HYPER-CAM Airborne Mini

A NEW GENERATION OF COMPACT AIRBORNE HYPERSPECTRAL IMAGING SYSTEMS.

The Hyper-Cam Airborne Mini paves the way towards a striking revolution in infrared hyperspectral imaging. This lightweight FTIR sensor is designed for use in compact aerial platforms without compromising measurement performance. The easy and flexible operation makes the Hyper-Cam Airborne Mini a versatile tool, well-suited to meet the requirements of the most demanding applications, including ground target signature collection, mineral mapping and gas detection and identification.

KEY BENEFITS

COMPACT & LIGHTWEIGHT:

Easy to install with a total weight of only 24 kg and a volume of less than 2 cubic feet.

SELECTABLE SPECTRAL RESOLUTION:

The Hyper-Cam Airborne Mini offers the best spectral resolution available, and is user-selectable up to 0.5 cm^{-1}. This, coupled with swappable fore-optics, optimizes ground coverage.

HIGH SPATIAL RESOLUTION:

The Hyper-Cam Airborne Mini provides the highest spatial resolution on the market. It uses the latest 320 × 256-pixel cooled SLS detector to ensure excellent 2D image quality.

HIGH TEMPORAL RESOLUTION:

Hyperspectral data are recorded as a function of time allowing characterization of time-dependent events like gas cloud dispersion and combustion. Measurement time varies with acquisition parameters and allows for the fastest recording of dynamic events.

EXTREME FLEXIBILITY:

The Hyper-Cam Airborne Mini comes with a separate optical head and processing unit, and a powerful software suite for the commands, controls and processing of data.

Also offered are an optional software development kit (SDK) as well as an automatic gas detection/identificiation/quantification plug-in.

TYPICAL USES

- Gas detection, identification and quantification
- Stack emission monitoring
- Airborne mineral mapping
- Airborne tracking of dangerous chemicals
- Ground target IR signature

SPECIFICATIONS

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OPERATIONAL MODES	Mapping, Targeting
SPECTRAL RANGE	7.4 - 11.8 µm
PIXEL FOV	750 µrad
TOTAL ANGULAR RANGE	13.5 x 10.9°
OPTICAL HEAD INCLUSIONS	Image Motion Compensation Mirror Boresighted visible camera GPS/INS+ Platform
POWER CONSUMPTION	< 260 W
HEAD & PLATFORM SIZE	28 x 35 x 38 cm
CONTROL BOX SIZE	23 x 21 x 18 cm
HEAD & PLATFORM WEIGHT	< 20 kg
CONTROL BOX WEIGHT	< 4 kg
TYPICAL NESR	< 35 nW/(cm^{-2} sr cm^{-1})

REVEAL SOFTWARE SUITE

- Efficient mission planning
- Comprehensive commands & acquisition
- Intuitive post-processing, calibration, geo-correction & mosaicing
- Automatic image stitching and map generation after mission
- Real-time gas detection, identification and quantification (optional plug-in)

Gas emission from oil plant.

Please note that these specifications are subject to change.

FOR MORE INFORMATION | TELOPS.COM

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