

Headwall is the proud recipient of these honors and more...



Micro Hyperspec™ VNIR E-Series

Hyperspectral VNIR sensor with extremely high spectral and spatial resolution



FEATURES

- VNIR (400 to 1,000 nm) wavelength range
- High spatial and spectral resolution for demanding applications
- Can be used for machine vision applications such as food quality and safety, process monitoring, color measurement, and pharmaceutical PAT
- USB 3 connectivity
- Compatible with Headwall Hyperspec® III software
- Compatible with perClass Mira® Software and Scanning Stage

Feature	Headwall	Competition
All-Reflective, Aberration-Corrected Optical Spectrometer Design	✓	✗
Flexible Mounting Options	✓	✗
Factory-Made Holographic Gratings	✓	✗
Compatible with both Headwall and perClass Mira software	✓	✗
Wide Range of Foreoptic (Lens) Options	✓	✗

DATASHEET



REVISION0124

SENSITIVITY FOR YOUR LAB OR FACTORY VNIR APPLICATION

Headwall's **Micro-Hyperspec® VNIR E-Series** sensor (VNIR-E) offers high performance as well as flexibility for numerous applications. The new USB interface allows a greater variety of host computers to be utilized. Aberration-corrected spectrograph design and factory-made holographic diffraction gratings allow you to capture the highest quality hyperspectral imaging data.

FOR USE IN THE LAB

The Headwall VNIR-E can be mounted to the perClass Mira Scanning Stage for fast, intuitive hyperspectral benchtop scanning.

FOR USE IN YOUR OEM INSTRUMENTATION

The Headwall VNIR-E is available in volume for use inside scientific or industrial instrumentation. For a more compact package that operates at significantly higher frame rates, albeit with lower spectral and spatial resolution, consider the M.V.C VNIR. Headwall has a long history of supplying to the top brands of commercial systems and solutions in metrology, biomedical, color-measurement, and other markets.

headwallphotonics.com

Tel: +1 978-353-4100
 Fax: +1 978-348-1864

Headwall Photonics Inc.
 580 Main Street, Bolton, MA 01740 USA

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SPECIFICATIONS

Focal Plane Array	sCMOS
Pixel Pitch	6.5 µm
Aperture	F/2.0
Slit Length (mm)	12 mm
Dispersion/Pixel (nm)	0.65 nm
Entrance Slit Width (µm)	25 µm
FWHM Slit Image (nm)	2.5 nm
Spectral Bands	923
Spatial Bands	1600
Aberration-Corrected	Yes
Max Frame Rate (Hz)	100 Hz
Digital Output Format	USB 3.0
Weight without lens	7.7 lb / 3.5 kg
Max Power	13.2 W



information@headwallphotonics.com

