Álava Ingenieros
GRUPO ÁLAVA

Hyperspec® MV.X

Rugged Hyperspectral
Machine-Vision Camera with
Onboard Data Processing

- Visualize value at the speed of light
- Classify and detect using the spectral dimension
- Embedded hyperspectral classification made intuitive, reliable, and fast
- Industry first onboard data processing with an IP67-rated housing
- Integrated solutions include camera, software, illumination, processing equipment interface

The Headwall MV.X brings hyperspectral imaging to machine-vision applications that have previously been too demanding for an off-the-shelf solution. Challenges such as liquids, dust, and the sheer amount of raw data generated by hyperspectral data acquisition have been overcome.

An industry-first IP67 enclosure contains Headwall's unrivaled aberration-corrected concentric spectrograph design, high-performance CMOS focal-plane array, and onboard processing to output not gigabytes of raw data but spectrally classified images that can be used in real time for rapid product grading & inspection along your processing line.

Hyperspec® MV.X	
Wavelength range (nm)	400-1000
Spatial bands	1024
Spectral bands	342
Spectral sampling (nm/pixel)	1.75
Spectral FWHM (nm)	6
System F-Number	2.5
Optical design	Aberration-corrected concentric
Angular field of view 24mm lens (deg), other lenses available	14
Instantaneous field of view 24mm lens (deg), other lenses available	0.014
Bit depth	12
Interface	GenICam-compliant GigE
Software	Web user interface for system configuration and control; onboard, in-camera classification modules available
Camera sensor technology	CMOS
RAM / Solid-State Storage (GB)	8GB RAM, 128GB SSD
Max power consumption (W)	< 45W
Dimensions (L x W X H, in/mm)	8.9 x 5.1 x 5.1 / 225 x 130 x 130
Weight with 24mm lens (lb / kg)	8.8 / 4
Ingress Protection (IP) rating	IP67
Operating Temperature	0 °C to 50 °C

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