GALAXY SCIENTIFIC

QuasIR™ 2000 Fiber Optic FT-NIR

Portability without Compromise

- High Performance
- Compact and portable
- Easy-to-use
- Suitable for the road, lab, or factory
- Low cost of ownership and maintenance
- Online or point-of-need
- Direct calibration transfer
- Rugged, insensitive to vibration
- Wide operating temperature range
- Flexible, easy-to-use software
- Universal SMA 905 fiber connection
- Instrument-to-instrument consistency

Versatility

The QuasIR™ 2000 offers a new kind of NIR analysis solution. Its portable design brings NIR directly to the point-of-need and its unmatched spectroscopic performance delivers the fastest, most accurate results.

Consistency

The QuasIR™ 2000 is engineered to ensure direct calibration transfer without the frustration of standardizing instruments or adjusting models to accommodate excessive instrument variability. The heart of the QuasIR™ 2000 is our PermAlign™ optics technology, an innovative optical design that maintains alignment and performance under conditions from the routine to the extreme. Our technology and design ensure unmatched consistency and direct methods transfer with no loss in performance so you can expand your QuasIR™ fleet with confidence.

Innovation

The QuasIR™ 2000 offers many technical innovations such as: PermAlign™ interferometer optics; industry leading sampling accessory designs; networked fleet management; and new concepts in software and algorithms such as our Advanced-ID™ software for low concentration targeted screening.

Key Applications:

Food Processing/Authentication

Polymers and Plastics

Chemicals/Refining

Pharmaceuticals

Universal Connection & Novel Probe Design

The QuasIR™ 2000 has two standard SMA 905 connectors, making it commercially compatible with standard probes. It can also combine with fiber coupled collimators, transmission cells, multiplexers, and other accessories.

Our unique probe design utilizes a reproducible fiber layout, increasing the consistency between probes. Apart from six fibers at the edges, the layout ensures that all the launch fibers are surrounded by collection fibers. This maximizes the amount of reflected light collected by the probe. The number and diameter of the launch fibers was designed to throughput match the interferometer, maximizing performance.

The probe also comes with an adjustable stand and sample platform, so it can be modified to suit application needs. The probe stand has a folding design for portability, and non-slip feet for stability.

Ideal for Field, Lab, or Online

At just 35.5 x 24.1 x 14.5cm and less than 8.2 kg, the QuasIR™ 2000 is made for analysis on-the-go. The QuasIR™ 2000 fits conveniently into its hard travel case. The carrying case contains everything you need to operate the system.

The small size and light weight also make the QuasIR™ 2000 easy to install in your lab or integrate into your factory process. Its robust design means virtually no downtime for maintenance or repairs.

The QuasIR™ 2000 can operate from mains power (110 - 240 VAC), battery (12V, 3A), or vehicle power (12V, 3A). This gives you the capability to power the QuasIR™ 2000 anywhere you need it.

General Specification	Value
Dimensions	35.5 x 24.1 x 14.5cm (W x D x H)
Weight	< 8.2 kg
Communication	USB
Operating Temperature	0 - 40°C
Enclosure Protection	IP55
Laser Life	> 10 years
NIR Source Life	> 20,000 hours, user replaceable

Performance Specifications	Value
Wavelength Range	12,800 - 4,000cm^{-1}
Spectral Resolution	Better than 4cm^{-1}
Wavelength Accuracy	< 0.1cm-1 @ 7181.68cm^{-1}
Wavelength Repeatability	< 0.05cm-1 @ 7181.68cm^{-1}
Photometric Accuracy	Better than 0.1% T
Noise	Better than 20 micro au

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