



Ultra High-Speed 1/3" CCD Firewire
Remote Head Camera for Factory Automation

CS86851



Key Features

FULL FRAME CAPTURE AT 133 FPS: The CS86851 video frame rate is an amazing 133 FPS (frame per second) at full frame, 240 fps at half and 430 fps in draft mode. Combining high resolution with lightning fast frame rates makes it ideal for machine vision, monitoring of fast processes, character recognition and other demanding high-speed applications

REMOTE HEAD VERSATILITY: Weighing less than an ounce and about the size of an ice cube, the remote camera head can be mounted in restricted spaces by cable up to two meters away from the control unit, for example, on the end of a robot arm or a positioning stage

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

CS8581QF SPECIFICATIONS (Tentative)

Image Sensor	1/3 type CCD
Active Pixels	640(H) x 480(V)
Unit Cell Size	7.4(H) x 7.4(V) (μm)
Scanning System	Progressive
Sync System	Internal
Aspect Ratio	4:3
Illumination	950 Lux F5.6
External Input Signal	TRG (Trigger) Control
Electronic Shutter	1/50000 - 2s
Random Trigger	Exposure Time Flx Mode
Gamma Correction	Gamma=1.0
Video Out	IEEE1394 (Max. 800Mbps)
Protocol	IEEE 1394 (Ver 1.31)
Video Format	
640 x 480 Monochrome 8 Bit	133 Frames Per Second
Scalable (1/2) Monochrome 8 Bit	240 Frames Per Second
Draft (1/4) Monochrome 8 Bit	430 Frames Per Second
Temperature	
Performance Guaranteed	32°F - 104° F (30-90% Humidity)
Operation Guaranteed	23°F - 113° F (10-90% Humidity)
Lens Mount	Mount M10.5 P=0.5
Camera Head Dimensions	23(W) x 23(H) x 26(D) mm .9(W) x .9(H) x 1.02(D) inches
CCU Dimensions	148(W) x 28(H) x 90(D) mm 5.82(W) x 1.1(H) x 3.54(D) inches
Weight	Camera Head 24g (.84 ounces) CCU 250g (8.81 ounces)



Typical Applications

Video image capture applications for the CS8561QF include high-speed machine vision, factory automation, robotics, inspection, scientific and many others.



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