

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



Micro-Hyperspec[®]

Hyperspectral Imaging Systems



FEATURES

- Up to 369 spectral bands
- Up to 1,600 spatial bands
- Collect full hyperspectral data for every pixel
- Frame rates up to 450 Hz
- VNIR, NIR, Ext. VNIR, SWIR versions
- Airborne and ground-based applications
- All-reflective, concentric optical layout
- High spectral and spatial resolution

SPECTRAL RANGE	VNIR (400-1000nm)	NIR (900-1700nm)		Extended VNIR (600-1700nm)	SWIR (900-2500nm)
	E-Series	640	320	640	640
Micro-Hyperspec® Configuration	E-Series	640	320	640	640
Focal Plane Array	sCMOS	InGaAs	InGaAs	InGaAs	MCT
Pixel Pitch	6.5 µm	15 µm	30 µm	15 µm	15 µm
Aperture	F/2.5	F/2.5	F/2.5	F/2.5	F/2.5
Slit Length (mm)	10.5 mm	10.5 mm	10.5 mm	10.5 mm	10.5 mm
Dispersion/Pixel (nm)	1.63 nm	6 nm	12 nm	4.1 nm	6 nm
Entrance Slit Width (µm)	20 µm	25 µm	25 µm	20 µm	20 µm
FWHM Slit Image (nm)	5.8 nm	10 nm	10 nm	5.5 nm	8 nm
Spectral Bands	369	134	67	267	267
Spatial Bands	1600	640	320	640	640
Aberration-Corrected	Yes	Yes	Yes	Yes	Yes
Max Frame Rate (Hz)	170 Hz	120 Hz	346 Hz	120 Hz	>200 Hz
ADC Bit Depth	16 bits	14 bits	14 bits	14 bits	16 bits
Cooling	TE-cooled	TE-cooled	TE-cooled	TE-cooled	Stirling-cooled
Digital Output Format	Full CameraLink	Base CameraLink	Base CameraLink	Base CameraLink	Base CameraLink
Weight without lens	2.4 lb / 1.1 kg	1.9 lb / 0.9 kg	1.9 lb / 0.9 kg	1.9 lb / 0.9 kg	3.4 lb / 1.6 kg
Max Power	20 W	5 W	5 W	5 W	24 W

APPLICATIONS

- Geology and Mining
- Infrastructure Inspection
- Environmental Monitoring
- Precision Agriculture
- Color Measurement
- Food Quality and Safety
- Process Monitoring
- Pharmaceutical PAT

headwallphotonics.com

Tel: +1 978-353-4100

Fax: +1 978-348-1864

Headwall Photonics Inc.

580 Main Street, Bolton, MA 01740 USA

information@headwallphotonics.com

