COHU

Series 7510^{HD}
H.264 1080p30
Fixed Camera System

- ▶ HDTV 1080p30 Image Quality
- ▶ H.264 Main Profile Video Compression
- ▶ RTP/RTSP Streaming Protocol
- ▶ Sensitive Day/Night Technology
- ▶ On-Board Recording using SDHC
- ▶ Flexible Event Management Programming
- ▶ Digital I/O Connections
- ▶ Pre-Post Event Recording

- ▶ Power-over-Ethernet 802.3af Support
- ▶ Send Snapshots and Video to FTP Site
- ▶ Automated Event Timer with Snapshot Capture
- ▶ Web Configuration, Viewing and Control

The 7510^{HD} series is the latest addition to Cohu's expanding family of HDTV products, offering best-in-class image quality, event management processing and network stability you can rely on.

The performance standards of the 7510^{HD} series are ideal for requirements encountered in security surveillance and remote monitoring applications. Its robust design insures years of continuous operation even in the most demanding environments.

Using a powerful encoding engine, the 7510^{HD} is capable of streaming multiple, individually configured H.264 and MJPEG streams.

Features include full HD resolution video of 1080p30 (1920 x 1080), H.264 and MJPEG video compression codecs, on-board SDHC recording, configurable image settings, and powerful event management processing.

Event triggers include external sensor inputs, video motion detection, user commands and periodic timers.

Event actions include activating an alarm output, store video recordings, send snapshots and video clips to an FTP site, as well as email event notifications.

Designed with the installer in mind, an analog video output, along with remote back focus, makes installation easy.

Using the One-Touch-Focus feature for sharp images greatly reduces installation time and allows fine focus adjustments from a remote computer, eliminating the need for manual focus adjustments at the camera.

Network and security features include static or dynamic IP addressing, domain name, bandwidth limit setting, authentication rules and network time server support.

The 7510^{HD} provides a full function web server interface, allowing complete administrative and operator control capabilities. Administrative features include configuring network settings, user password assignments, setting video streaming properties, event management programming and assigning camera ID labels.

Access to the camera is fully protected by username/password authentication.

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

IP | H.264 | HD 1080 | MJPEG | DAY/NIGHT | Onvif

Series 7510^{HD}

Camera

SENSOR CHARACTERISTICS

Sensor Type: 1/3" CMOS

Scanning Mode: Progressive

Active Pixels: 1920 x 1080

Resolution/Frame Rate: 1080p30

Shutter: Rolling

Camera Format: Day/Night [IR filter]

IR Range (nm): 800 to 940

Dynamic Range: 70dB

SENSITIVITY (SCENE, F1.4, USABLE VIDEO)

Color Mode: 0.02 fc (0.2 lux)

Mono Mode: 0.005 fc (0.05 lux)

LENSES

Mount: CS, C with Adaptor Ring

Formats: 1/3", 1/2", 2/3" and 1"

Iris Drive: Manual Iris Only

Focus: Manual [One Touch-Remote-Focus]

IMAGE CONFIGURATION PROPERTIES

Shutter: Auto, Optimize Speed, Optimize Quality

Saturation: Manual [0-1.98]

Contrast: Manual [0.00 -1.00]

Brightness: Manual [0.2 to 1.0]

White Balance: Auto [Selectable Region of Interest]

Integration Level: Disabled, 2x, 4x

Sharpness: High, Medium, Low, XLow

Orientation: Normal, 180°, Horizontal, Vertical

Gain: Peak Detect, Dark Detect, Average, Average Clip

AC Lighting Flicker Adjustment: 50Hz, 60Hz

Cropping: Yes

Encoding

VIDEO STREAMS

Compression Types: H.264 or MJPEG

Video Streams:

Three (3) Individually Configurable Streams

Each Stream Configurable for H264 or MJPEG

Video Stream Resolutions:

Stream 1: [1080p, 2M, 1.2M, 720p, 480p, VGA, SIF, QVGA]

Stream 2: [480p, SIF]

Stream 3: [480p, SIF]

Video Stream Frame Rate: 30, 15, 10, 7.5, 5, 4, 3, 2, 1

Video Stream Data Rate: 256Kb to 11Mb

Video Stream Latency: 4 frames (133 msec)
(Does not include network routing or client rendering latency)

Analog Video: NTSC or PAL [Enabled/Disabled]

AUDIO

Codec: Two-way, G.711 PCM 8K Hz

Built-in Microphone, Mic/Line in, Line out

Event Input/Output

DIGITAL I/O

Sensor Input: One (1) dry contact, NO or NC

Control Output: One (1) Open Collector

VIDEO MOTION DETECTION

VMD Array: 12 x 8 Detection Cell Grid

Windows: Up to 4 Monitored Simultaneously

Regions of Interest: [1 x 1 up to 12 x 8]

Region of Interest Modes: Include, Exclude, Disable

Sensitivity: [1-255]

Size: [0-100]

Event Management

EVENT TRIGGERS

External Alarm Input

Video Motion Detection

User Command

Timer

EVENT ACTIONS

Activate Alarm Output

Record Pre/Post Event Snapshots and Video

FTP Snapshot, Video or Both

Email Snapshot, Video or Both

ON-BOARD RECORDING

Type: Class 6 SDHC flash cards

Memory: Up to 32GB

Format: mp4

Playback: Download to client

Web Server Capabilities

CONFIGURATION SETTINGS

Network, Video Stream, Image Properties, OSD, Security and Upgrades

AUTHENTICATION

None, Basic [User/Password], Access Hours, HTTPS, Certificate

BROWSER SUPPORT

Internet Explorer™, Firefox™, Safari™, Chrome™, Opera™, or Mozilla

MEDIA PLAYER SUPPORT

VLC Player, Apple QuickTime, Windows Media Player, and Core Player

Communication Interfaces

NETWORK

Ethernet: 10/100BaseT, 802.3u

Network Protocols:

TCP/IP, HTTP, HTTPS, DHCP, UDP, RTP, RTSP, DNS, ARP, ICMP, NTP, UPnP, ZeroConf, APIPA, CIFS, SNMP, UDP multicast, FTP, SMTP, Telnet,

VIDEO

ONVIF, PSIA, Cohu 7500 SDK

On Screen Display (OSD)

ELEMENTS

Camera Description ID: Up to 31 Characters

Time/Date: Time Zone Setting [Disable/Enable]

COHU

Electrical

INPUT VOLTAGE
PoE 802.3af, 24 Vac, 12-24 Vdc

POWER
8 watts

Connections

SDHC CARD SLOT
Used for on-camera recording, [SDHC card not included]

NETWORK CONNECTOR
RJ-45, [Ethernet and Power-over-Ethernet]

POWER CONNECTOR
Captive 2-pin screw terminal for 12-24 Vdc or 24 Vac power

ANALOG VIDEO OUT
2.8mm connector. Use analog video cable adapter 7411550-004 [not included]

RESET BUTTON
Sets camera back to factory default settings

MICROPHONE
Built-in mono microphone

AUDIO/TRIGGER CONNECTOR
For connecting an external microphone, amplified loudspeakers, alarm trigger input, and outputs to external devices

Mechanical

WEIGHT
12.45 oz (353g)

DIMENSIONS {D X H X W}
6.136" [155.9mm] x 2.3" [58.6mm] x 3.039" [77.2mm]

CONSTRUCTION/FINISH
Powder coated aluminum

MOUNTING
1/4 - 20 mounting thread. Provided on top and bottom of camera for attachement to camera mount.

Environmental

TEMPERATURE RANGE
50° to 122° (10°C to 50°C)

Certifications

EMISSIONS
FCC, class B part 15
EN 55022: 1998 with A1: 2000, A2: 2003; Class A
CISPR 22: 1997 with A1: 2000, A2: 2002; Class A
AS/NZS CISPR 22: 2002; Class A

IMMUNITY
EN 55024: 1998 with A1: 2001, A2: 2003
CISPR 24: 1997 with A1: 2001, A2: 2002

SAFETY
EN 60950-1: 2001 with A11: 2004
IEC 60950-1: 2001

ROHS
All material and/or components used in the manufacture of the product are in compliance with the EU Directive 2002/95/EC Restriction of Hazardous Substance (RoHS).

Accessories

LENSES
7411549-001 Lens, 1/2", 12-40mm, f1.8, manual iris, CS mount
7411549-002 Lens, 1/2", 4-12mm, f1.4, manual iris, CS mount
7411549-003 Lens, 1/3", 2.8-12mm F1.4, manual iris, CS mount
7411549-004 Lens, 1/2", 1.8-3mm F1.8, manual iris, CS mount

MOUNTS
7411522-001 Universal wall/ceiling mount, adjustable head, 3.5" extension

POE INJECTOR
8180-4   PoE 802.af Injector, US Plug

POE ADAPTER PLUGS
7411555-001 Plug Adapter, Brazil
7411555-002 Plug Adapter, Europe
7411555-003 Plug Adapter, India
7411555-004 Plug Adapter, UK
7411555-005 Plug Adapter, US

ANALOG VIDEO CABLE
7411550-004 Analog Video Cable Adapter, 2.8mm jack to BNC

COHU

COHU ELECTRONICS
12367 Crosthwaite Circle
Poway CA 92064-1245
Tel. +1 (858) 391-1800
Fax: +1 (858) 513-1094

Camera Modeling Structure

751 X - X X X X	MODEL OPTIONS	OPTION DESCRIPTION
	PRODUCT SERIES	
	751	Box Camera System, 1080p30 H.264/MJPEG, Digital I/O, Audio
	Power Options	
	1	PoE, 12-24VDC, 24VAC
	Sensor Options	
	2	Day/Night 1920 X 1080 CMOS Sensor
	Unassigned	
	0	None
	Unassigned	
	0	None
	Lens Options	
	0	No Lens
	1	Varifocal, 12-40MM, F1.8, IR corrected
	2	Varifocal, 2.8-12MM, F1.4, IR corrected
	3	Varifocal, 1.8-3MM, F1.4, IR corrected

Camera Views

www.cohu-cameras.com