



MULTI-SPECTRAL SWIR CAMERA



qBeam's high resolution, ultra-sensitive, configurable SWIR multi-spectral camera opens up new opportunities in the scientific, medical, security and industrial inspection fields.

A unique dichroic prism architecture enables low optical insertion loss in each channel, while maintaining the original high resolution from each sensor. The camera's design supports a variety of UDT Sensor's Unlimited or Allied Vision sensors, providing unique imaging and sensing capabilities in the SWIR band.

For example, this multi-spectral camera can be used to provide a "color" capability in the SWIR band, with a wide range of tactical and imaging applications.

FEATURES

- ◆ Simultaneous image capture on three sensors, with defined spectral-band boundaries
- ◆ Registered images
- ◆ Field swappable band pass filters
- ◆ Two-position band pass filter on each channel
- ◆ Embedded iCore7 PC
- ◆ Image processing software for image analysis and feature extraction

BENEFITS

- ◆ Three-sensor camera maintaining full resolution on each sensor
- ◆ Configurable channel bands with custom dichroic prism
- ◆ Pseudo-color in the SWIR capability
- ◆ Multiple SWIR lens options including F/1.4

SENSORS *

Each version is available with various options and sensitivities.

Resolution	Pixel Pitch [um]
320 x 256	25
640 x 512	15, 25
1280 x 1024	12.5, 15



Optional tablet to control camera and embedded computer



Lens pictured above is optional. 100 mm FL, F/1.4 lens

AVAILABLE SENSOR OPTIONS

Sensitivity	From <35 e
Frame rate	30, 60 and higher with windowing
Spectral Response	0.9 to 1.7 um 0.4 to 1.7 um

Camera may be ITAR Restricted depending on sensor selection.

EMBEDDED COMPUTER

CPU

Class Processor	Intel Core i7 2715QE, quad core, 2.1 GHz
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MEMORY

Type	DDR3-DRAM8192, 1333 MHz
Size	8 GB, upgradable

INTERFACES

Storage bus	SATA\600 (6.0 Gb/s)
Ethernet	10/100/1000 Mbit
USB	USB 2.0 & 3.0
Display port	VGA, HDMI

MECHANICAL

Dimensions (LxWxH)	5.0 x 5.0 x 7.5 in 127 x 127 x 191 mm
Camera Weight (excluding lens)	7.9 lbs
Lens Mount	M42, others available
Input Power (power brick)	100 – 240 VAC, 47 -63 Hz (or 12V battery)

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