



MarqMetrix All-In-One Process Raman Analyzer

Enabling accurate, real-time results for process monitoring

System overview

The Thermo Scientific™ MarqMetrix™ All-In-One Process Raman Analyzer is a compact and portable Raman spectrometer. This all-in-one system is purpose-built for rapid deployment, ease of use, and scalability in markets where time-to-results is critical.

The MarqMetrix All-In-One Process Raman Analyzer offers:

- Analysis without sample preparation, delivering Raman spectral results in real time
- Easy setup and deployment by non-spectroscopists
- Nondestructive workflows to protect precious samples
- Noninvasive handling to minimize contamination of samples
- Small footprint for convenient deployment
- Factory calibration for hardware stability and portability

With the MarqMetrix All-In-One Process Raman Analyzer, businesses can conduct real-time, nondestructive analysis without the need for sample preparation. This analyzer makes precise and accurate measurements simple to execute and understand with its one-button hardware and easy-to-use software.

The MarqMetrix All-In-One Process Raman Analyzer is designed for out-of-the-box use, enabling you to collect highly accurate Raman measurements in less than 15 minutes. Pack this analyzer in a protective case and take it to the point of need, as its factory calibration ensures continuous and precise analysis on the go. The MarqMetrix All-In-One Process Raman Analyzer can be easily integrated into your existing process and eliminates the need for costly technical expertise.

MarqMetrix All-In-One Process Raman Analyzer specifications

Performance	
Excitation wavelength	785 nm
Excitation power	100–450 mW
Detector	Thermally stabilized CCD (2-stage TEC)
Spectral range	100–3,250 cm^{-1}
Resolution	6.5 cm^{-1} average across spectral range
RMS dark noise	≤ 16.5 counts at 10 sec integration
Physical properties	
Size	H: 7.7 cm W: 25 cm D: 25 cm
Fiber conditions	FC/PC (both excitation and collection)
Probe	Fiber BallProbe™ sampling optic
Mounting options	Stackable
Operating temperature range	15°C to 30°C
Operating humidity range	Noncondensing
Included peripherals	Wireless mouse, HDMI cable, and monitor
Product safety	
Safety features	Keyed laser interlock switch Electronic laser trigger
Laser certification	Class 3B laser device Reported to the FDA
Electrical properties	
Input voltage	90–264 VAC 50–60 Hz
Operating voltage	12 VDC, 2 A
Onboarding control system	
Software	MarqMetrix All-In-One Process Raman Analyzer Raman suite
Operating system	Integrated PC (Microsoft™ Windows™ 10 operating system)
Onboard storage	1RJ-45 Ethernet port 3 USB 3.0
Video output	1 DisplayPort™ 1.1 interface (VGA, DVI, or HDMI with adapter)

Product Ordering Information

Description	Cat. No.
MarqMetrix All-In-One Process Raman Analyzer	
Thermo Scientific Marqmetrix All-In-One Process Raman Analyzer (Base)	912A1258
Interchangeable FiberHeads with LED	
Interchangeable FiberHead (standalone, no BallProbe)	840-399800
Interchangeable FiberHead with BioReactor BallProbe 220mm Flanged	840-398300
Interchangeable FiberHead with BioReactor BallProbe 120mm	840-398400
Interchangeable FiberHead with BioReactor BallProbe 220mm	840-398500
Interchangeable FiberHead with 1/2" Performance BallProbe	840-399700
Interchangeable FiberHead with 1/4" BallProbe	840-400200
Interchangeable FiberHead with 1/8" BallProbe	840-400300
Interchangeable FiberHead with 1/2" Process BallProbe	840-400700
Interchangeable FiberHead with 3/8" Process BallProbe	840-400800
Interchangeable FiberHead with Low-Pressure FlowCell (gold seal)	840-399900
Interchangeable FiberHead with Low-Pressure FlowCell (Kalrez seal)	840-400000
Interchangeable FiberHead with Med-Pressure FlowCell (gold seal)	840-400100
Interchangeable FiberHead with Proximal HV BallProbe (100mm working distance)	840-400400
Interchangeable FiberHead with Proximal HV BallProbe (47mm working distance)	840-400500
Interchangeable FiberHead with Proximal BallProbe (8mm working distance)	840-400600
Interchangeable FiberHead with 1/2 in High Throughput Probe	840-404900
Interchangeable FiberHead with 1/4 in Process BallProbe	840-405100
FiberHeadSU with Single-use BioReactor BallProbe	840-400900

Service Plan Ordering Information

Plan Description	Cat. No.
Basic Depot Extended Warranty, 1 Year	701-062034



Learn more or request a demo at thermofisher.com/marqmetrixai0

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