



Advanced Night Vision Performance

- ASI uncooled micro bolometer technology
- 384 x 288 and 640 x 480 resolution, 17um FPA options
- Superior thermal sensitivity of 40 mK
- Flexible lens options to suite application and budget requirements
- Long range detection out to 4km

Superior Daytime Imaging

- Visible spectrum daytime color camera available on 3492-2x00 models
- HD 1280 x 720 image quality
- Autofocus, wide view optics
- Supports daytime thermal imaging for improved situational awareness

Rugged Construction

- Wide operating temperature range, -40°C to 75°C, per Nema TS-2 Test Profile figure 2.1
- Durable IP66 ingress protection
- 2 year standard warranty

Installation and Interoperability

- ONVIF Profile S
- H.264 Base/Main/High profiles and MJPEG encoding
- Web server configuration, operation and viewing
- Single CAT5e/CAT6 cable with PoE+
- Wall, pole mounting options

Embedded Analytics

- Real-time scene analysis
- User defined region of interest
- Fence line filters
- Object direction filters
- Learning tagrets capabilities

CohuHD Costar 3490HD series is a state of the art observation system, boasting an incredibly easy installation with day and night capabilities and a dedicated software development kit for full seamless third party integration.

The 3490HD series of cameras is a broad portfolio of high performance outdoor rated cameras for 24/7 perimeter surveillance, observation, and monitoring of critical infrastructure and sensitive sites.

Equipped with thermal and visible-light channels for day and night surveillance, the 3490HD series meets global ONVIF standards to ensure interoperability of hardware and software products for easy integration to both existing and new infrastructures, regardless of manufacturer.

The 3490HD series is designed for supporting embedded video analytics, enabling enhanced security and surveillance solutions by providing all in one camera.

Activating the analytics functionality provides real time alerts based on user defined rules.

The 3490HD series Video Analytics is accurate and is capable of monitoring and analyzing human, vehicle or a pre-learned object per view.

The 3490HD series of cameras are ruggedly designed to withstand the harshest weather and environmental conditions, including rain, direct sunlight, high humidity, dust, heat, and cold.

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



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3490HD Series

H.264 Dual Channel Night-Vision Camera



NIGHT-VISION THERMAL CAMERA

| | |
|--------------------|--|
| Detector | Asi Uncooled Microbolometer |
| Pixel Size | 17µm |
| Spectral Band | 7.5 - 14 µm |
| Sensitivity (NEdT) | 40 mK |
| Image Resolution | 640 x 480 (VGA) or 384 x 288 model dependent |
| Pallettes | Black hot, white hot, 3 color pallettes |
| Frame Rate | 25Hz or 9Hz |
| Properties | Polarity, NUC, Image Flip, Image Rotation & Digital Zoom |

THERMAL OPTICS OPTIONS

| | |
|------------|---|
| Options | 8.5mm, 14mm, 19mm, 25mm, 35mm, 50mm, 60mm |
| Lens Type | Athermalized, Hard Carbon |
| Focus Type | Factory set to Infinity |

DAY-TIME VISIBLE CAMERA*

| | |
|------------|-------------------|
| Sensor | 1/4" CMOS |
| Resolution | 1280 x 720 (HD) |
| S/N Ratio | >36 db |
| Lens | 3.5mm fixed focal |
| Aperture | f1.4 |
| AFOV | 54° x 41° |
| Focus | Auto |

* Available on 3492-2x00 Models Only

IP STREAM

| | |
|------------------|-------------------------|
| Video Streams | 2 |
| Video Codec | H.264, MJPEG |
| Video Protocols | RTSP Unicast, Multicast |
| Video Resolution | |
| - Visible Camera | 1280 x 720, 640 x 480 |
| - Thermal Camera | 640 x 480 or 384 x 288 |

NETWORK INTERFACE

| | |
|------------------|--|
| Network Format | 802.3u 100Base-T, MDI-X auto-sensing, full duplex |
| Network Protocol | TCP, UDP, IPv4, ICMP, DNS, IGMPv2/v3, RTP, RTSP, HTTP[S], SOAP SSL/TLS |
| ONVIF | Profile S |

DIGITAL I/O INTERFACE

| | |
|------------------|------------------------|
| Digital Circuits | One input, dry contact |
|------------------|------------------------|

ANALYTICS

| | |
|--------------------|--|
| Analysis | On board based on the raw video data. |
| Learning | Self-scene |
| Configuration | Real-time scene analysis and alarms based on user definable parameters |
| Region of Interest | Up to 15 per scene |
| Fences | Up to 15 per scene |
| Direction | Entrance/detection can be defined by the operator |
| Learning targets | Human, vehicle, other object |
| Object Size | Minimum target size for detection is 6x4 (HxW) pixels |

ELECTRICAL

| | |
|----------------------------|--|
| Input Voltage | PoE+ or 12-32Vdc |
| Power | Up to 25.5w |
| Transient/Surge Emmissions | Certified to CISPR 24 levels Certified to CISPR 22 levels |

MECHANICAL

| | |
|------------|---|
| Weight | 6.94 lbs (3.2 kg) |
| Dimensions | 7.95" (L) x 5.32" (W) x 6.65" (H) 202mm (L) x 135mm (W) x 169mm (H) |

ENVIRONMENTAL

| | |
|--------------------|---|
| Ingress Protection | IP66 |
| Operating Temp | -40°C to 75°C Per Nema TS-2 Test Profile figure 2.1 |

EMC CERTIFICATIONS

| |
|--------------------------|
| CE, FCC Class A Part 15B |
|--------------------------|

ACCESSORIES

| | |
|---------------|--------------------------|
| Mounts | |
| Wall | 892013 |
| Pole Adapter | 892037 (requires 892013) |

Power Supplies

| | |
|-------------|-----------------------------------|
| 7412007-003 | 110/220vac IP50, -34 to 74C, PoE+ |
|-------------|-----------------------------------|

WARRANTY

Two (2) years. Details available at; www.cohuhd.com/Support/Warranty

RANGE TARGET CRITERIA

| Ordering Model | Lens Option | HAFOV | Range Values in meters | | | | | |
|----------------|-------------|-------------------|------------------------|-----|-------|---------|-------|-------|
| | | | Human | | | Vehicle | | |
| | | | ID | REC | DE | ID | REC | DET |
| 3492-1100 | 8.5mm | 43.5 ⁰ | 42 | 83 | 250 | 96 | 192 | 575 |
| 3492-1200 | 14mm | 25.7 ⁰ | 69 | 137 | 412 | 158 | 316 | 947 |
| 3492-1300 | 19mm | 19.3 ⁰ | 92 | 186 | 559 | 214 | 428 | 1,285 |
| 3492-1400 | 25mm | 14.8 ⁰ | 123 | 245 | 735 | 282 | 564 | 1,591 |
| 3492-1500 | 35mm | 10.6 ⁰ | 172 | 343 | 1,029 | 396 | 789 | 2,368 |
| 3492-1600 | 50mm | 7.5 ⁰ | 245 | 490 | 1,471 | 564 | 1,127 | 3,382 |
| 3492-1700 | 60mm | 6.2 ⁰ | 294 | 588 | 1,765 | 676 | 1,353 | 4,059 |
| 3492-2100 | 8.5mm | 73.2 ⁰ | 42 | 83 | 250 | 96 | 192 | 575 |
| 3492-2200 | 14mm | 42.1 ⁰ | 69 | 137 | 412 | 158 | 316 | 947 |
| 3492-2300 | 19mm | 33.2 ⁰ | 93 | 186 | 559 | 214 | 428 | 1,285 |
| 3492-2400 | 25mm | 24.2 ⁰ | 123 | 245 | 735 | 282 | 564 | 1,691 |
| 3492-2500 | 35mm | 17.6 ⁰ | 172 | 343 | 1,029 | 395 | 789 | 2,368 |
| 3492-2600 | 50mm | 12.4 ⁰ | 245 | 490 | 1,471 | 564 | 1,127 | 3,382 |
| 3492-2700 | 60mm | 10.3 ⁰ | 294 | 588 | 1,765 | 576 | 1,353 | 4,059 |

ID = 12 pixels through critical dimension Critical Dimension of Subject Note: Ideal atmospheric and scene conditions assumed
 REC = 6 pixels through critical dimension Human = 1.8m x 0.6m
 DET = 2 pixels through critical dimension Vehicle = 2.3m x 2.3m

About CohuHD Costar™

CohuHD Costar is a leading manufacturer of high-definition video systems designed to satisfy the demanding performance requirements for critical infrastructure applications. CohuHD solutions integrate the latest high-definition video imaging and compression technologies into ruggedized camera products for monitoring in critical, sensitive environments.