## COHUIHD

## Series 3120<sup>HD</sup>

H.264 High Definition

<u>IP67 Dome Positioning System</u>





- Superior HD Image Resolution
- Powerful 30x Optical Zoom
- Electronic Image Stabilization
- Defog/Dehaze Analytics
- H.264/MJPEG Video Codecs
- Web Server Configuration, Operation and Viewing
- Wide Range, Variable Speed, Smooth Positioning Movements
- Presets, Tours, Patterns, Sectors and Privacy Masks
- Automated Event Actions

- Two Input, Two Output Digital I/O Support
- Pressurized IP67 Protection
- Temperature Range of -41°C to 75°C, with extended operation to 80C
- NTCIP 1205 over IP Communication Support
- 24Vac or PoE+ Power Input
- Single Connector Simplicity
- Pendent, Wall and Pole and Mounting Options
- ONVIF Profile S Compliant
- CE Certification

CohuHD's 3120<sup>HD</sup> dome positioning system combines crystal clear HD image quality, bandwidth efficient H.264 compression, smooth variable speed positioning and pressurized IP67 protection delivering the CohuHD quality and performance you expect!

The  $3120^{\text{HD}}$  includes a high definition 720p30 camera with a 30x optical zoom power, 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 3120HD includes a defog/dehaze image analytics, enhancing video performance in snowy, rainy, hazy and foggy conditions encountered in surveillance and traffic monitoring applications.

The 3120<sup>HD</sup> includes a variable hi-speed pan and tilt drive, with 360° continuous pan and +5 to -90° tilt. Fast positioning speeds result in 180° movements in less than two seconds.

Providing multiple video stream capability, the 3120<sup>HD</sup> delivers two independently configured H.264 streams or an H.264 with MJPEG.

The 3120<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, defining presets, tours, patterns and assigning camera ID labels.

The 3120<sup>HD</sup> is designed to operate in harsh weather with its pressurized 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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**H.264 High Definition IP67 Dome Positioning System** 



#### POSITIONING DRIVE

Pan Range 360° Continuous Rotation Tilt Range 5° to -95° [Continuous tilt with image flip and rotation at

Pan Speed 0.5° to 110°/Sec Tilt Speed 0.5° to 90°/Sec Preset Speed < 1 seconds for 180°

movement Manual Pan Speed 0.5° to 110°/second

Manual Tilt Speed 0.5° to 90°/second Peak Preset Speed Maximum 350°/second Preset Speed < 1 second for 180° movement

Repeatibility  $+/-0.1^{\circ}$ Resolution +/- 0.1°

Presets 64, Includes Pan, Tilt, Zoom 4, Inloudes 27 Presets with Tours individual dwell times

4, Up to 40 minutes of Patterns recorded patterns

Auto Park Returns to a Preset, Tour or Pattern after timer expires,

Timer Value [ Off, 1 Minute to 999 Hours]

8. Includes left/right Sector Zones

boundary, enabled/disabled state. 24 Character Title

Privacy Zones 8 user programmable masks

Not Applicable Inverted Operation

#### CAMERA

1/3" CCD Sensor Scanning Progressive Pixel Array 1296 x 966 Resolution 1280 x 720 Frame Rate 30 fps

Camera Format Day/Night (Removable IR Cut)

Day/Night Modes Auto, Color, B/W

### SENSITIVITY @ 50 IRE

0.5 lux (0.05 fc) Color, 1/30, f1.6 B/W. 1/30, f1.6 0.05 lux (0.005 fc)

#### SENSITIVITY @ 30 IRE

Color, 1/30, f1.6 0.3 lux (0.03 fc) B/W, 1/4, f1.6 0.005 lux (0.0005fc)

#### OPTICS

30 x, 4.4 to 132mm Zoom Lens Aperture f1 4 -> f4 6 HAFOV 62.9° to 2.2°

Focus Auto / Manual [Near, Far] Iris Auto / Manual [Open, Close]

Digital Zoom 2 x

#### IMAGE PROCESSING

Off/On [3 Levels + Color Defog Mode Saturation1

Image Stabilization Off/On [5 Hz or 10 Hz] On/Off

Dynamic Range Back Light Comp On/Off

Shutter/Integration 1/4 -> 1/10,000 S/N Ratio > 50db

#### IP VIDEO

Streams Two (2) Individually configurable streams Codecs H.264 and MJPEG Configurations H.264 + H.264, H.264 +

**MJPEG** 

Resolutions Stream 1 [720p, D1), Stream

2 [D1, CIF)

Frame Rates 30, 15, 7.5, 6, 5, 3.75, 3, 2,

1.875, 1 (stream 2 must be <= to stream 1 frame rate) Stream 1 (6 Mb to 256 Kb);

Data Rates Stream 2 (2 Mb to 256 Kb)

Camera Latency Four (4) Frames (0.133 sec.)

#### VIDEO CONNECTIONS

RTP/RTSP Eight (8) H.264, Eight (8)

**MJPEG** 

RTSP Interleave Eight (8) H.264, Eight (8) MJPEG

RTSP/SDP Multicast Eight (8) H.264, Eight (8) **MJPEG** 

HTTP/SDP Multicast Unlimited, H.264 and MJPEG HTTP Tunneling Two (2) H.264, Ten (10

MPEG2 TS Unlimited, H.264 and MJPEG

HTTP MJPEG Pull HTTP MJPEG Push Ten (10)

#### **NETWORK INTERFACE**

Network Format Ethernet 802.3 (100BaseT-TX) Network Protocol TCP, UDP, IPv4, IGMP,

ICMP, DNS, DHCP, RTP RTSP, NTP, HTTP, ARP,

ONVIF Profile S

Media Players VLC, Quick Time or any media

player compliant

with RFC 2326, 3984, 3550.

2435, ISO/IEC 13818-1

ONVIE Profile S

Cohu T, Profile S, NTCIP 1205 Camera Protocols Security

Yes, 4 Levels

#### 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

#### Standard Font Size

Camera Title 24 characters Preset ID 24 characters Sector Zone 24 characters

Positiion 3 characters, absolute or

compass reading

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

Positiion 3 characters (pan absolute or

compass reading)

### **EVENT MANAGEMENT**

DIGITAL I/O

Digital Inputs Two (2) Sensor Inputs, Dry

contact, N.O or N.C

Digital Outputs Two (2) Control Outputs,

Open collector, 500mA sink

#### TRIGGERS

Internal Timer Interval [Off. 1 Second to

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

Digital Inputs Active Input Triggers Action

#### ACTIONS

Presets Activates a Camera Preset FTP Snapshot Captures Image and sends to

FTP site folder Digital Output Activates a Digital Output

**EMAIL** Sends message to EMAIL

address





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H.264 High Definition **IP67 Dome Positioning System** 



**MECHANICAL** 

Construction/Finish Powder coated aluminum. External parts corrosion

protected with stainless steel

fasteners.

Weight 12 lbs [5.4 Kg]

Dimensions 11.0"D x 13.8"H [281 mm x 349

mm]

Connector Type 18 Pin MS Shipping Dim's 17 lbs, [7.7 Kg] 19" x 15" x 15"

(482mm x 381mm x 381mm))

**ELECTRICAL** 

24 Vac or PoE+, Auto Detect Input Voltage

PoE+: 15 W heater off, Power

30 watts max. 24 Vac: 15 W heater off,

60 watts max.

Transients/Surge CISPR 24

**ENVIRONMENTAL** 

IP67, Pressurized with Dry Protection Rating

Nitrogen, 3.5 psi

Operating Temp

PoE+ Power

Extended

24Vac Input -42°F to 167°F (-41°C to 75°C) Per NEMA TS2,

para. 2.2.7.3 - 2.2.7.7,

Profile 2-1 using CohuHD specified temperatures.

-30°F to 167°F (-34°C to 75°C) Per NEMA TS2,

para. 2.2.7.3 - 2.2.7.7, Profile 2-1 using CohuHD

specified temperatures Hi-Temp Range of 176F [80 C]

up to 17 Hours

No Heaters Minimum without heaters -13F

[-25 C]

Note: Minimum operating temperatures require a minimum 2 hour warm-up with heaters on.

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

Salt Spray ATSM-B117 CERTIFICATIONS

FCC Class A CE

CISPR 22/24

**ACCESSORIES** 

Mounts

Wall 7411420-001 Pole 8518-2

Cables

CA275 Series

Connectors

Field Cable Mate 1310230-211

Power Supplies

PoE+ (IP50) 7411539-001

24Vac (IP66)

7411543-010 (96 Watts, 115Vac

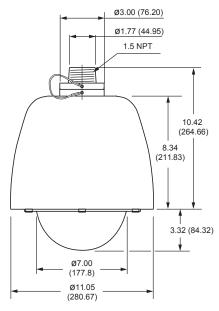
or 220Vac Input)

ORDERING MODEL NUMBERS

3124-1000 IP67, HD 720p, 30x PTZ Dome

+ Two Alarm I/O

#### **DIMENSIONS**



NPT - National Pipe Thread

#### CONNECTOR PINOUT OPTIONS



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

PIN	SIGNAL	PIN	SIGNAL
F	Ethernet RX+	R	24 Vac Low
н	Ethernet RX-	s	24 Vac High
D	Ethernet TX+	U	Chassis/Earth Ground
E	Ethernet TX-	N	Alarm 1 Out
В	Ethernet POE Vdc+	Р	Alarm 2 Out
С	Ethernet POE Vdc+	J	Alarm 1 In
Т	Ethernet POE Vdc-	М	Alarm 2 In
к	Ethernet POE Vdc-	G	Alarm Common











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