



COLOR CCD Camera With SXGA Resolution
and Gigabit Ethernet Video Output

CS6910G

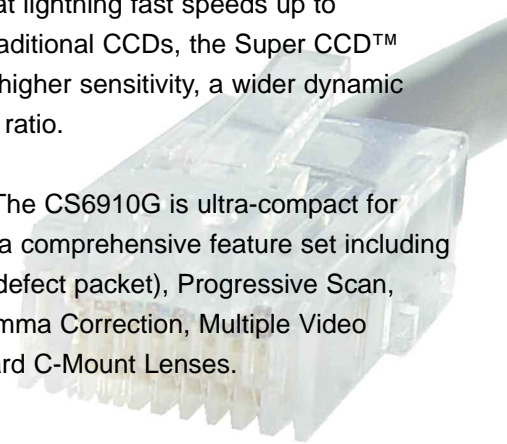


Key Features

GIGABIT ETHERNET (IEEE802.3ab 1000base-T): The CS6910G conforms to the AIA GigE Vision™ protocol making it compatible with standard Gigabit Ethernet hardware, ports and cables. It also enables extremely high-speed, high-bandwidth image processing plus camera control via a host PC over a CAT5e cable running up to 300 feet (100m).

HIGH-SPEED COLOR IMAGES: The CS6910G is the first Gigabit camera to utilize the Super CCD™ Honeycomb Color Sensor resulting in SXGA (1280 x 960) RGB 24bit color capture at lightning fast speeds up to 30 frames-per-second. Compared to traditional CCDs, the Super CCD™ yields superior color reproduction with higher sensitivity, a wider dynamic range and an improved signal-to-noise ratio.

FULL FEATURED PERFORMANCE: The CS6910G is ultra-compact for space-sensitive applications yet offers a comprehensive feature set including Image Re-Transfer Control (to resend defect packet), Progressive Scan, Trigger Control, Electronic Shutter, Gamma Correction, Multiple Video Formats and economical use of standard C-Mount Lenses.



CS6910G SPECIFICATIONS (Tentative)

Image Sensor	1/4 type CCD
	(Diagonal: 5.0(H) x 4.53(V) (mm))
Active Cells	648(H) x 486(V) x 2
Scanning System	3.8(H) x 3.8(V) (μm)
Sync System	Progressive
Aspect Ratio	4:3
Illumination	Standard: 3000 lux F8, 5100K (SXGA Full 1/30s) Minimum: 30 lux F1.4 (SXGA Full 1/30s) Gamma=0.45, Gain:+6dB, Video Level: 50%
External Input Signal	TRG (Trigger) Control
Electronic Shutter	1/15000 - 8s
Random Trigger	Pulse Width Mode/Exposure Time
Video Out	Based on IEEE802.ab (1000Base-T) Maximum: 1 Gbps
Protocol	Based on AIA GigE Vision™
Video Format	
SXGA Full (1280 x 960)	30 Frames Per Second
SXGA Half (1280 x 960)	15 Frames Per Second
VGA Full (640 x 480)	30 Frames Per Second
Video Mode	RGB 24 bit (3 x 8)
Cable Type	Twisted Pair Cable (CAT 5e)
Cable Length	100 meters (300 feet)
Temperature	
Performance Guaranteed	32°F - 104° F (20-80% Humidity)
Operation Guaranteed	32°F - 113° F (20-80% Humidity)
Lens Mount	C-Mount
Dimensions	55(W) x 55(H) x 63(D) mm 2.16(W) x 2.16(H) x 2.48(D) inches
Weight	200g (7.1 ounces)



Typical Applications

Video image capture applications for the CS6910G include high-speed color-based machine vision, Intelligent Traffic Systems, factory automation, microscopy, robotics, inspection, scientific and many others.

What is the GigE Vision™ Standard

GigE Vision™ is a new camera interface standard developed using the Gigabit Ethernet communication protocol. GigE Vision™ is the first standard to allow for fast image transfer using low cost standard cables over very long lengths. With GigE Vision™, hardware and software from different vendors can interoperate seamlessly over GigE connections.

The standard was developed by a group of companies representing every sector of the vision industry. The Automated Imaging Association (AIA) oversees the ongoing development and administration of the standard.

GigE Vision offers many benefits including:

- High bandwidth (1000 Mbps) allows large uncompressed images to be transferred quickly in real time
- Uncompressed data transfer up to 100 meters (300 ft) in length
- Standard Gigabit Ethernet hardware allows single or multiple camera connections to a single or multiple computers
- Low cost cables and standard connectors
- Highly scalable to follow the growth of Ethernet bandwidth. As 10GigE becomes mainstream, GigE Vision will be the fastest connection in the industry
- Standard hardware, cables allow easy, low-cost integration.



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