

## **Hyper-Cam Mini**



## IR HYPERSPECTRAL IMAGING SYSTEM

## **KEY FEATURES**



LOW SWAP, MODULAR DESIGN INCLUDING OPTICAL HEAD (OH) AND CONTROL AND PROCESSING BOX (CPB)



FOURIER-TRANSFORM IMAGING SPECTROSCOPY CAPABILITY WITH USER-SELECTABLE SPECTRAL RESOLUTION UP TO 4 cm<sup>-1</sup>



320 X 256 PIXEL COOLED SLS DETECTOR SENSITIVE OVER MWIR (2.9 – 5.2  $\mu m$ ) OR LWIR (7.5-12.4  $\mu m$ ) SPECTRAL RANGE



CALIBRATED SPECTRAL RADIANCE DATA PRODUCT

The Hyper-Cam Mini is an advanced, infrared hyperspectral compact imaging system that combines high spatial, spectral, and temporal resolution capabilities. Sensitive in the MWIR (2.9 – 5.2  $\mu m)$  or LWIR (7.5 – 12.4  $\mu m)$  spectral range, the Hyper-Cam Mini is well-suited for the analysis of a broad range of gas, mineral, and other target materials, Reduced size, weight, and power specifications ensure that the Hyper-Cam Mini can be deployed into even the most difficult-to-access field locations by a single operator.

## **Hyper-Cam Mini**





Industrial gas detection & identification

Reveal Pro 6 full-featured scientific software

SPECIFICATIONS	Hyper-Cam Mini MWF	Hyper-Cam Mini xLW
Detector Type	Cooled SLS	Cooled SLS
Detector Format	320 x 256 pixels	320 x 256 pixels
Spectral Range	2.9 – 5.2 μm (1920 - 3450 cm <sup>-1</sup> )	7.5 – 12.4 µm (806 - 1333 cm⁻¹)
Field of View	14° x 11°	14° x 11°
Maximum spectral resolution	4 cm <sup>-1</sup>	0.5 cm <sup>-1</sup>
Noise Equivalent Spectral Radiance (typical)	< 10 nW/cm <sup>2</sup> .sr.cm <sup>-1</sup>	< 30 nW/cm <sup>2</sup> .sr.cm <sup>-1</sup>
Radiometric Accuracy	< 2 K	< 3 K
Dimensions	20 x 27 x 21 cm (OH), 21 x 21 x 22 cm (CPB)	20 x 27 x 21 cm (OH), 21 x 21 x 22 cm (CPB)
Weight	< 8.2 kg (OH), < 4.2 kg (CPB)	< 8.2 kg (OH), < 4.2 kg (CPB)
Power Consumption	< 410 W (max), < 270 W (steady-state)	< 410 W (max), < 270 W (steady-state)
Operational Temperature	-10 °C to +50 °C	-10 °C to +50 °C
Storage Temperature	-20 °C to +60 °C	-20 °C to +60 °C

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