



- Superior SD Image Quality
- Powerful 35x Optical Zoom
- Electronic Image Stabilization
- Variable Speed, Smooth Positioning Movements
- Presets, Tours, Sectors and Privacy Zones
- Pressurized IP67 Protection
- NEMA TS2 Temperature Range, -34°C to 74°C
- NTCIP 1205 over Serial Communication
- 120Vac or 24Vac Power
- Single Connector Simplicity
- Pendant, Wall, Pole and Corner Mounting Options

The 3920 Series i-dome from Cohu is the most flexible and well-made outdoor surveillance camera you have ever experienced. It is designed for applications that require high performance video, comprehensive features, and 365-days-a-year reliability in all kinds of weather.

The unobtrusive package begins with a high performance day/night camera with integrated zoom lens. Its high-speed positioner can achieve 250° per second in preset mode.

The mechanical assembly is metal, not plastic. The dome is premium acrylic. The legendary Cohu IP67 enclosure means a clean operating environment and low maintenance.

The i-dome camera features a 35x optical zoom range (3.4 mm to 119 mm), with selectable automatic or manual focus.

Automatic Day/Night switching technology assures vivid color images during daylight, and high sensitivity monochrome images after dark.

A high-speed positioner, with 0.1° accuracy, provides 360° continuous rotation and up to 64 user-defined preset positions, each with a two-line, 24-character title. i-dome uses real time computer algorithms to correct for shaking and waving images caused by wind and vibration. The two modes of stabilization settings, 5 Hz and 16 Hz, allow a wide range of vibration compensation.

CohuHD i-dome features the exclusive Cohu multi-protocol control firmware. This means you can incorporate this Cohu camera into an existing control system from other major manufacturers. For traffic management video systems, i-dome can also be ordered with NTCIP control language.

All camera and positioner functions are controlled by the integrated receiver/driver, operable via RS-232/422 serial communications with digital position feedback.

Up to eight tours, each with up to 32 preset positions and dwell time, can be stored in

memory. Set up to sixteen sectors in a horizontal plane, each with its own identification title. In addition, eight programmable privacy zones can be set to prevent the viewing of selected scenes.

The i-dome housing provides a low profile installation and looks similar to a luminaire and creates very low wind loading.

The i-dome has been tested to withstand 120 mph (193 km/h) winds with 150 mph (241 km/h) gusts with no structural damage to the camera or support interface.

The dome provides maximum protection against grime and insects. It is rated IP67 and NEMA 4X and, additionally, meets NEMA power, shock/vibration, and operating temperature standards for TS-2 traffic control systems.

CohuHD delivers years of clean, reliable images and backs it with a world class two year warranty.

CAMERA

Sensor	1/4" Sony Ex-View HAD CCD
Scanning	2:1 Interlace
Pixel Array	811 x 508
Resolution	540 HTVL; 400 VTVL
Frame Rate	30 fps
Camera Format	Day/Night (IR Cut Filter)
Day/Night Modes	Auto, Color, B/W

SENSITIVITY @ 50 IRE

Color, 1/30, f1.6	1.0 lux (0.1 fc)
B/W, 1/30, f1.6	0.1 lux (0.01 fc)

SENSITIVITY @ 35 IRE

Color, 1/30, f1.6	0.55 lux (0.05 fc)
B/W, 1/4, f1.6	0.00018 lux (0.000018fc)

OPTICS

Zoom Lens	35 x, 3.4 to 119mm
Aperture	f1.4 -> f4.2
HAFOV	55° to 1.7°
Focus	Auto / Manual [Near, Far]
Iris	Auto / Manual [Open, Close]
Digital Zoom	12 x

IMAGE PROCESSING

Defog Mode	Not Available
Image Stabilization	Off/On [5 Hz or 10 Hz]
Dynamic Range	On/Off
Back Light Comp	On/Off
Shutter/Integration	1/2 -> 1/30,000
S/N Ratio	> 50db

POSITIONING DRIVE

Pan Range	360° continuous rotation
Tilt Range	5° to -90° [Continuous tilt with image flip and rotation at -90°]
Manual Pan Speed	0.1° to 80°/second
Manual Tilt Speed	0.1° to 40°/second
Peak Preset Speed	Maximum 250°/second
Preset Speed	< 2 seconds for 180° movement
Repeatability	+/- 0.1°
Resolution	+/- 0.1°
Presets	64, Includes pan, tilt, zoom, focus and preset ID
Tours	8, Includes 32 presets with individual dwell times
Patterns	Not Available
Auto Park	Returns to a preset or tour after timer expires, Timer Value [Off, 1 Minute to 999 Hours]
Sector Zones	8, Includes left/right boundary, enable/

disable state, 24 character title	
Privacy Zones	8, Includes left/right boundary, enable/disable state, blanks out video
Inverted Mounting	N/A

INTERFACE

Video	1.0 V p-p @ 75 ohms NTSC or PAL format
Serial PTZ	Half-duplex RS-422 (4-wire) or RS-232 (3-wire), 300 to 19.2K baud
Camera Protocols	Cohu, Pelco-D, Pelco-P, Bosch, Vicon
Firmware	Stored in flash memory; upload via serial port

ON SCREEN DISPLAY (OSD)

Title Generation

Camera ID	2 lines of 24 characters
Preset ID	1 Line of 24 characters
Sector ID	1 line of 24 characters per zone
Privacy ID	1 line of 24 characters per zone
Low Pressure	Alert, 1 line of 24 characters
Compass ID	Indicates direction of view in either 8 or 16 directions

MECHANICAL

Construction	Powder coated 110 aluminum. External parts corrosion protected with stainless steel fasteners.
Weight	14.0 lbs (6.3 kg)
Dimensions	11.0"D x 13.8"H [281 mm x 349 mm]
Connector Type	18 Pin MS
Shipping Dims	19 lbs, [8.6 Kg] 19" x 15" x 15" (482mm x 381mm x 381mm)

ELECTRICAL

Input Voltage	120 Vac or 24 Vac (Model dependent)
Power	40 W, 110 W with Heater ON
Line Variation	120 Vac complies with Nema TS2 para 2.1.2
Power Interruption	Conforms to NEMA TS2 para. 2.1.4
Power Transients	Conforms to NEMA TS2 para 2.1.6

ENVIRONMENTAL

Protection Rating	IP67, Pressurized with Dry Nitrogen, 3.5 psi
Operating Temp	-29.2° to 165°F (-34° to 74°C) Per NEMA TS2, para. 2.1.5.1, using fig. 2.1 test profile Note: Minimum operating temperatures are with a 2 hour warm-up.
Water Spray	Per IEC 60529+A1, 1999, Para 14.2.6, Solid water stream delivered thru 12.5mm nozzle @ 25 gallons/minute @ 9ft for 3 minutes
Humidity	0-100%
Vibration	Compliant to NEMA TS2 Para 2.1.9, 2.2.3, 2.2.8
Shock	Compliant to NEMA TS2 Para 2.1.10, 2.2.4, 2.2.9
Corrosion Prot.	Per Nema 250-2003, paragraphs 5.10
Wind Survivability	120 mph (193 km/h) with 25% gust factor. Mounting bracketry not included.

CERTIFICATIONS

FCC Class A
ASTM-B117 Marine

ACCESSORIES

Mounts	Wall: 7411420-001 Pole: 8518-2
Cables	CA295 Series, 120 Vac, RS422 CA296 Series, 120 Vac, RS232 CA292 Series, 24 Vac, RS232 CA255 Series, 24 Vac RS422
Connectors	Field Cable 1310230-011
Power Supplies	24Vac (IP66) 7411543-017 (175 Watts, 115Vac or 220Vac Input)



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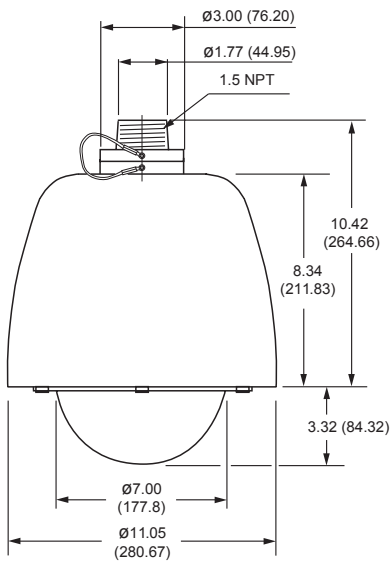
CohuHD reserves the right to change specifications without notice



ORDERING MODEL NUMBERS

PRODUCT MODEL STRUCTURE	
392 X - X X X X - X X X X	OPTION DESCRIPTION
392	PRODUCT SERIES
	392 IDOME IP67 STANDARD DEFINITION DOME CAMERA SYSTEM
	OPERATING POWER
4	24VAC OPERATING POWER
5	120VAC OPERATING POWER
	CAMERA OPTIONS
5	480P30 X35 NTSC CAMERA WITH EIS
8	480P30 X35 PAL CAMERA WITH EIS
	SOFTWARE OPTIONS
0	STANDARD SUITE
1	NTCIP 1205 OVER RS422
	UNASSIGNED
0	NONE
	DOMES
0	CLEAR
	MOUNTING OPTIONS
PEND	PENDENT MOUNT
WALL	WALL MOUNT
POLE	POLE MOUNT

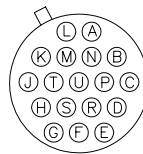
DIMENSIONS



NPT - National Pipe Thread

Overall Dimensions in inches (mm)

CONNECTOR PINOUT OPTIONS



Pin Location Diagram
MS-type Connector
View from the front (mating) side

Pin	MS Connector Pinouts	
	120 Vac	24 Vac
D		Ethernet Tx+
E		Ethernet Tx-
F		Ethernet Rx+
H		Ethernet Rx-
L		Composite Video Out
A		Video Return
P		Alarm/Data Gnd
C		Alarm1 In/Out
J		Alarm2 In/Out
K		Alarm3 In/Out
M		RS-422 Rx+
N		RS-422 Rx-
S		RS-422 Tx+
R		RS-422 Tx-
G		AC GND
B	SPARE	24 VAC HI
U	115 VAC HI	SPARE
T	115 VAC LO	24 VAC LO