

MS4100

High Resolution 3-CCD Digital Multispectral Camera

The MS4100 high-resolution 3-CCD camera brings you the ultimate in digital imaging quality. Our color-separating optics work in concert with large-format progressive scan CCD sensors to maximize resolution, dynamic range, and field-of-view.

The MS4100 is available in two spectral configurations - RGB for high quality color imaging and color-infrared for multispectral applications.

The HDTV one-inch sensor format provides the large pixel and sensing area needed to deliver wide coverage and high dynamic range. Advanced features such as exposure control and white balance maximize usability. Our DirectView option provides convenient progressive scan RGB real-time preview.

APPLICATIONS

- Remote Sensing
Precision Agriculture, Forestry, Environmental Assessment, Disaster Management, Coastal Management, Wetlands Studies
- Aerial Photogrammetry
- Microscopy
- Medical/Scientific Imaging
- Machine Vision
Food Processing, Electronics, Pharmaceuticals
- Reconnaissance
- Advanced Surveillance



SNAPSHOT

- Color separating prism with three CCD imaging sensors
- 1920(H) x 1080(V) resolution (x3) for 6.2 Million pixels of data
- Image 3 spectral bands from 400 -1000 nm
- Standard models for RGB and CIR
- Contact factory for custom multispectral configurations
- Wide Field-of-View, 60 degrees with 14 mm, f/2.8 lens
- Acquire and display composite, false color, or individual color plane images
- Frame rate of 10 fps
- Digital Image Output - CameraLink, LVDS or RS-422
- Compact, rugged package
- Independent gain and exposure control for each channel
- Autoexposure control and semi-automatic white balance
- External trigger input with three operating modes
- RS-232 input for configuration and control
- Optional DirectView preview via Progressive Scan RGB up to 1280 x 1024
- OEM Customization Available

MegaPlus™
for imaging excellence
when quality counts


REDLAKE
1.800.462.4307

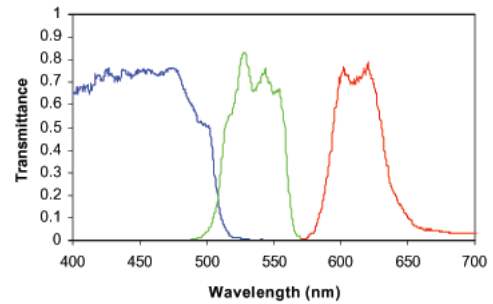


MegaPlus™ MS4100

PERFORMANCE SPECIFICATIONS

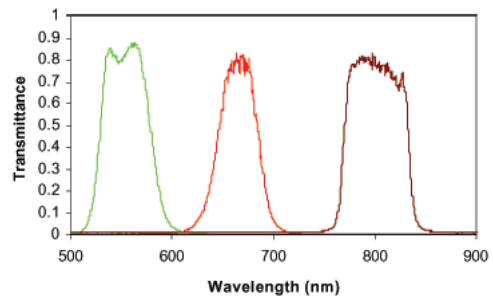
Image Device:	1-Inch Interline Transfer CCD
Picture Elements:	1920(H) x 1080(V)
Pixel Size:	7.4 x 7.4 micron
Pixel clock rate:	25 MHz
Sensing Area:	14.2 x 8 mm
Frame Rate:	10 frames per second
Digital Image Output:	8 bits x 4 taps or 10 bits x 3 taps, CameraLink, EIA-644 (LVDS) or RS-422
Signal/Noise:	60 dB
Lens Mount:	Nikon Bayonet Mount
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 Frame Grabber (Optical isolator on BNC)
Exposure Control:	Manual or Automatic
White-Balance:	Manual or Semi-Automatic
Noise Reduction:	Correlated Double Sampling
Usability Features:	Digital cross-hairs, Color-Plane Multiplexing
Operating Temperature:	0-50 C
Operating Voltage:	12 VDC
Power Consumption:	15 Watts
Weight:	1.8 kg
Programmable Functions:	Gain, exposure time, multiplexing, trigger modes, custom processing
Options:	
DirectView Output:	Progressive Scan RGB (1280x1024 max display resolution). Gamma correction. 2x and 4x digital zoom

CONFIGURATIONS



RGB CONFIGURATIONS

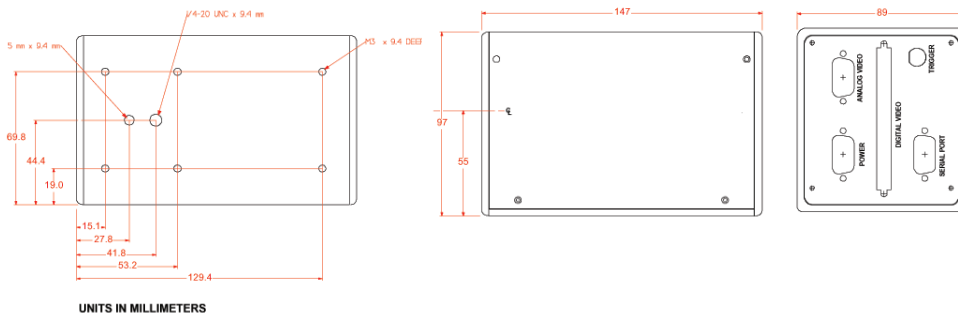
Acquires separate Red, Green, and Blue image planes for outstanding color fidelity.



CIR CONFIGURATIONS

Color-Infrared imaging acquires Red, Green and Near Infrared bands approximating Landsat satellite bands.

DIMENSIONS



UNITS IN MILLIMETERS



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Note: Specifications are typical and subject to change. 1114-02