

3230 Series

Day/night camera with zoom lens in IP-67 enclosure

COHU

- An efficient and lower cost "universal product" approach to fixed position camera sites
- Day/night color camera
- DSP technology for highest quality images day and night
- Integrated 3.3mm-99mm zoom lens
- Sealed and pressurized enclosure
- Heater provides operation to -50°C
- RS232/RS422 control
- Single MS-connector reliability
- Unobtrusive appearance
- Wide range of DSP functions support the particular camera site
- Higher protection. Complies with IP67 environmental standards.

APPLICATIONS

- Security/Surveillance
- Access Control
- Remote Monitoring
- Process Monitoring



Shown with optional sunshield.

The Cohu 3230 Series is a line of high performance, day/night color cameras with integrated zoom lens enclosed in a sturdy IP67-rated enclosure. The result is a quality, outdoor camera of superior specifications at a competitive price. Its design, performance, and price make it a true "set it and forget it" camera ideal for security, surveillance or remote monitoring applications. It has been designed for ease of integration into an existing camera site or in new construction. It comes prewired with an MS-style connector for connection reliability and ease of installation. Cohu environmental enclosures are designed to protect the customer's surveillance investment and assure the long-term reliability of the camera. This is an important distinction that sets apart Cohu from other manufacturers.

The camera uses a 1/4" interline transfer sensor with 480 lines of resolution. The high-grade optics employs 30X zoom with a range from 3.3mm to 99mm. With up to 10X digital zoom, the effective focal length is 99 mm to 990mm. On-screen camera set up and site ID is controlled via RS422 or RS232.

As a professional surveillance tool, the Cohu 3230 is designed to provide quality video in near darkness. The maximum duration of the automatic long-term integration level is selectable from 1/60 (off) through two seconds (128 fields). While integrating, an on-board frame store provides continuous video output, updated at the integration rate. The user simply selects the amount of integration that is acceptable to the surveillance requirements.

The 3230 is an ideal solution for security professionals who require the reliability and quality of a high performance camera and Cohu service, in extreme environmental conditions. For cameras sited in conventional environments, request a 3220 Series.

Cohu 3230 Series

SPECIFICATIONS

Day/Night Camera with zoom lens in IP67 enclosure

CAMERA

Image Sensor

1/4" Sony Super HAD CCD

Total Pixels

NTSC: 811 x 508, PAL: 795 x 596

Resolution

480 HTVL

Sync

Crystal

Sensitivity

1.0 lux @ 1/60 shutter (day/color mode) 30 IRE
0.2 lux @ 1/60 shutter (night/mono mode) 30 IRE
0.001 lux @ 2 sec/128 fields integration (night/mono mode) 30 IRE

Video Output

1.0 V p-p @ 75 ohms, unbalanced

Integration

The maximum duration of the automatic long term integration is selectable from 1/30 (2 fields) to 2 sec. (128 fields). When integration is active, frame store provides continuous video output.

Shutter Speed Settings

1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000

Iris

Automatic/manual selectable

Gamma Setting

0.45

SNR

>48 dB

LENS

Integrated Zoom: 30X optical zoom, 3.3mm to 99mm; f1.6 to f3.2

Lens Focus

Auto/manual selectable

Digital Zoom

Up to 10X with smooth transition produces effective digital focal length from 3.3mm to 990mm

OPERATIONAL

Day/Night Mode

Auto, Color or Monochrome

Zoom Control

Zoom In/Out
Lens speed (Fast/Slow) setting
Zoom Range Setting (Start and End Points)

Digital Zoom

Sets max. digital zoom range (OFF, 2x, 5x, 10x)

Camera ID (Address)

256 programmable addresses, 0-255 with "find address" capability

Site Description ID

One line of up to 10 characters, lower left

Backlight Compensation

Normal (OFF), Level 1 or Level 2 compensation modes, with 5 selectable compensation areas.

White Balance Control

Auto, Manual (Blue/Red), Indoor, Outdoor Modes

Sharpness Control

Edge sharpness control (0 to 15) where lower numbers represent softer edges

Mirror Image

ON/OFF, where ON Inverts image horizontally

MECHANICAL

Dimensions

See illustration

Weight

<5 lbs/2.7 kg

Camera Mount

Five 1/4-20 mount (See illustration)

Connector

18-pin MS (PT07C-14-18P)
Mating connector included.

ELECTRICAL

Input Voltage

Model 3232: 12 VDC +/- 10%
Model 3234: 24 VDC/VAC +/- 10%
Model 3235: 115 VAC +/- 10%

Power

<4 W heater off; <22 W heater on

Communication

RS422 4-wire half duplex or RS232 3-Wire half duplex

ENVIRONMENTAL

Temperature

Operating: -50C to 60C (-58F to 140F)
Storage: -30C to 60C (-58F to 140F)

Protection Rating

IP67 and NEMA4X; (Factory Sealed and Pressurized to 5 PSI)

Humidity

Up to 100% relative humidity

Altitude

Sea level to equivalent of 3,000m/10,000 feet (508mm/20 inches of mercury)

Air Contaminants

Withstands exposure to sand, dust, fungus, and salt atmosphere, per MIL-E-5400T, paragraph 3.2.24.7, 3.2.24.8, and 3.2.24.9

REGULATORY

All: FCC Class A
Models 3232 & 3234: CE

SHIPPING INFORMATION

Weight 8 lbs (9.07 kg)
Volume 18" x 12" x 12" (457 mm x 304 mm x 304 mm)

ORDERING INFORMATION

323X-X000/XXXX

Day/night camera and zoom lens in IP67 sealed and pressurized enclosure

POWER
2 - 12 VDC
4 - 24 VDC/VAC
5 - 115 VAC

VIDEO
3 - NTSC
7 - PAL

MOUNT
PEDD - Pedestal
CEIL - Ceiling
POLE - Pole
MAST - Mast
HDWL - Heavy duty wall
NONE - None

Sunshield: Order SS-111

DIMENSIONS

