

3600 Surveillance Series **High Performance Color Camera & Lens**

High performance color sensor for crisp, clear images

Integration for low light level imaging

PAL or NTSC

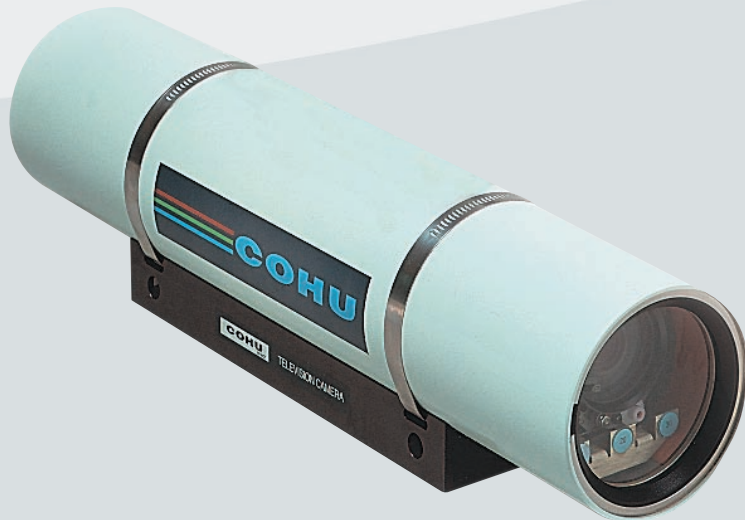
High power lens configurations available for long distance imaging

Fiber optic transmission available on select models

DSP control and GUI setup for easy configuration

Sealed and pressurized enclosure for secure and reliable 24/7 operation

COHU



APPLICATIONS

- Surveillance and detection
- Access Control
- Process Monitoring
- Military installations
- Wide area detection

The 3600 Surveillance Series is a professional-grade line of color surveillance cameras with factory installed and back-focused lenses, enclosed in Cohu's legendary sealed and pressurized enclosure for maximum protection and reliability. This design allows for a wide choice of lenses and electronic component options to create a competitively priced camera for site-specific imaging. The configuration flexibility of this camera makes it suitable for a broad range of surveillance, access control, process monitoring, and wide area detection applications.

The camera employs a 1/2" CCD sensor, with a resolution of 470 lines (768 x 494 pixel) resolution.

The Model 3640 features Cohu's legendary sealed and pressurized enclosure, which protects your investment in good video against grime, pollution, and humidity. It is rated IP67.

A graphical user interface provides precise set up of the camera. Flash memory maintains last setting.

- Internal/external sync
- Backlight control
- Gamma select
- White balance: auto/manual adjust
- Exposure: automatic, shutter and gain selectable, integration and gain selectable
- Aperture correction: horizontal and vertical adjustment
- Image manipulation: Digital zoom, pan, scroll, rotate, freeze, Y/C invert, color bars, color/mono

The Cohu design principle allows for additional options to adapt the 3600 Series to the site. Fiber optic transmission or character generators are available on selected models. Other options can be quoted. OEM inquiries are welcome.

SPECIFICATIONS

CAMERA

Sensor

1/2" (6.4 mm x 4.8 mm) color CCD

Format

NTSC or PAL

Active Pixels

768 H x 494 V

Resolution

460 HTVL

Sensitivity (Faceplate)

Full video, min. gain 3 lux

Shutter

Auto or manual, 1/60 to 1/50,000

Gain

Auto, 0 to 32 db

SNR

48 dB at max gain

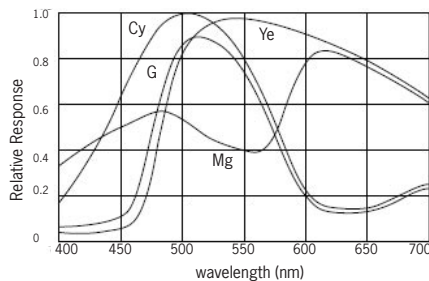
White Balance

Auto or manual white balance (2500 to 9500K)

Sync

Internal crystal or phase adjust line lock

SNR



ENCLOSURE

Protection Rating

IP-67 and NEMA 4X

Ambient Temp. Limit

Operating: -20 to 60° C (-4 to 140° F); -40 to 60° C (-40 to 140° F) with heater;
Storage: -30 to 70° C (-22 to 157° F)

Humidity

Up to 100% relative humidity

Vibration

.001 g²/Hz from 1 Hz to 10 Hz
.075 g²/Hz from 10 Hz to 2000 Hz
1 hour in any axis per MIL-STD-810E, 516.3

Shock

10 g, 11ms, any axis under non-operating conditions, per MIL-STD-810E, 514.3, categories 1,4,5,6,8,9,10

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

Explosion

MIL-E-5400T, paragraph 3.2.24.10

Acoustic

Can withstand environments greater than 150 dB continuously for 30 minutes

EMI

FCC rules, Part 15, Subpart J, for Class A devices

MECHANICAL

Dimensions

364X and 365X: 4.5" (114.3 mm) dia. + .7" (18 mm) base x 15" x (381 mm) L
368X and 369X: 7.8" (198 mm) dia. + .7" (18 mm) base x 22" x (559 mm) L

Weight

364X and 365X: 10 lbs (4.5 k) less lens
368X and 369X: 30 lbs (13.6 k) less lens

Base

1/4-20, 3 position

Connectors

364X and 365X: 39-pin Bendix, Shrader pressure charge valve, pressure relief
368X and 369X: 18-pin Bendix, Shrader pressure charge valve, pressure relief

ORDERING INFORMATION

High performance color surveillance camera, 4" or 8" diameter enclosure for larger lenses. Legacy analog lens control.

ENCLOSURE

4 - 4.5" barrel

8 - 8" barrel

POWER

4 - 24 VAC

5 - 115 VAC

SYNC

1 - Internal crystal

2 - Phase adjust line lock

IRIS

0 - Auto Iris, for fixed auto iris lens

4 - Electronic DC

SENSOR/FORMAT

2 - 1/2" NTSC

5 - 1/2" PAL

SPECIAL OPTIONS

0 - None

4 - ID generator

5 - Fiber optic video output

6 - ID generator and fiber optic output

LENSES

Model 364X only:

EH04 - 3.7 MM F1.6, 1/2" format, CS mount auto iris lens

EH06 - 6 MM F1.4, 1/2" format, CS mount auto iris lens

EH13 - 12 MM F1.4, 1/2" format, CS mount auto iris lens

ES04 - 4.2MM F1.6, 1/2" format, CS mount auto iris lens

ES05 - 4.8 MM F1.8, 2/3" format, C mount auto iris lens

ES08 - 8 MM F1.4, 2/3" format, C mount auto iris lens

ES12 - 12.5MM F1.4, 1" format, C mount auto iris lens

ES16 - 16MM F1.4, 2/3" format, C mount auto iris lens

ES25 - 25MM F1.4, 1" format, C mount auto iris lens

ES75 - 75MM F1.8, 1" format, C mount auto iris lens

P06R - 6:1 8-48MM F1.0 1/2" format, zoom lens with presets

P10S - 10:1 8-80MM F1.2 1/2" format, zoom lens with presets

P20B - 1/2" 20:1 F2.5-360 10-200 MM zoom lens, motor iris, presets

Z10S - 10:1 8-80MM F1.2 1/2" format, zoom lens

Model 368X only:

P22A - 1" 22:1 F2.3-3000 17-374MM zoom lens, auto iris, presets

P22B - 1" 22:1 F3.1-3000 23-506MM zoom lens, auto iris, presets

P50B - 1/2" 50:1 F4-125 10-500MM zoom lens, motor iris, presets

ENCLOSURE

5 - 4.5" barrel

9 - 8" barrel

POWER

4 - 24 VAC

5 - 115 VAC

SYNC

1 - Internal crystal

2 - Phase adjust line lock

IRIS

0 - Auto Iris, for fixed auto iris lens

4 - Electronic DC

SENSOR/FORMAT

2 - 1/2" NTSC

5 - 1/2" PAL

ACCESSORIES

1 - Serial digital lens control with ID generator

LENSES

Model 365X only:

P06R - 6:1 8-48MM F1.0 1/2" format, zoom lens with presets

P10S - 10:1 8-80MM F1.2 1/2" format, zoom lens with presets

P20B - 1/2" 20:1 F2.5-360 10-200MM zoom lens, motor iris, presets

Model 369X only:

P22A - 1" 22:1 F2.3-3000 17-374MM zoom lens, auto iris, presets

P22B - 1" 22:1 F3.1-3000 23-506MM zoom lens, auto iris, presets

P50B - 1/2" 50:1 F4-125 10-500MM zoom lens, motor iris, presets

COHU

Cohu, Inc. / Electronics Division

ISO 9001 Certified

ADVANCED
VIDEO
TECHNOLOGY
Made in the U.S.A.