HCD5MIHX

720P TDN H.264 NETWORK CAMERA

Honeywell's latest addition to the EQUIP® Series of IP-based products, the HCD5MIHX is a high definition, True Day/Night network camera that offers the latest in digital video surveillance. The HCD5MIHX provides 720p resolution at full frame rate. The 1/4" CMOS network camera combines world-class imaging and camera technology with our EQUIP Series IP networking technology, to provide streaming H.264 and MJPEG images at up to 30 fps (25 fps for PAL systems). The HCD5MIHX supports the PSIA specification for interoperability between network video products.

The HCD5MIHX day/night camera adapts to varying lighting conditions to ensure the highest picture quality even in extreme low light. When the light level drops too low for accurate video identification in colour, the camera moves the IR cut filter out of the optical path and then switches to black and white video to capture more detail using the increased sensitivity of the CMOS sensor to IR light.

Setup is quick and easy and can be customised through a web client or from an NVR. The web client also allows fine tuning of the camera and auto iris levels. This can also be performed from most DVR/NVR setup utilities.

The HCD5MIHX supports dual video streams and multiple compression formats. The digital compression parameters for the two video streams are independently configurable. A third analogue stream can be utilised as backup or for local viewing. This is also valuable when retrofitting onto an existing analogue input DVR or encoder (full resolution not available).

The HCD5MIHX has built-in Power over Ethernet (IEEE 802.3af) Class 1, 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 retrofit situations where PoE switching does not exist, the unit can also be powered directly from 24 VAC.

Market Opportunities

The HCD5MIHX is a network surveillance solution designed for object recognition in locations where variable and low light conditions exist. This provides optimum performance for both indoor and outdoor applications.

(lens available separately)

Features

- Outstanding image quality, 720p (1280 x 720) resolution
- 30 fps (25 fps PAL) progressive scan
- H.264 and MJPEG compression
- PSIA support
- Camera tamper detection
- Variable day/night threshold setting to accommodate switching to black and white images in low light

- Dual digital video streams simultaneously, independently configurable
- Remote firmware update
- Supports both dynamic and static IP addresses
- Includes advanced IP locator software to make system setup easy

- Web server for remote setup of camera video and network parameters
- Choice of 24 VAC or PoE IEEE 802.3af Class 1 power inputs
- Multiple levels of password protected remote access prevents unauthorised users from altering system settings
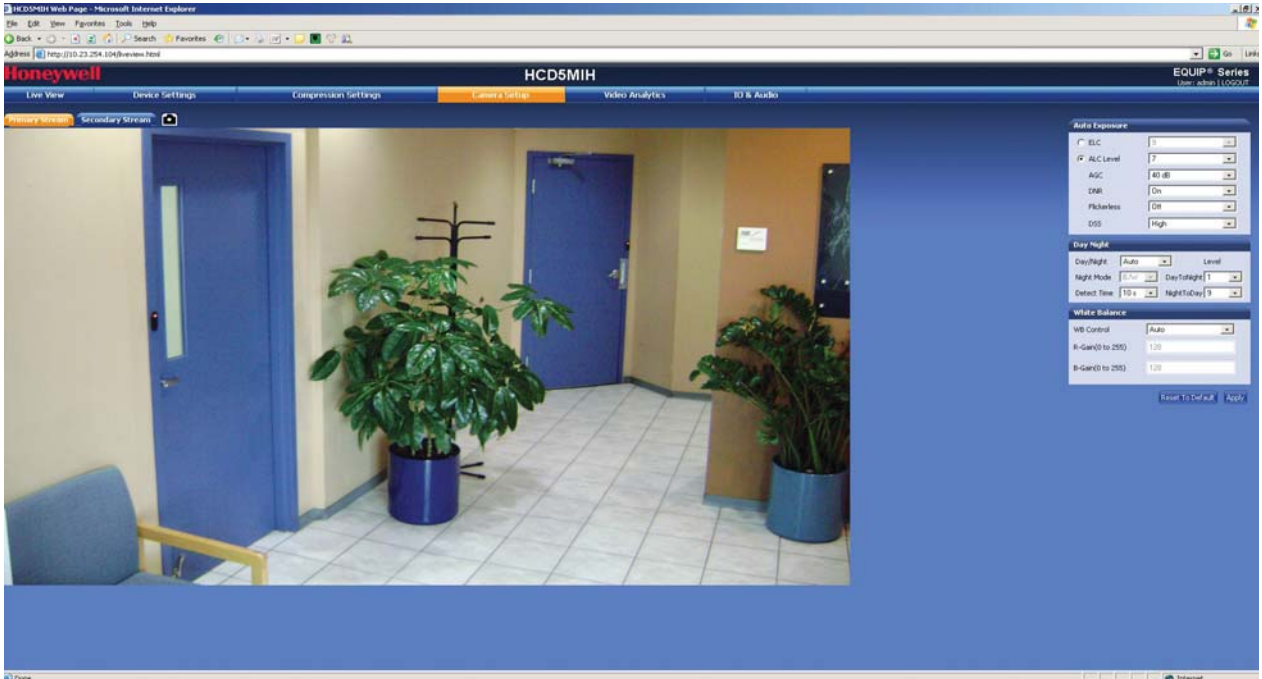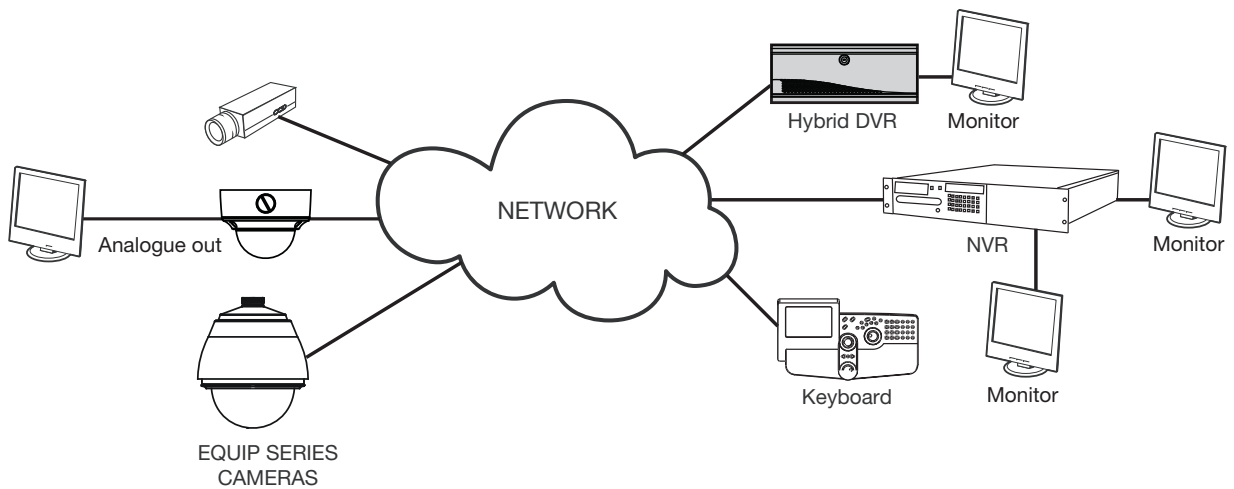- Supports bidirectional audio

HCD5MIHX

SPECIFICATIONS

Like all cameras in the EQUIP IP Series, the HCD5MIHX network camera uses Honeywell technology for video motion detection, tamper detection, remote firmware updating and for secure storage of all camera settings. 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 customised through a web client or from an NVR or DVR. The built-in web server provides password protected access to the camera's video and network setup.

System Diagram

HCD5MIHX

SPECIFICATIONS

Operational	
Video Standard	NTSC, PAL
Scanning System	Progressive scan
Image Sensor	1/4" CMOS
Number of Pixels (H x V)	1280 x 720
Minimum Illumination	0.6 lux colour/0.4 lux BW @ 50 IRE, F1.3 0.25 lux colour/0.15 lux BW @ 30 IRE, F1.3
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 (10-40 dB)
Automatic Electronic Shutter	1/60-1/24,500 sec (NTSC) 1/50-1/24,500 sec (PAL)
White Balance	AWC, AWC Push, Manual
Audio/Two-Way	Line in/out

Electrical	
Input Voltage	24 VAC, PoE IEEE 802.3af, Class 1
Input Range	17-28 VAC
Surge Suppression	1.5 kW transient
Power Consumption	5.0 W (max) 24 VAC 3.5 W (max) PoE

Mechanical	
Dimensions (W x H x D)	See Diagram
Weight	0.5 kg camera only
Construction	Housing: Aluminium Finish: Cool Grey 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: -10°C to 50°C Storage: -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)
1280 x 720	1.8 Mbps	30/25	18.98
800 x 450	1.2 Mbps	30/25	12.65
640 x 360	0.6 Mbps	30/25	6.33
320 x 180	0.21 Mbps	30/25	0.89
Frame Rate NTSC/PAL	Up to 30/25 fps video in all resolutions		
Video Streaming	Dual streaming: Controllable frame rate and bandwidth Constant or variable bit rate		
Security	Multiple user access levels with password protection		
Users	1 Administrator, 3 Guests		
Video Access from Web Browser	Camera live view for 1 client. Full control of all camera settings available to administrator		
Minimum Web Browsing Requirements	Pentium IV CPU 3.0 GHz or equivalent AMD, 512 MB RAM, AGP graphics card (32 MB RAM) Windows® XP 2000, Internet Explorer 6.0 or later		
Installation and Management Maintenance	Honeywell IP Utility software identifies the IP address, checks status of device, firmware upgrades over HTTP		
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 (EN55024)
Safety	EU: 2001/95/EC GPSD, UL 60950-1

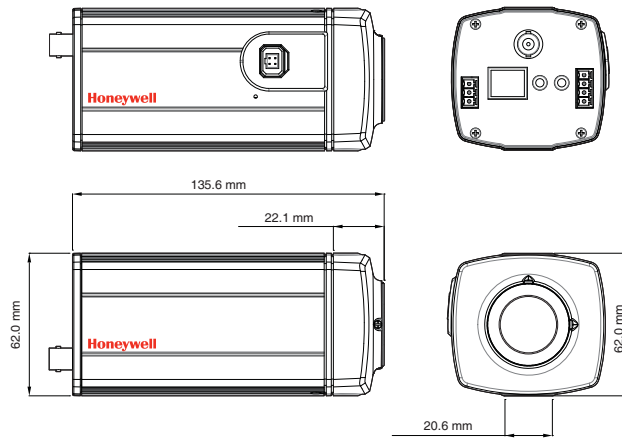*Actual bitrate is scene and motion dependent with H.264 stream.

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SPECIFICATIONS

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

Accessories	
Housing and Mounts	
HBC5WT	Wall/ceiling mount bracket
Recommended Lenses	
HLD3V8MPD	3-8mm High definition megapixel lens
HLM45V13MPD	4.5-13.2mm High definition megapixel lens

NOTES:
Only a high definition megapixel lens should be used with the HCD5MIHX camera.

135.6 mm
22.1 mm
62.0 mm
62.0 mm
20.6 mm

Ordering	
HCD5MIHX	Network True Day/Night, 1/4" Progressive Scan, CMOS, 720p Resolution Camera, 24 VAC or PoE IEEE 802.3af Class 1, H.264, PAL

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

For additional information,

please visit www.honeywell.com/security/uk

Honeywell Security Group

Aston Fields Road

Whitehouse Industrial Estate

Runcorn

Cheshire

WA7 3DL

Tel: 08448 000 235

www.honeywell.com

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