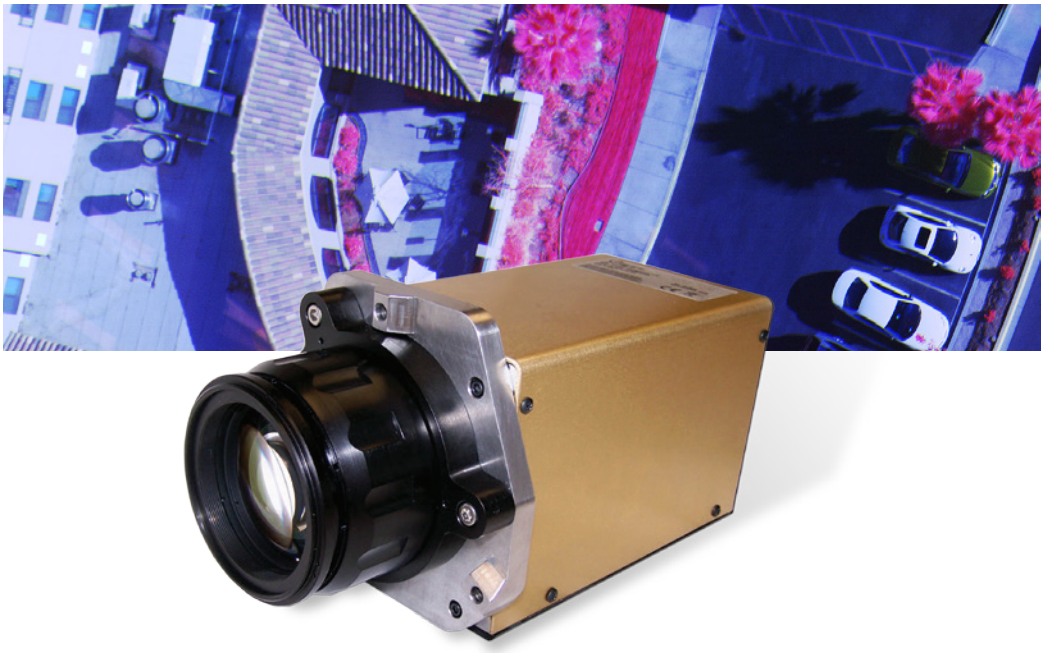
CS-MS1920 Aerial Digital Camera System

Aerial Business Expansion Solution



Applications

- Vegetation analysis
- Feature extraction
- Land segmentation and classification

Advantages

- Expanded operations
- Revenue growth
- Superior image quality
- Improved workflow productivity

The CS-MS1920 is part of a new portfolio of airborne survey products that creates value by expanding your business opportunities.

Based on a platform product line concept, the CS-MS1920 can be combined and integrated with numerous Optech products to create a unique airborne imaging solution to match your business needs.

The CS-MS1920 is based on a patented 3-CCD camera design with color-separating optics, which work together with large-format progressive-scan CCD sensors to maximize image resolution, dynamic range, and field of view. The CS-MS1920 shares the core features of all Optech cameras, including the ruggedized construction of the sensor/lens assembly, integrated kinematic mounts, and geometric and radiometric calibration.

The bonus? It's all backed by Optech's industry-leading global 24/7 support.

The CS-MS1920 is a complete solution that delivers business value… today.

RGB Infrared NDVI

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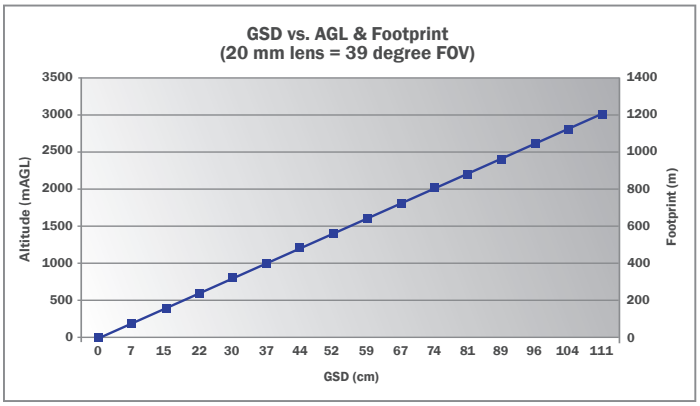

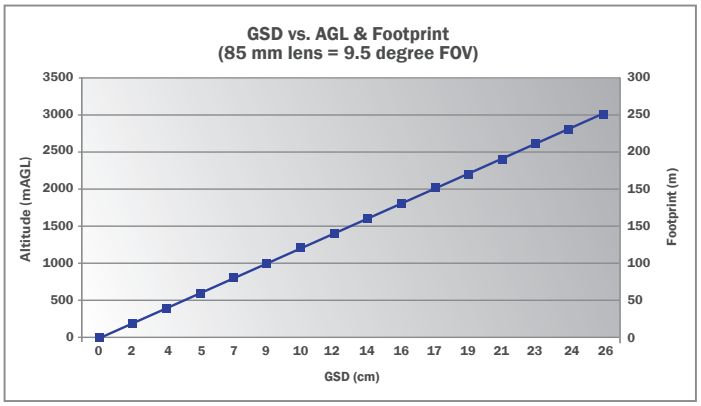

Parameter	Specification
Sensor	
Image device	1-inch interline transfer CCD
Picture elements (H x V)	1,920 x 1,080
Pixel size	7.4 µm x 7.4 µm
Spectral bands (nm)	CIR(550, 670, 810), BGR(475, 540, 625), BGR-NIR(460, 540, 670, 810),/BGR-R.edge-NIR(460, 540, 625, 710, 810)
Pixel clock rate	25 MHz
Sensing area	14.2 x 8.0 mm
Frame rate	~4 frames/second
Digital image output	Camera Link
Signal/noise	60 dB
Electronic shutter	Range: 1/10,000 - 1/10 sec., controlled via RS-232 input
Gain selection	Range: 0-36 dB, controlled via RS-232 input
External trigger input	Edge or level, three modes
External trigger source	BNC or FrameGrabber (optical isolator on BNC)
Exposure control	Manual or automatic
White balance	Manual or semi-automatic
Noise reduction	Correlated double sampling
Usability features	Digital crosshairs, color-plane multiplexing
Programmable functions	Gain, exposure time, multiplexing, trigger modes, custom processing
Video preview	Progressive scan RGB (1280 x 1024 max display resolution), Gamma correction, 2x and 4x digital zoom
Operating temperature	-40°C to 60°C non-condensing
Operating voltage	12 VDC
Power consumption	15 W
Camera back dimensions	149 x 89 x 97 mm
Weight	~2.8 kg
Controller Unit	
Computers	CC-R 2U controller with Camera Link interface
Removable storage unit	Up to 2 solid state drives (300 GB each factory standard, 600 GB optional)
Power consumption	65W
Dimensions	19” rack, 2U
Weight	~9.3 kg

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