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HYPERSPECTRAL REFLECTANCE IMAGING SYSTEM

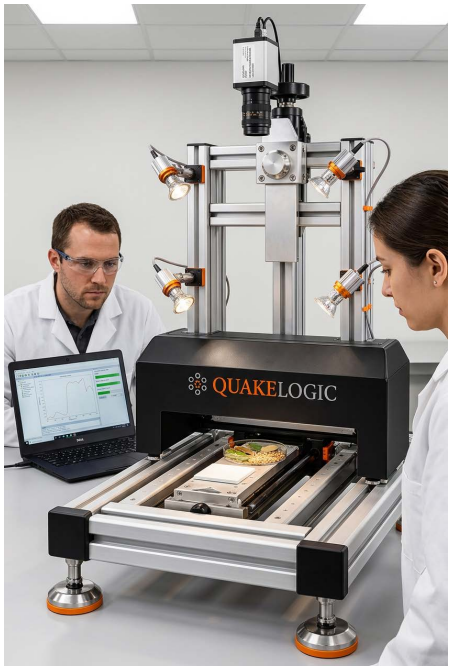


QL-HyperBench Reflectance System

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Hyperspectral Reflectance Imaging System





BENCHTOP HYPERSPECTRAL REFLECTANCE IMAGING PLATFORM

The QL-HyperBench Reflectance System is a benchtop platform for reflectance imaging with the QL-HyperSpec VNIR and SWIR cameras. It pairs a linear scanning stage and tower with an eight-fixture halogen lighting assembly, a white calibration reference, and bundled acquisition and analysis software. Built for laboratory researchers, it ships complete with power supplies, cables, a package laptop, U.S.-compatible power connections, virtual training, and remote technical support.

- Fully integrated platform bundles scanning stage, lighting, calibration reference, software, and laptop, so users move from unboxing to data collection without sourcing third-party components.
- Included acquisition and analysis software with radiometric and dark-current correction delivers calibrated reflectance data without additional licensing or external processing tools.
- Remote virtual training continues until users independently complete the data-collection workflow, reducing onboarding time and dependence on vendor site visits.
- Three-year system warranty with remote technical support protects the investment and keeps acquisition, software, and troubleshooting assistance available throughout the service life.

STANDARD FEATURES »

- Linear Scanning Stage
- Scanning Tower
- Eight-Fixture Halogen Lighting
- White Calibration Board
- Acquisition Software
- Analysis Software
- Operating Licenses
- MEAN WELL Power Supply
- Communication Cables
- Connection Cables
- U.S. Power Cord
- Package Laptop
- Operating Manuals
- Training Materials
- Virtual Training
- Remote Technical Support

Key Features

- Linear scanning stage with tower carries the QL-HyperSpec camera over the sample, producing consistent push-broom reflectance scans for repeatable laboratory imaging.
- Eight-fixture halogen lighting assembly delivers uniform broadband illumination across the scan field, supporting accurate VNIR and SWIR reflectance capture.
- Compatible with both QL-HyperSpec VNIR and QL-HyperSpec SWIR cameras, letting one platform serve visible-to-shortwave infrared imaging workflows.
- White calibration board provides the reflectance reference needed to normalize each scan for quantitative, comparable spectral measurements.
- Bundled acquisition software operates the supplied camera and scanning system end to end, removing the need for separate control packages.
- Data analysis software processes hyperspectral cubes, giving researchers an integrated path from raw scan to analyzed spectral data.
- Radiometric and dark-current correction tools in the supplied software convert raw sensor output into calibrated reflectance imagery.
- Universal-input power supply with switch-selectable 90–132 or 180–264 VAC and U.S.-compatible cord simplifies deployment in standard laboratory power environments.
- Package laptop with 16-inch touchscreen, 64 GB RAM, and 512 GB SSD arrives configured for acquisition and processing out of the box.

PRODUCT FEATURES

Imaging Cameras
QL-HyperSpec VNIR and QL-HyperSpec SWIR compatible · Push-broom reflectance scanning

Scanning Assembly
Linear scanning stage with tower

Illumination
Eight-fixture halogen lighting (standard) · Six-fixture configuration available on request

Calibration
White calibration reference board included · Radiometric and dark-current correction

Software
Acquisition software for camera and stage · Hyperspectral data analysis software · Required operating licenses included

Power
MEAN WELL LRS-350-24 supply · 24 VDC, 14.6 A output · U.S.-compatible cord and plug

For more information about the features, specifications, and available configurations of the QL-HyperBench Reflectance System, please contact QuakeLogic.

SYSTEM CONFIGURATION

COMPONENT	CONFIGURATION
Scanning Assembly	Linear scanning stage with tower
Illumination	Eight-fixture halogen lighting assembly
Calibration Reference	White calibration board
Acquisition Software	Included, camera and stage control
Analysis Software	Included, hyperspectral processing
Power Supply	MEAN WELL LRS-350-24, 24 VDC
Package Computer	Laptop, 16-in touchscreen, 64 GB RAM, 512 GB SSD

OPTIONAL FEATURES & ACCESSORIES

SIX-FIXTURE LIGHTING

Alternative six-fixture halogen illumination configuration supplied in place of the standard eight-fixture assembly upon request.



TECHNICAL SPECIFICATIONS

SPECIFICATION	DESCRIPTION
System Type	Benchtop hyperspectral reflectance imaging platform
Camera Compatibility	QL-HyperSpec VNIR and QL-HyperSpec SWIR
Scanning Assembly	Linear scanning stage with tower
Standard Illumination	Eight-fixture halogen lighting assembly
Alternative Illumination	Six-fixture configuration (on request)
Calibration Reference	White calibration board included
Data Acquisition Software	Included, camera and stage operation
Data Analysis Software	Included, hyperspectral processing
Software Licenses	Required operating licenses included
Correction Functions	Radiometric and dark-current correction
Power Supply	MEAN WELL LRS-350-24
Rated Output	24 VDC, 14.6 A
AC Input Range	90–132 VAC or 180–264 VAC (switch-selected)

SPECIFICATION	DESCRIPTION
Input Frequency	47–63 Hz
U.S. Operating Configuration	120 VAC, 60 Hz
Power Connection	U.S.-compatible power cord and plug
Electrical Safety Documentation	UL documentation covers power supply only
Accessories	Power supplies, communication and connection cables, standard accessories
Package Laptop	16-in touchscreen, 64 GB RAM, 512 GB SSD
Virtual Training	Installation, operation, calibration, acquisition, processing
Training Provision	Remote, until independent data-collection workflow achieved
Documentation	Operating manuals, processing guidance, training materials
Technical Support	Remote operation, software, and troubleshooting assistance
System Warranty	Three years
Package Laptop Warranty	Minimum two years

QL-HYPERBENCH SOFTWARE SUITE

The bundled software suite operates the QL-HyperSpec camera and linear scanning stage, acquires reflectance data, and processes it into calibrated hyperspectral imagery. Required operating licenses are included. The suite applies radiometric and dark-current correction and references the white calibration board to deliver quantitative, comparable spectral results from each scan.

DATA ACQUISITION

Controls the supplied camera and linear scanning stage to capture push-broom reflectance scans. Coordinates stage motion with image capture so each hyperspectral cube is collected consistently across the scan field under the halogen lighting assembly.

CALIBRATION & CORRECTION

Applies radiometric correction and dark-current correction through the supplied tools, and uses the white calibration board as a reflectance reference. Converts raw sensor output into normalized reflectance imagery suitable for quantitative spectral measurement and comparison.

DATA PROCESSING

Processes and analyzes acquired hyperspectral data cubes within the included analysis software. Supports the complete workflow from calibrated reflectance imagery through spectral analysis, backed by operating manuals, processing guidance, and remote technical support.

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About QuakeLogic:

QuakeLogic Inc. is a California-based engineering and technology company providing innovative, reliable, high-quality solutions to customers worldwide.

Our Commitment

We are committed to quality, innovation, and customer satisfaction — building lasting partnerships through reliable solutions and dependable support.

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