

SOC710-GX[®]

Airborne Vis/NIR Spectral Imaging System

The SOC710GX[®] is a complete airborne spectral imaging system specifically designed for ease of installation in a UAV or small aircraft. The compact system delivers real-time, research-grade results covering the 400 – 1000 nanometer wavelength range with a 640 pixel-wide swath.

The ideal spectral imaging system for applications in precision agriculture, forestry, mining or oceanography, the SOC710GX[®] offers high performance at an affordable price. The low noise, 12-bit camera used in the system supports rapid framing, wide dynamic range, high quantum efficiency and high resolution.

At 20 cm. in length and less than 2 Kilograms, the GX is designed to be compact. A single GigE connection eases integration and coupled to SOC's Compact Data-Recorder, can collect data continuously for more than an hour.



SYSTEM SPECIFICATIONS

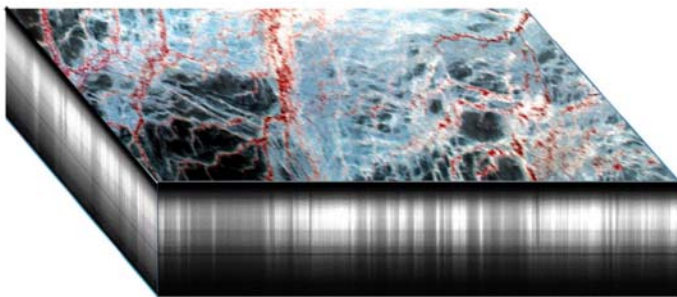
Spectral Coverage:	400-1000 nm
Spectral Resolution:	4.2 nm
Bands:	120
Pixels per line:	640
Speed:	90 lines/second
Focal Length:	Configurable
Lens Type:	C-Mount
Weight:	1.25 Kg*
Dimensions (DL):	10.3cm x 20.0cm *
Power:	12-VDC / 10 Watts

CAMERA

Dynamic Range:	12-bit
Pixel size:	9.9 μ m x 9.9 μ m
Operating Temp:	0°C ... +50°C
QE:	>38% at 500 nm
Interface	GigE

SPECTROMETER

Numerical aperture:	F/2.8
Slit Width	30 microns
Slit Length	9.8 mm



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