



ESD60CM3



Key Features

FULL HIGH-DEFINITION: State-of-the-art, one-piece HD camera integrates a 1/3" CMOS color sensor to achieve 1280 x 1024 or 1280 x 720 at 60 fps for the absolute sharpest, most clearly defined images with the truest possible colors. Optimized for today's challenging machine vision, microscopy, endoscopy, aerospace, broadcast, and R & D applications.

DVI INTERFACE: Simple to use, ultra-fast DVI interface assures highest levels of reliability, compatibility and image quality. Syncs with new Toshiba Teli SD card recorder and all DVI input monitors. Frame rate for DVI is twice as fast as CameraLink, four times as fast as Gigabit Ethernet, and eight times as fast as FireWire (S800) or USB 2.0.

FEATURE-RICH DESIGN: Camera offers progressive scan, rolling electronic shutter, line generator (2 lines), special control software and other advantages for the best possible imaging performance.

Specifications: CSDW60CM28

IMAGING SPECIFICATIONS

External Dimension	44 (w) x 29 (h) x 78 (d) mm 1.73 (w) x 1.14 (h) x 3.07 (d) inches
Weight	100 g 3.52 oz
Mount	C mount
Power supply	DC12V ±10%
Power consumption	1.7W

IMAGING SPECIFICATIONS

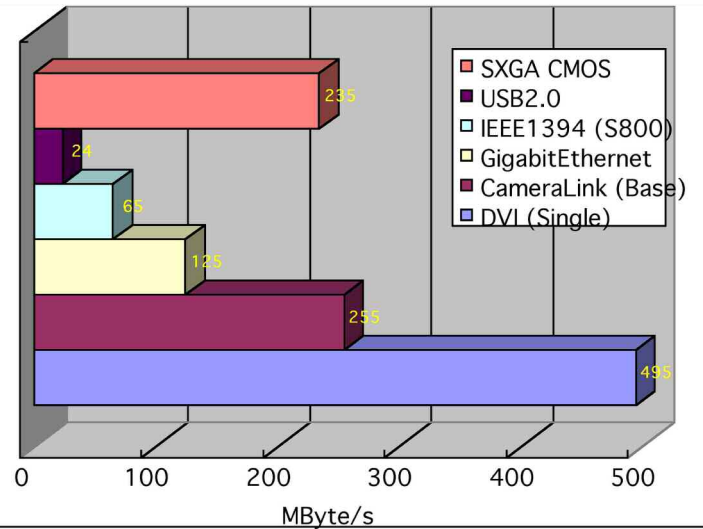
Image sensor	CMOS 1/3 inch
Image size	1280 (h) x 1024 (v) or 1280 (h) x 720 (v)
Pixel size (square)	3.63 (h) x 3.63 (v) μm
Frame rate	60 fps (frames per second)
Filter array	Primary color bayer
Scan system	Progressive
Aspect ratio	5:4 or 16:9
Sync system	Internal
Sensitivity (standard)	1500 (lx), F8, 5000 (K)
Sensitivity (minimum)	4 (lx), F1.4 (gain: max, Gamma: on, video level: 50%)
Video output	DVI-D
Data format	RGB
Data depth	RGB 8bit each
Data clock	108.000 (MHz)

SHUTTER SPECIFICATIONS

Shutter	Rolling shutter
Exposure	Manual or Auto
Manual	1/60 to 1/100,000 sec

SUGGESTED APPLICATIONS

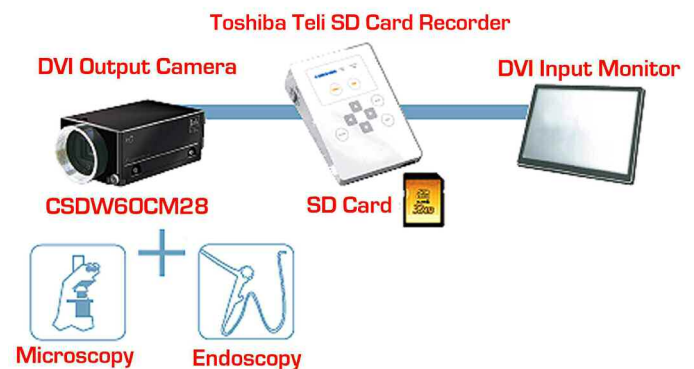
Machine vision, LCD panel inspection, medical imaging, OEM applications, traffic monitoring, aeronautical/aerospace, microscopy, endoscopy, ophthalmology, observation, HDTV studio sub-camera, Point of View (POV) production applications in entertainment, public safety and sports broadcasting



Maximum frame rates (fps) for SXGA

Interface	RGB	YUV	RAW
DVI (single)	125	188	377
Camera Link	64	97	194
Gigabit Ethernet	31	47	95
IEEE 1394 (S800)	16	25	50
USB 2.0	6	9	18

Sample configuration for CSDS60CM3



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