



COLOR High-Speed Firewire Camera
For Factory Automation & Image Measurement

CS6910F



Key Features

SXGA RESOLUTION: The high-performance CS6910F captures SXGA color images (1280 x 960 pixels) at up to 30 frames per second. It is ideal for factory automation, inspection, computer vision, semiconductors, food and beverage, and many other fast moving color applications

RGB or YUV VIDEO FORMATS: Versatile design allows for greater customization for specific applications

FIREWIRE® INTERFACE: Compatibility with standard Firewire (IEEE1394) components allow for easier, more cost-effective integration

SUPER CCD™: Camera's 1/4" progressive scan Super CCD™ provides superior color fidelity, greater sensitivity and improved dynamic range compared to standard CCDs of the same size

FULL-FEATURED PERFORMANCE: Camera's feature set includes random trigger shutter, electronic shutter (1/15000 - 8 sec), and PC control

COMPACT & LIGHTWEIGHT

CS6910F 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	
Gamma Correction	0.45/0.65/1.0/User Setting	
Video Out	IEEE1394 (Max. 800Mbps)	
Protocol	IEEE 1394 (Ver 1.31)	
Video Format		
YUV4:2:2, 16 bit (640 x 480)	30 Frames Per Second	
RGB, 24 bit (640 x 480)	30 Frames Per Second	
YUV4:2:2, 16 bit (1280 x 960)	15 Frames Per Second	
RGB, 24 bit (1280 x 960)	15 Frames Per Second	
YUV4:2:2, 16 bit (1280 x 960)	24 Frames Per Second	
YUV4:1:1, 12 bit (1280 x 960)	30 Frames Per Second	
Temperature		
Performance Guaranteed	°32F - 104° F (20-80% Humidity)	
Operation Guaranteed	32°F - 113° F (20-80% Humidity)	
Lens Mount	C-Mount	
Dimensions	44(W) x 29(H) x 65(D) mm	
	1.73(W) x 1.14(H) x 2.56(D) inches	
Weight	120g (4.23 ounces)	



Typical Applications

Video image capture applications for the CS6910F include high-speed color-based machine vision, factory automation, robotics, inspection, scientific and many others.



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