

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^{-1}**



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



**CALIBRATED SPECTRAL RADIANCE
DATA PRODUCT**

The Hyper-Cam Mini is an advanced, compact infrared hyperspectral imaging system that combines high spatial, spectral, and temporal resolution capabilities. Sensitive in the MWIR ($2.9 - 5.2 \mu\text{m}$) or LWIR ($7.5 - 12.4 \mu\text{m}$) 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^{-1})	7.5 – 12.4 μm (806 - 1333 cm^{-1})
Field of View	14° x 11°	14° x 11°
Maximum spectral resolution	0.5 cm^{-1}	0.5 cm^{-1}
Noise Equivalent Spectral Radiance (typical)	< 10 $\text{nW}/\text{cm}^2.\text{sr.cm}^{-1}$	< 30 $\text{nW}/\text{cm}^2.\text{sr.cm}^{-1}$
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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