Hyperspectral Imager

VOLT Payloads

The Hyperspectral imager is the primary sensor for Earth Observation in the VOLT mission. The Hyperspectral imager is capable for imaging in 32 wavelength bands, operating in a push broom configuration, with image processing handled through the HPDPU.

FEATURES

Hyperspectral imaging

TYPICAL SPECIFICATION

General

- 32x Selectable Hyperspectral Bands (VNIR)
- Wide Field of View Context Imager w/NN Backend

Optics

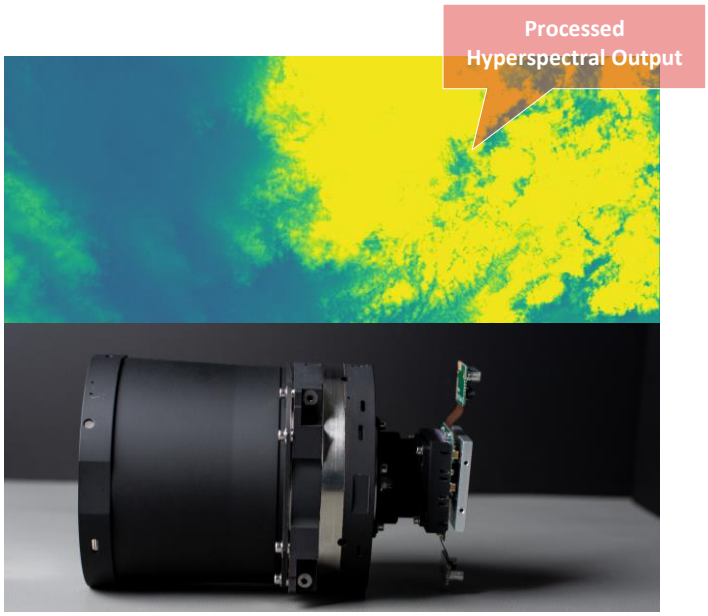
Focal Length	: 580 mm ±1 mm
Aperture	: 95 mm
Field of View	: 2.22° (across-track)

Imaging

Configuration: Push Broom
Sensor Technology: CMOS Global Shutter
Resolution: 4096 pixels
Pixel Size: 5.5 µm
Pixel Depth: 10-bit
Spectral Bands: Up to 32 bands user selectable
Spectral Range: 442 nm to 884 nm
Spectral FWHM: 3% of Central Wavelength

USE CASES

- Earth Observation
- Generate data products
- Atmosphere analysis
- Specific wavelength imaging



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