## Series 3930<sup>HD</sup> H.264 High Definition IP67 Fixed Camera System









- Superior HD Image Quality
- Powerful 30x Optical Zoom
- Electronic Image Stabilization
- Defog/Dehaze Analytics
- H.264/MJPEG Codecs
- Web Server Configuration, Operation and Viewing
- **Automated Event Actions**
- Pressurized IP67 Protection
- **NEMA TS2 Temperature** Range, -40°C to 74°C

- NTCIP 1205 over IP **Communication Support**
- PoE+ Power
- Single Connector Simplicity
- Pendent, Wall, Pole and **Corner Mounting Options**
- **ONVIF Profile S Compliant**
- FCC, CE Certified

CohuHD's 3930<sup>HD</sup> fixed camera system combines crystal clear HD image quality, bandwidth efficient H.264 compression and IP67 protection delivering the Cohu quality and performance you expect!

The 3930<sup>HD</sup> includes a choice of 720p30 cameras with up to 30x\* optical zoom, delivering full frame rate HD images over the entire zoom range.

The built-in zoom capability enables up to 30x optical magnification in high definition and achieves quick subject tracking through its high speed auto focusing system. True day/ night technology using a removable IR cut filter produces exceptional low light sensitivity down to 0.005 lx\*.

For installations subject to wind or vibration, electronic image stabilization\* assures a steady, clear image and enables the system designer to utilize existing bridge sign and traffic light poles for camera mounting.

The 3930<sup>HD</sup> includes defog\* image processing capability, enhancing video performance in foggy conditions encountered in surveillance and traffic monitoring applications.

Providing multiple video stream capability, the 3930<sup>HD</sup> delivers two independently configured H.264 streams or an H.264 with MJPEG output. The 3930<sup>HD</sup> provides a full function web server, allowing complete administrative and operator control capabilities. Administrative features include configuring network settings, user password assignments, setting video streaming properties, configuring camera imaging properties and assigning camera ID labels.

The 3930<sup>HD</sup> is designed to operate in harsh weather with its IP67 enclosure protection. This eliminates the effects of water intrusion, pollutants and corrosives.

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











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CAMERA 18x CAMERA 30x CAMERA

Sensor Type 1/3" CCD 1/3" CCD Scanning System Progressive Progressive 1296 x 966 1296 x 966 Pixel Array Active Resolution 1280 x 720 1280 x 720 Frame Rate 30 fps 30 fps Camera Type Day/Night (IR Cut Filter) Day/Night (IR Cut Filter) Day/Night Modes Auto, Color, B/W Auto, Color, B/W

SENSITIVITY

0.5 lux (0.05 fc) Color, 1/30, f1.6, 50 IRE 1.8 lux (0.18 fc) Color, 1/30, f1.6, 30 IRE 0.74 lux (0.074 fc) 0.3 lux (0.03 fc) 0.05 lux (0.005 fc) Monochrome, 1/30, f1.6, 50 IRE 0.18 lux (0.018 fc) Monochrome, 1/4, f1.6, 30 IRE 0.02 lux (0.002 fc) 0.005 lux (0.0005 fc)

LENS/OPTICS

18x, 4.7 to 84.6mm 30x, 4.4 to 132mm Zoom Lens 1.4 -> 4.6 Aperture (f stop) 16->28 HAFOV 55.2° to 3.2° 62.9° to 2.2° Auto / Manual [Near, Far] Auto / Manual [Near, Far] Focus Iris Auto / Manual [Open, Close] Auto / Manual [Open, Close] Digital Zoom Not Available 2x

IMAGE PROCESSING

Not Available Off/On [5 Hz or 10 Hz] Image Stabilization Dynamic Range Mode On/Off On/Off Back Light Comp Mode On/Off On/Off Shutter/Integration 1/4 -> 1/10,000 1/4 -> 1/10,000 Defog Mode Not Available Off/On [3 Levels + Color Saturation] S/N Ratio > 50db > 50db

**VIDEO CONNECTIONS** 

IP VIDEO

Two (2) Individually RTP/RTSP Eight (8) H.264, Eight (8 Ethernet 802.3 Streams Network Format configurable streams **MJPEG** (100BaseT-TX) TCP, UDP, IPv4, IGMP, Codecs H.264 and MJPEG RTSP/Interleave Eight (8) H.264, Eight (8) Network Protocol **MJPEG** ICMP, DNS, DHCP, RTP, H.264 + H.264 Configurations RTSP, NTP, HTTP, ARP, H.264 + MJPEG RTSP Multicast Eight (8) H.264, Eight (8) ONVIF Profile S MJPEG Resolutions Stream 1 [720p, D1] Media Players VLC, Quick Time or any HTTP Multicast Unlimited, H.264 and Stream 2 [D1, CIF]] media player compliant **MJPEG** Frame Rates 30, 15, 7.5, 6, 5, 3.75, 3, with RFC 2326, 3984, 3550, HTTP Tunneling Two (2) H.264, Ten (10 2, 1.875, 1 [Note: Stream 2 2435, ISO/IEC 13818-1 **MJPEG** must be <= to Stream 1 frame **ONVIF Support** Profile S MPEG2 TS Unlimited, H.264 and Camera Protocols Cohu T, Profile S, NTCIP M.JPFG Data Rates Stream 1 [8 Mb to 256Kb] 1205

Four (4) Frames [0.133 sec] Camera Latency

Stream 2 [2 Mb to 256Kb]

Security Yes. 4 Levels

**NETWORK INTERFACE** 





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#### ON SCREEN DISPLAY (OSD)

#### IP VIDEO OSD

Up to four OSD elements are selectable for inclusion in the camera's two IP video streams.(Note: Three elements maximum on a single stream. The OSD elements display on top or bottom of image, on right side of video. The logo element displays on top or bottom of image on left side.

#### Standard Font Size

Camera Title 24 characters

Time/Date 24 Hour Format, Time Zone Logo Display xxx.bmp format, 96 x 96

pixels maximum, in multiples of 32 pixels

Large Font Size

Camera Title 15 characters

#### **EVENT MANAGEMENT**

#### DIGITAL I/O

Digital Inputs Two (2) Sensor Inputs, Dry

contact, N.O or N.C

Digital Outputs Two (2) Control Output, Open collector

**TRIGGERS** 

Internal Timer Interval [Off, 1 Second to

999 hours], Duration [ Off, 1 Second to Indefinate]

Digital Inputs Active Input Triggers Action

**ACTIONS** 

FTP Snapshot Captures Image and sends

to FTP site folder

Digital Output Activates a Digital Output

EMAIL Sends message to EMAIL

address

#### MECHANICAL

Construction Powder coated aluminum.

External parts corrosion protected with stainless

steel fasteners.

Weight 5.5 lbs (2.5 Kg) w/o wiper

9 lbs (4.1 kg) w/wiper

Dimensions No Wiper: 15.0" D x 5.1" W x

4.9" H [381 mm x 130 x 125] With Wiper: 15.0" D x 5.1" W x 7.5" H [381 mm x 130 x 191]

Connector Type 18 Pin MS

Shipping Dims 10 lbs [4.5 Kg], 20" x 13"  $\times$ 

13" [508 mm x 330 mm x

330 mm]

**ELECTRICAL** 

Input Voltage PoE+ 802.3at

Power 10 w heater/wiper off

25 w heater or wiper on Transients EN55022:2010

EN55024:2010

#### **ENVIRONMENTAL**

Protection Rating IP67, Pressurized with Dry

Nitrogen, 3.5 psi

Operating Temp -40°F to 165°F (-40°C to

74°C) Per NEMA TS2, para. 2.2.7.3 - 2.2.7.7 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 @

9 ft for 3 minutes

Humidity 0-100%

Vibration Per Nema-TS2 para 2.1.10,

2.2.4

Shock Per Nema-TS2 para 2.1.10,

2.2.4

Corrosion Prot. Per Nema 250-2003, para 5.10

#### CERTIFICATIONS

FCC Class A

CE

EN55022:2010 CISPR22 EN55024:2010 CISPR24

RoHS Directive 2011/65/EU Effective 1/2/2013

WEEE Effective 8/3/2012 ASTM-B117 Marine

#### **ACCESSORIES**

#### Mounts

7411498-001 Mast Arm Mount 7411498-002 Pole Mount 7411499-001 Pedestal Mount 7411499-002 Wall Mount

#### Cables

CA257 Series CA258 Series

#### Connectors

MS Type 1310230-011

**Power Supplies** 

PoE+ (IP50) 7411539-001

Wiper Blade

Replacement Assy 8139078-001

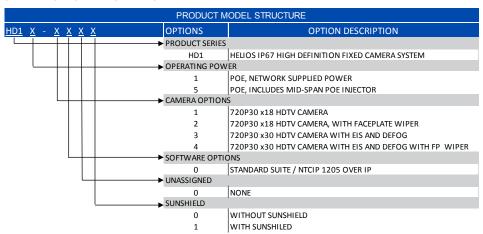




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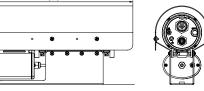
#### ORDERING MODEL NUMBERS



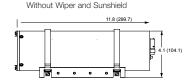
#### **DIMENSIONS**

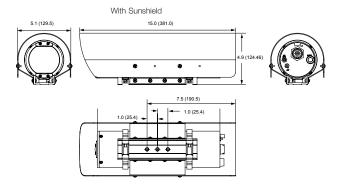
# 15.0 (381) • ₽⊨

With Wiper and Sunshield









Dimensions in inches (mm)

#### CONNECTOR PINOUT

Pin	Function
D	TX +
E	TX -
F	RX +
Н	RX -
В	POE +
С	POE +
Т	POE -
К	POE -
L	No Connection
Α	No Connection
R	No Connection
S	No Connection
J	ALM IN 1
M	ALM IN 2
N	ALM 3 (I/O)
P	ALM 4 (I/O)
G	ALM COM
U	Cable Shield





