



MARQMETRIX®

MEASUREMENT MADE SIMPLE

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PROXIMAL BALLPROBE® HV (100mm)

A powerful probe for in-motion sampling



SUPERIOR SIGNAL FOR FAST DATA ACQUISITION

The MarqMetrix® Proximal BallProbe® HV (High-Volume) is our affordable, non-contact solution for demanding biopharma, pharma, food & beverage, and hazardous chemical applications that require the testing of very heterogeneous samples or large numbers of moving samples.

The Proximal BallProbe HV's long working distance (100mm) can rapidly analyze in-motion samples on conveyor belts or rotating drums. The probe is also effective for use through barriers such as windows, vials, and bags. Analysis is done without ever coming into contact with the sample.

There is no need to sacrifice range to achieve large volume Raman sampling: when coupled to a MarqMetrix All-In-One Process Raman System, the HV Probe offers a full spectral range of 100-3250cm⁻¹. Accurate and reproducible analysis results in better real-time decision-making and improved process control.

INCREASE YOUR SAMPLING AREA

A large beam spot (3.5mm) increases the sampling area, resulting in an averaging effect when used on heterogeneous and moving samples. In addition to a large spot size, this probe has a large depth of field, that provides effective measurement of samples of variable size and/or surface thickness.

The simplicity of use allows non-specialists to collect high-quality data

FEATURES & BENEFITS

- Non-contact analysis of:
 - Samples in motion
 - Samples with variable surface relief
 - Samples with uneven packaging (e.g. pellets)
- 100mm working distance for measurement through windows, vials, and bags
- Large sampling area (3.5mm)

APPLICATIONS

- Biopharmaceutical manufacturing
- Pharmaceutical manufacturing
- Polymer and plastics processing
- Food and beverage processing
- Hazardous chemical applications



For more information contact:

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The power of Raman, the simplicity of MarqMetrix

Visit MarqMetrix.com



PROXIMAL BALLPROBE® HV

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The probe is quick and easy to swap when used with the MarqMetrix InterXc fiber head.

When combined with the MarqMetrix All-In-One, the HV probe offers higher performance and full spectral range with accurate, precise and reproducible results.

TECHNICAL DETAILS

Specifications

Standard Probe Length	3.0in. (76.2mm)
Sample Working Distance	100mm (10cm)
Continuous Operating Temperature Range	-20 to 100°C
Beam Spot Size	3.5mm
Compatible Wavelengths	500-1100nm

Materials of Construction

Probe Dimensions	0.56in. (14.2mm) OD Stainless Steel
Optics	12.5mm diameter optical glass
Sealing Materials	High temperature composite adhesive

Operating Conditions

Proximal BallProbe HV is intended for use in non-contact sampling, but will withstand intermittent immersion in mild chemical solutions



High performance optic allows analysis through packaging

Optical Properties

3.5 mm large beam diameter focus; 100mm working distance

Inquire for custom working distance Proximal BallProbe end optics

Related Products

Proximal BallProbe® (8mm) - designed for non-contact sampling

Performance BallProbe® - designed to withstand moderate chemical environments in laboratory and industrial settings

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8035 v1.0

U.S. Patent No. 6,977,729 B2

