

7200 Series

Industrial Machine Vision Camera With FireWire Output



High speed 1394A interface for plug `n play operation

Small and light weight reduces space requirement in your product.

Progressive Scan CMOS sensor minimizes bloom

Internal DCAM trigger or external hardware trigger for maximum image acquisition flexibility

Custom designs and configurations for product specialization

APPLICATIONS

- Pick and Place Equipment
- Test & Measurement
- QC/Inspection



The Cohu 7200 Series is a small CMOS monochrome camera with FireWire interface with the size, features, and specifications that give it maximum productivity and economy. It operates in a non-interlaced (progressive scan) VGA format with full frame readout at up to 50 frames/second at 8-bits per pixel. It is IIDC 1.30 (DCAM-II) compliant and compatible with a Cohu graphical user interface (GUI) and SDK, as well as third-party software packages.

The camera can be triggered via an external sync signal or in a "free run" state. There are four discreet outputs on the RJ45 connector to trigger strobes, alarms, other cameras, etc.

The CMOS sensor delivers full resolution at 50 fps, making it the perfect solution for applications such as machine vision assembly lines. The global freeze-frame shutter allows the signal charges of all pixels to be integrated in parallel—all pixels start integrating simultaneously and stop integrating simultaneously.

For OEM Customers

The 7200 Series is designed to integrate smoothly and economically into products utilizing machine vision. Cohu provides custom configurations and timed delivery to meet most JIT manufacturing schedules, usually with off-the-shelf economy.

The 7200 Series camera is designed and manufactured in the USA.



7200 Series

SPECIFICATIONS

Industrial Machine Vision Camera with FireWire Output

VIDEO

Sensor

CMOS sensor, progressive scan, 1/2" monochrome

Active Pixels

659 H x 494 V

Frame Rate

0-50 fps progressive scan (full frame, 1 ms shutter)

Sensitivity

1.5 lux (faceplate) full video, nominal gain, 1/30 sec. exposure

Shutter

Programmable global 1 sec. to 1/50,000 sec.

Gain

Manual 0-25 dB

Signal to Noise

45 dB max

Spectral Response

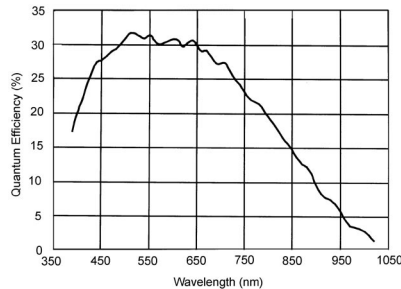


Image Processing

Gamma fixed at 1.0, mirror imaging

Video Output

IEEE-1394A IIDC (D-cam) compliant (8-bit format)

External Sync

Software trigger or opto-isolated hardware, 3.3 to 12 V pulse width >1 μsec

Control discretes

Four opto-isolated open collector 2ma drive, 10 μsec typical rise time into 100 ohm lead

Controls

Gain, shutter, offset, frame rate, control discretes timing and test image via D-cam registers

ELECTRICAL

Power

12 VDC, <2 W, IEEE-1394A compatible

MECHANICAL

Size

29 mm H x 44 mm W x 73.3 mm D (incl. C mount)

Weight

< 110 g (less lens)

Connectors

Video/Control/Power: IEEE-1394A

Opto-isolated trigger: RJ-45 (10 wire)

ENVIRONMENTAL

Operating Temperature

-5° to 60° C operating; -20° to 70° C storage

Humidity

<95% non-condensing

Shock

80 G

Vibration

8 G

REGULATORY

Compliance

FCC/CE CISPR11 Class A, plus EN61000-4-3, -4-6, -4-8

ORDERING INFORMATION

7212-100X/XXXX

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SENSOR

1 - 1/2" Monochrome

POWER

2 - 12 VDC over IEEE-1394 bus

OUTPUT

1 - IEEE-1394A

UNASSIGNED

00 - None

ACCESSORIES

0 - None

1 - Aux mount

LENSES

AL06 2/3" - 6.5 mm, f1.8 manual iris

AL07 2/3" - 8 mm, f1.4 manual iris

AL12 1" - 12.5 mm manual iris

AL15 2/3" - 16 mm, f1.4 manual iris

AL16 2/3" - 16 mm, f1.4 manual iris

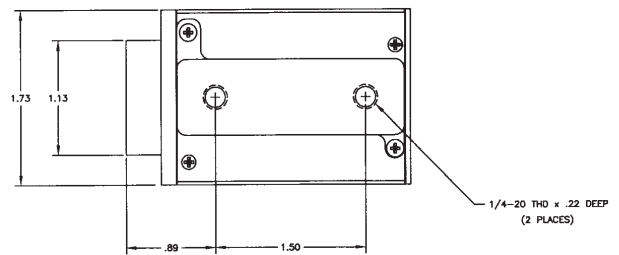
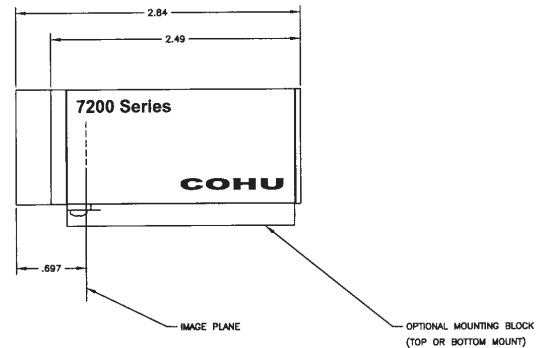
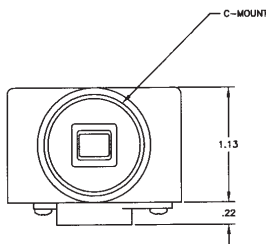
AL25 1" - 25 mm, f1.4 manual iris

AL26 2/3", 25 mm, f1.6 manual iris

AL50 1" - 50 mm, f1.4 manual iris

AL51 2/3 - 50 mm, f2.8 manual iris

DIMENSIONS



Specifications subject to change without notice.



Cohu, Inc./Electronics Division
P.O. Box 85623 San Diego, CA 92186
Phone: 858/277-6700
Fax: 858/277-0221
www.cohu-cameras.com
info@cohu.com

