Honeywell

HCD5HIH

equIP® SERIES 1080p TRUE DAY/NIGHT H.264 INDOOR BOX IP CAMERA

From Honeywell's equIP® Series of IP-based products, the HCD5HIH is a high definition, True Day/Night network camera that offers the latest in digital video surveillance. The HCD5HIH provides 1080p (1920 x 1080) resolution at full frame rate. Progressive scan technology and 2D edge enhancement provide outstanding clarity and definition. Digital Noise Reduction (DNR) results in significant storage savings without sacrificing image quality in low light. The 1/2.7" CMOS network camera combines world-class imaging and camera technology with the equIP Series IP networking technology, providing streaming H.264 and MJPEG images with frame rates up to 30 frames per second (25 fps for PAL systems). The HCD5HIH supports the PSIA specification for interoperability between network video products.

The HCD5HIH true day/night camera adapts to varying lighting conditions to ensure the highest picture quality even in extreme low-light conditions. When the light level drops too low for accurate video identification in color, the camera moves the IR cut filter out of the optical path and then switches to black and white mode to capture more detail using the CMOS sensor's increased sensitivity to IR light.

A powerful and intuitive web client allows fine tuning of the camera and the auto iris levels. This can also be performed from most NVR setup utilities.

The HCD5HIH supports dual video streams and multiple compression formats. The compression parameters for the two video streams are independently configurable. The primary stream is dedicated to H.264. The secondary stream can be configured for H.264 or MJPEG. The HCD5HIH features analog video out for aiming and focusing during setup.

The HCD5HIH has built-in Power over Ethernet (IEEE 802.3af), which allows power to be supplied to the camera using standard network cabling, eliminating the need for a separate power supply and associated wiring. In situations where PoE support does not exist, the unit can also be powered directly from 24 V AC.

Market Opportunities

The HCD5HIH is a network surveillance solution designed for object recognition that is required in locations where variable and low-light conditions exist. Setup is quick and easy and can be customized through a web client or from an NVR. This provides optimum performance for indoor applications, as well as outdoor applications when using an environmental housing.

(Lens sold separately)

HD

PSIA

Features

- Outstanding image quality, 1080p (1920 × 1080) resolution

- 30 fps (25 fps PAL) progressive scan

- H.264 and MJPEG compression

- PSIA support

- Camera tamper detection

- Video motion detection

- Variable day/night threshold setting to accommodate switching to black and white images in low light

- Dual digital video streams, independently configurable, H.264 and/or H.264/MJPEG

- Remote firmware update

- Supports both dynamic and static IP address assignment

- Includes advanced IP locator software to make system setup easy

- Web server for remote setup of camera video and network parameters

- Choice of 24 V AC or PoE IEEE 802.3af power inputs

- Multiple levels of password protected remote access prevents unauthorized users from altering system settings
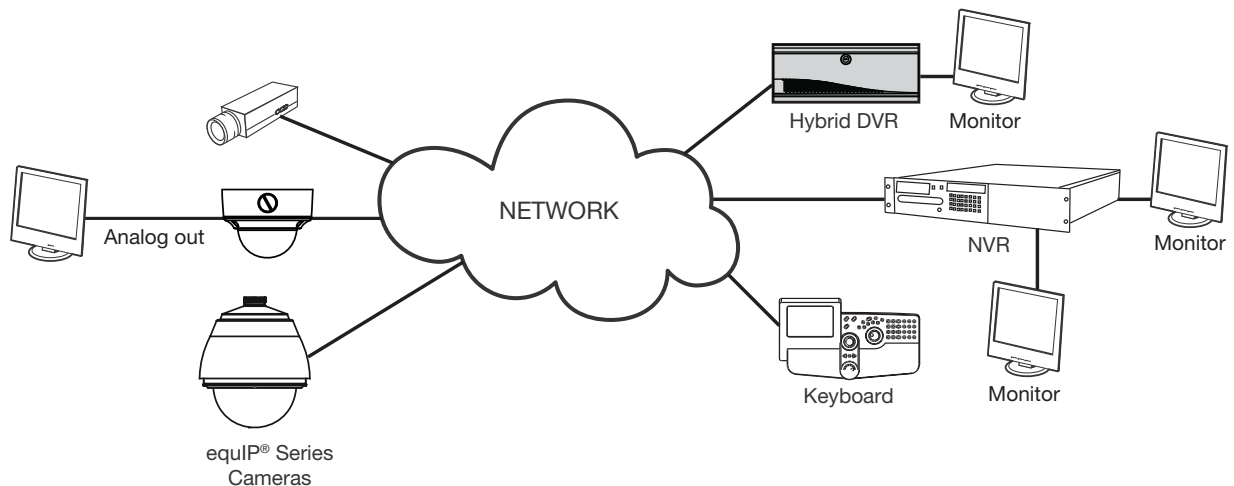
- Supports bidirectional audio

SPECIFICATIONS

Like all cameras in the equIP® series of IP-based products, the HCD5HIH network camera uses Honeywell technology for camera video motion detection, tamper detection, remote firmware updating and for secure storage of all camera settings. Video motion detection recognizes object motion within the field of view; then a simple on-screen notification alerts the user. Camera tamper detection notifies the user when a camera's field of view is altered, blinded or blurred. This ensures the video's integrity and alerts the customer to either a live event or a system problem that is causing disruption to the video stream. Honeywell's technology also allows users to remotely upload firmware to the camera. Setup is quick and easy and can be customized through a web client or from an NVR. The built-in web server provides password protected access to the camera's video and network setup.

System Diagram

HCD5HIH

SPECIFICATIONS

Operational

Video Standard	NTSC, PAL
Scanning System	Progressive scan
Image Sensor	1/2.7" CMOS
Number of Pixels (H x V)	1920 × 1080
Minimum Illumination	0.18 lux color/0.15 lux BW @ 50 IRE, F1.2 0.11 lux color/0.09 lux BW @ 30 IRE, F1.2
Automatic Lens Control	DC Iris Level 1-25
Video Output (AUX)	1.0 Vp-p @ 75 ohms
S/N Ratio	50 dB or more (AGC off)
Auto Gain Control	Off/On, selectable (20-40 dB)
Automatic Electronic Shutter	1/30 – 1/130,000 sec (NTSC) 1/25 – 1/130,000 sec (PAL)
White Balance	Auto, Manual, WBC Push
Audio/Two-Way	Line in/out

Electrical

Input Voltage	24 V AC, PoE IEEE 802.3af
Input Range	17-28 V AC
Surge Suppression	1.5 kW transient
Power Consumption	5.0 W (max) 24 V AC PoE: PD Type 1 Class 2

Mechanical

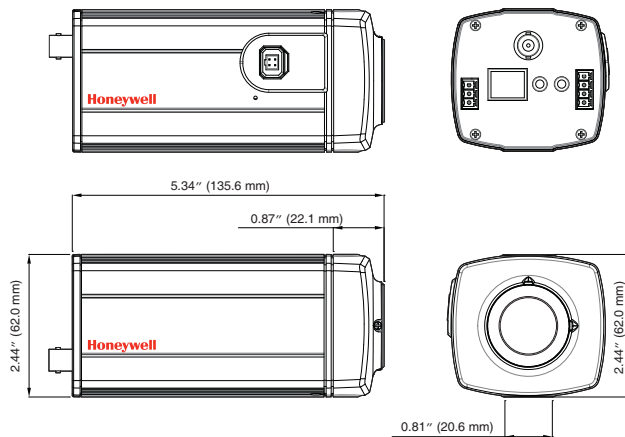|	
Dimensions (W x H)	5.34" x 2.44" (135.6 mm x 62.0 mm)
Weight	1.1 lb (0.5 kg) camera only
Construction	Housing: Aluminum Finish: Cool Gray Powder Coat
Camera Mount	1/4-20 UNC mounting ring
Connector	Video Output: BNC connector Lens: 4-pin connector Power Input: Removable screw block Network: RJ45 connector Alarm I/O: Removable screw block Audio In: 3.5 mm mono phone jack Audio Out: 3.5 mm mono phone jack

Environmental

Temperature	Operating: 14°F to 122°F (-10°C to 50°C) Storage: -4°F to 140°F (-20°C to 60°C)
Relative Humidity	0% to 85%, non-condensing

IP Specifications

Video Compression	Dual stream H.264 and MJPEG		
Resolution	Bitrate H.264 (Typical)*	Frame Rate	Storage/Day (GB)
1920 × 1080 1280 × 720 800 × 450 640 × 360 320 × 180	3.0 Mbps 1.4 Mbps 0.75 Mbps 0.4 Mbps 0.2 Mbps	30/25 30/25 30/25 30/25 30/25	31.6 14.8 7.91 4.22 2.11
Frame Rate NTSC/PAL	Up to 30/25 fps video in all resolutions		
Video Streaming	Dual streaming: H.264 and MJPEG Controllable frame rate and bandwidth Constant or variable bit rate		
Security	Multiple user access levels with password protection		
Video Access from Web Browser	Full control of all camera settings available to administrator		
Minimum Web Browsing Requirements	Pentium IV CPU 3.1 GHz or faster 1 GB RAM (32-bit) or 2 GB RAM (64-bit) Windows XP® SP3, Windows 2003 Server R2 (32-bit), Windows 7 (32-/64-bit), Windows 2008 Server (32-/64-bit), Windows 2008 R2 (64-bit) Internet Explorer 6, 7, 8, or 9		
Installation and Management Maintenance	Honeywell IP Utility software identifies the IP address, discovers cameras, supports firmware upgrades		
Supported Protocols	HTTP, TCP, RTSP, RTP, UDP, ARP, DNS, RTCP, FTP, ICMP, DHCP, Bonjour, IGMP, Telnet		
Standards	PSIA support		

Regulatory

Emissions	FCC, CE (EN55022)
Immunity	CE (EN50130-4)
Safety	EU: EN60950-1 North America ETL listed to UL/CSA 60950-1

*Actual bitrate is scene and motion dependent.

SPECIFICATIONS

System Integration
Open IP Integration
PSIA support and open API for real interoperability between Honeywell and other manufacturer's IP-enabled security devices. Refer to the Honeywell Open Technology Alliance [http://www.security.honeywell.com/hota/] to learn more about our open and integrated solutions.

Accessories	
Housing and Mounts	
HBC5WT	Wall/ceiling mount bracket
HHCWM	Environmental housing**
HHCWM2	Environmental housing w/ heater/blower**
Recommended Lens Options*	
HLM45V13MPD	4.5-13.2 mm high definition megapixel lens

NOTES:
* Only a high definition megapixel lens should be used with the HCD5HIH camera.

** When the HCD5HIH is installed in the HHCWM or HHCWM2 environmental housing, the finished assembly performs well in environments ranging from 5°F to 140°F (-15°C to 60°C) for HHCWM, or -40°F to 140°F (-40°C to 60°C) for HHCWM2.

5.34″ (135.6 mm)

0.87″ (22.1 mm)

2.44″ (62.0 mm)

2.44″ (62.0 mm)

0.81″ (20.6 mm)

Ordering	
HCD5HIH	Network TDN Box Camera, 1/2.7" Progressive Scan, CMOS, 1080p Resolution, 24 V AC or PoE IEEE 802.3af, H.264, NTSC
HCD5HIHX	Network TDN Box Camera, 1/2.7" Progressive Scan, CMOS, 1080p Resolution, 24 V AC or PoE IEEE 802.3af, H.264, PAL

NOTE: Honeywell reserves the right, without notification, to make changes in product design or specifications.

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