



Micro Hyperspec® Imaging Sensors



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 & spatial resolution

DATASHEET MAY 2022 REV 1

MICRO HYPERSPEC IMAGING SENSOR

Spectral Range		VNIR (400-1000nm)		IIR 700nm)	Extended VNIR			
Micro-Hyperspec®	A-Series ¹	E-Series	640	320	640	384¹	640	
Focal Plane Array	Silicon CCD	sCMOS	InGaAs		5	MCT		
Pixel Pitch (microns)	7.4	6.5	15	30	15	24	15	
Aperture		F/2.5						
Slit Length (mm)		10.5						
Dispersion/Pixel (nm)	1.9	1.63	6	12	4.1	9.6	6	
Entrance Slit Width (µm)	2	20		25	20	25	20	
FWHM Slit Image (nm)	5.8	5.8	10	10	5.5	10	8	
Spectral Bands	324	369	134	67	267	166	267	
Spatial Bands	1004	1600	640	320	640	384	640	
Aberration-Corrected		Yes						
Max. Frame Rate (Hz)	90	250	120	346	120	450	>200	
ADC Bit Depth	12	16	14			16		
Cooling	No	TE-cooled	TE-cooled			Stirling-cooled		
Digital Output Format	Base	Full	Base			RS232/Base CameraLink	Base Cameralink	
Weight without lens (lb/kg)	1.6 / 0.7	2.4/1.1	1.9 / 0.9			4.4 / 2.0	3.4 / 1.6	
Max Power (W)	6.6	20	5	5	5	16.8	24	

¹ Call for availability



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