

CV640 • Machine Vision Camera



FAST FIREWIRE PERFORMANCE

Features

- Firewire IEEE-1394
- 659 x 494 pixel resolution
- 8-bit and 10-bit modes
- 120 frames per second
- DCAM (IIDC 1.3) compliant
- Region of interest readout
- Snapshot shutter
- Easy-to-use trigger functions
- Continuously variable exposure control
- Extended dynamic range function

CV640

Finally! A truly plug-and-play digital camera for machine vision with standardized interfaces and advanced performance. High frame-rate, superior sensitivity, and DCAM-compliant software controls makes this the camera of choice for industrial imaging applications. Designed from the ground up to make life easier for the machine vision system integrators.

Benefits

- Plug and play compatibility with industry-standard software
- Large pixel size provides superior sensitivity
- High frame rates
- Region of interest function for increased speed
- Extended dynamic range function facilitates imaging in difficult lighting situations
- Snapshot shutter for stop action imaging
- DCAM compliance for plug-and-play compatibility
- Software development kit available for easy camera integration

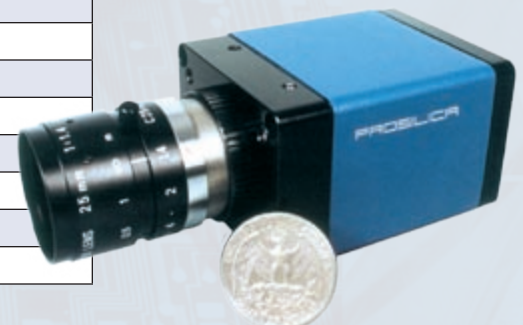


Additional Features

- Firewire-1394a interface
- DCAM 1.3 compliant (format 7 and format 0)
- TTL Trigger inputs/outputs
- Snapshot shutter
- Adjustable C-mount
- Programmable region-of-interest (ROI)
- Sub-sampling readout
- 8-bit and 10-bit digital output
- Extended dynamic range function (EDR)
- Programmable integration time
- Programmable gain and offset
- Programmable gamma
- Software development kit with source code
- Firmware updates via Firewire port
- Provides 5V DC power to external devices

CV640 Specifications

Sensor Size (H x V)	659 x 494 pixels
Sensor Format	1/2 inch
Dynamic Range	65 dB (112 dB in EDR mode)
Sensor Type	Progressive Scan CMOS
Exposure Type	Snapshot shutter
Pixel Size	9.9 x 9.9 um
Frame Rate	120 fps (non-windows host) 100 fps (MS Windows) more with ROI
Output Type	IEEE 1394a
DCAM Compliance	IIDC 1.3
Output Format	8 or 10 bits/pixel
Synchronization	External trigger (edge, level, active high, active low)
Exposure Control	Programmable
Power	1.8 W 12VDC @ 150 mA
Lens Mount	C-mount
Housing size	79 x 51 x 38 (L x W x H in mm)
Weight	220 g



Prosilica Inc.