um diameter 0.22NA for Raman pickup, optical density >6; down to 150 cm-1; 5.0m fiber length terminated in FC/PC on the spectrometer end and FC /PC on the laser end. Adhesive sealed quartz window for non-contact sampling. 5.5 mm working distance. Include one set of 5M Remote Interlock/Emission Indicator Plug. Not for immersive use. This probe is compatible with the i-Raman Prime and STRam family.



BWT-840001087 High-Throughput Raman Trigger Probe, E-grade (785 nm)

High Throughput lab-grade fiber-optic Raman probe assembly cut-on start from 65 (up to 70) cm^{-1} and hand trigger; with hand trigger 105 μm diameter 0.22 NA fiber for 785 nm excitation 300 μm diameter 0.22 NA for Raman pickup, optical density > 6; 1.5 m fiber length terminated in FC /PC on the spectrometer end and FC/PC on the laser end. Adhesive sealed quartz window for non-contact sampling. 5.5 mm working distance. Not for immersive use. This probe is compatible with the i-Raman Prime 785 family only.

BAC102-785E-HT



BWT-840001119 Focus adaptor

STRam 785 nm focus adaptor.

RST-FA-785



BWT-840001120 Light shield accessory for STRam

Light shield accessory for STRam.

RST-LS



BWT-840001122 Surface regulator for ST probe

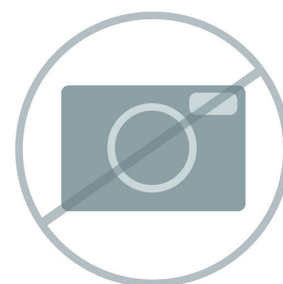
Surface regulator for ST probe.

RST-SR



BWT-840001123 Bluetooth 1D barcode scanner

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



BWT-840001136 Vision Pharma 4.1

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 compliant with the US FDA's 21 CFR Pt 11 regulations for electronic signatures and records.



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.



BWT-840001177 Aperture Removal Tool

Aperture removal tool for easy interchanging different apertures for optimal Raman spot size for transmission Raman with QT-Sampler.

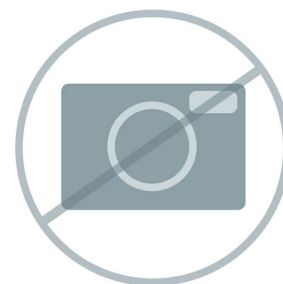
TOOL-APERTURE



BWT-840001202 Hastelloy immersion shaft for 785nm Raman probe

RIS100-HS-785-08: Hastelloy immersion shaft for BAC102/BAC100B Raman probes with excitation wavelength 785nm. Features a 0.5" (12.7 mm) O.D. x 8" (203.2 mm) L Hastelloy C-276 shaft and a gold- sealed sapphire ball lens. Working distance 0.4 mm in air, 0.6 mm in water. Shaft operating temperature is up to 250 degrees C, pressure up to 4000 psi. Shaft must be purchased with B&W Tek Raman probe.

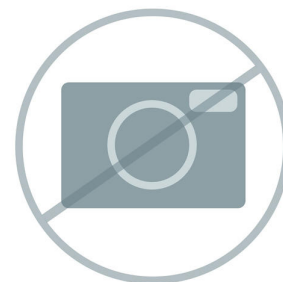
RIS100-HS-785-08



BWT-840001203 Stainless steel immersion shaft for 785 nm Raman probe

RIS100-SS-785-08: Stainless steel immersion shaft for BAC102/BAC100B Raman probes with excitation wavelength 785nm. Features a 0.5" (12.7 mm) O.D. x 8" (203.2 mm) L stainless steel shaft with an epoxied sapphire ball lens. Working distance 0.5 mm in air, 0.8 mm in water. Shaft operating temperature is up to 200 degrees C, pressure up to 4000 psi. Shaft must be purchased with B&W Tek Raman probe.

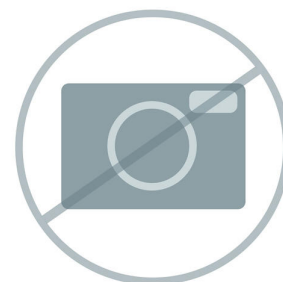
RIS100-SS-785-08



BWT-840001212 High throughput lab-grade fiber optic Raman probe

BAC100B-785-HT: High Throughput lab-grade fiberoptic Raman probe assembly; 105µm diameter 0.22NA fiber for 785 nm excitation 300µm diameter 0.22NA for Raman pickup, optical density >6; down to 150 cm-1. 304SS shaft has 0.371" (9.5 mm) diameter and 3" (76.2 mm) L. The 1.5 m fiber is terminated in FC/PC on the spectrometer end and FC/PC on the laser end. Adhesive-sealed quartz window for non-contact sampling. 5.5 mm working distance. Max. operating temperature is 80 degrees C. Not for immersive use. This probe is compatible with the i-Raman Prime, PTRam, and STRam Family.

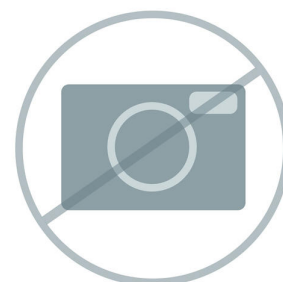
BAC100B-785-HT



BWT-840001240 Polystyrene validation cap for ball lens probe shaftsIMPS-PCC

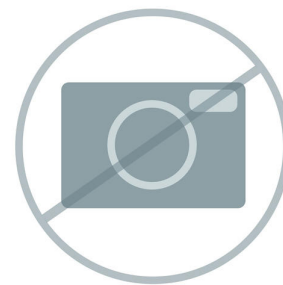
Polystyrene validation cap for system performance testing for ball lens probe shafts. Compatible with Raman fiber optic probes with a 0.5" O.D. shaft and a ball lens.

IMPS-PCC

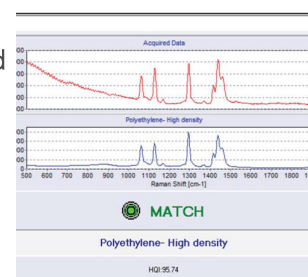


High-throughput lab-grade fiberoptic Raman probe assembly with 5 m fiber length. This probe assembly is comprised of 105um diameter 0.22 NA fiber for 785 nm excitation 300um diameter 0.22NA for Raman pickup, optical density >6; down to 150 cm⁻¹; and 5.0 m fiber length with FC/PC termination on both the spectrometer end and the laser end. The probe shaft is not for immersive use, with an adhesive sealed quartz window for non-contact sampling and 5.5 mm working distance. The probe shaft is replaceable, and options for use in different conditions are available. This probe is compatible with the i-Raman Prime 785 and PTRam family.

BAC100B-785-HT-5M



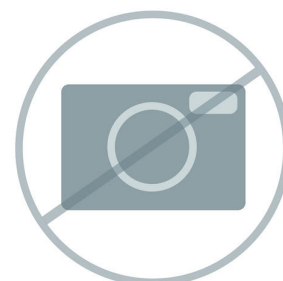
BWID library of illicit materials includes drugs, TICs, TIMs, precursors, and general chemicals.



Raman Chemical Warfare Agent (CWA) Library for BWID.



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



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-840001283 QT-Sampler

The QT-Sampler is an accessory for transmission Raman measurements, enabling content uniformity testing of pharmaceutical tablets. Compatible with i-Raman Prime 785S and H models. Apertures and sample holders are sold separately.



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.

