

3210HD Series

Temperature Measurement Thermographic System



3212-1000



3212-2000



3212-9000

Advanced Thermal Performance

- IRFPA uncooled micro bolometer technology
- 320 x 240 and 400 x 300 resolution options
- Superior thermal sensitivity of <50 mK
- On-board temp-detection algorithm
- Accuracy 0.3°C or 0.5°F
- Body detection
- Response time 50ms
- 14 color palettes

Superior Daytime Imaging

- Visible spectrum daytime color camera
- HD 1920 x 1080 image quality
- Autofocus, wide view optics
- Supports daytime thermal imaging for improved situational awareness

Rugged Construction

- Wide operating temperature range
- Durable IP66 ingress protection
- 2 year standard warranty

Installation and Interoperability

- Network IP Video and Management
- ONVIF Profile S and G support
- H.265/H.264 and MJPEG encoding
- Single CAT5e/CAT6 cable with PoE+
- Wall, Ceiling mounting options

CohuHD Costar is proud to showcase our latest intelligent Thermal Imaging Radiometric Detection and Thermal Measurement system.

The CoHuHD Costar 3210HD series is a state-of-the-art thermographic system boasting both optical and thermal imagers.

Using internal analytics, the 3210HD Series cameras produce a visible light image with thermal data overlaid on the image.

Within a predefined alert area if the reading exceeds a specified temperature a virtual box will turn red and flash the capture value on the screen.

The 3210HD series is ONVIF profile G compliant to ensure easy operation and integration with third party VMS platforms already on the market.

When installed with the 3212-9000 calibration device, consistent temperature readings can be captured with a high degree of accuracy.

Thermographic cameras are intended to be used in schools, commercial, Retail, Financial, Nursing Homes, or Transportation environments.

When used as part of a wholistic system for screening, no solution is better positioned to deliver trusted and accurate results.

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



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(858) 391-1800

THERMAL CAMERA

Detector	Uncooled IRFPA
Resolution/Pixel Size	
3212-1000	320 x 240, 20 μ m
3212-2000	400 x 300, 17 μ m
Spectral Band	8 - 14 μ m
Sensitivity (NE Δ T)	
3212-1000	50 mK @ F1.0
3212-2000	40 mK @ F1.0
Frame Rate	25Hz
Image	Polarity LUT, DVE, Mirror, FCC, 3D DNR Brightness, Contrast, ROI
Palettes	Black-Heat/White-Heat/Rainbow/Iron-Red up to 14 modes
Lens Type	Fixed
Focus Control	Manual
Focal Length	8mm, F1.0
AFoV	
3212-1000	44° x 33°
3212-2000	46° x 35°

VISIBLE CAMERA

Sensor	
3212-1000	1/2.8" CMOS
3212-2000	1/1.9" CMOS
Scanning	Progressive
Resolution	1080p [1,920 x 1,080]
Frame Rate	25 fps
Shutter (AES)	1/2 -> 1/64,000
Camera Format	Day/Night (IR Cut Filter)
S/N Ratio	>55 db
Sensitivity	(f1.2, 1/5, AGC ON)
Color	0.1 lux (0.01 fc)
B/W	0.01 lux (0.001 fc)
Lens	2.8 to 12mm
Aperture	f1.6 -> f2.9
HAFOV	105° ~ 32°

IP STREAM

Video Streams	Two (2) Video Streams
Video Codec	H.265, H.264, MJPEG
Video Data Rate	Up to 8Mbps
Video Rate Cntrl	Variable or Constant

EMBEDDED INTELLIGENCE

Smart Alarm	Motion detection, Disk alarm, I/O alarm, Temperature alarm, IVS alarm
IVS	Smart Body Detection, Perimeter, Single Virtual Fences, Double Virtual Fences, Object Left, Object Removed

NETWORK INTERFACE

Ethernet	RJ-45 (10/100Base-T)
Protocols:	IPv4/IPv6, HTTP, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, SIP, 802.1x
Interoperability	ONVIF, CGI, SDK
Streaming Method	Unicast
Max. User Access	10 Users
Edge Storage	NAS, Local PC for instant recording, Micro SD 128GB
Web Viewer	Chrome, Firefox
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian

TEMPERATURE DETECTION

Detection Mode	Body temperature monitoring
Detection Preset	Max 16 goals
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy	$\leq 0.3^{\circ}\text{C}$ (Emission rate, distance, ambient temperature, etc.)
Response Time	$\leq 50\text{ms}$
Temp Range	$-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim 140^{\circ}\text{F}$)
Display Mode	Temp. target $> 5^{\circ}\text{C}$; Display absolute temp. value; Temperature target $\leq 0.5^{\circ}\text{C}$; Display relative temp. value (temperature difference DEV= highestvalue-avg)

ELECTRICAL

Input Voltage	DC12V/POE (IEEE 802.3af)
Power	10W

MECHANICAL

Weight	4.4 lbs (2 kg) Camera
Dimensions	Refer to dimensional diagram
Construction	Metal

ENVIRONMENTAL

Protection Rating	IP66
Operating Temp	$-30^{\circ}\text{C} \sim 60^{\circ}\text{C}$ ($-22^{\circ}\text{F} \sim 140^{\circ}\text{F}$)
Storage Conditions	0% ~ 90% RH

BLACK BODY CALIBRATION TOOL

Operating Temp.	$0^{\circ}\text{C} \sim 40^{\circ}$ ($2^{\circ}\text{F} \sim 104^{\circ}\text{F}$)
Measurement Range	$5^{\circ}\text{C} \sim 50^{\circ}$ ($50^{\circ}\text{F} \sim 122^{\circ}\text{F}$)
Emissive Area	70mm x 70mm
Temp. Resolution	0.1°C (0.18°F)
Accuracy	$\pm 0.2^{\circ}$ @ 40°C $\pm 0.36^{\circ}$ @ 104°F
Stability	$\pm 0.1^{\circ} \sim 0.2^{\circ}\text{C} / 30\text{min}$ $\pm 0.18^{\circ} \sim 0.36^{\circ}\text{F} / 30\text{min}$
Emissivity	.97 ± 0.02
Power Supply	220Vac @ 50Hz, 50 W
Operating Temp.	$0^{\circ}\text{C} \sim 40^{\circ}$ ($2^{\circ}\text{F} \sim 104^{\circ}\text{F}$)
Humidity	$< 80\%$ N.C
Dimensions	110(W) x 120(H) x 180(D) mm 4.3(W) x 4.72(H) x .71(D) in
Weight	1.8kg (3.97 lb)

CERTIFICATIONS

CE, FCC
[Not intended for medical use]

ORDERING INFORMATION

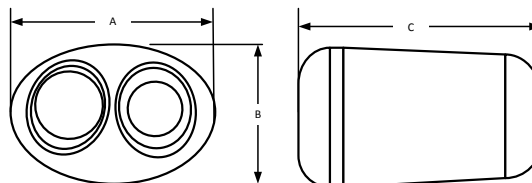
3212-1000 320x240 Resolution Thermal Camera
3212-2000 400x300 Resolution Thermal Camera
3212-9000 Portable Black Body Calibration Tool

ACCESSORIES

Wall Mount	
3210HD Series	7411801-001 (all devices)
Ceiling Mount	
3212-1000	7411801-002
3212-2000	7411801-002
3212-9000	7411801-003

DIMENSIONS

Dimension	3212-1000		3212-2000	
	Inches	mm	Inches	mm
A	6.81	173	7.17	182
B	4.72	120	5.35	136
C	8.27	210	8.35	212



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