HD4HDIHX

EQUIP® SERIES 1080p TDN H.264 RUGGED INDOOR/OUTDOOR IP DOME CAMERA

Honeywell's latest addition to the EQUIP® Series of IP-based products, the HD4HDIHX is a high definition, True Day/Night rugged indoor/outdoor fixed mini-dome network camera. This ultra compact and vandal-resistant camera provides extremely crisp images at minimal bandwidth. The HD4HDIHX 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 results in significant storage savings without sacrificing image quality in low light. The 1/2.7″ progressive scan CMOS sensor offers the latest in digital video surveillance technology with accurate colour rendition through a wide variety of lighting conditions. The HD4HDIHX also supports the PSIA specification for interoperability between network video products.

The HD4HDIHX integrates a camera and lens in a ultra compact, single piece, vandal-resistant unit for fast and easy installation in any application. The camera comes complete with surface and flush mounting options. Wall and pendant mount kits are also available. In addition to the low light colour performance, the camera will automatically switch to black and white. In this mode, lighting can be complemented with infrared for discreet/covert low light surveillance with exceptional monochrome images.

A 3-D axis gimbal capable of 360° of pan, 180° of tilt and 360° of horizontal rotation simplifies mechanical camera adjustment. The Motorized Focus and Zoom (MFZ) lens allows the field of view to be adjusted to suit the scene requirements and an integrated analogue output is provided for the installer to connect a local test monitor while adjusting the scene. 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 HD4HDIHX supports dual video streams and multiple compression formats with rates up to 30 frames per second (25 fps for PAL systems). The digital compression parameters for the two video streams are independently configurable. The HD4HDIHX features analogue video out for aiming and focusing.

With built-in low current Power over Ethernet (IEEE 802.3af), power is 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 HD4HDIHX is perfect for installations where excellent picture clarity at minimal bandwidth is required. At three times the resolution of standard analogue cameras, yet with similar bandwidth requirements, the HD4HDIHX can be retrofitted on many existing NVR installations without requiring additional storage. Its discreet, vandal-resistant, outdoor design provides maximum protection against dust, dirt and water, and provides optimum performance for both indoor and outdoor applications.
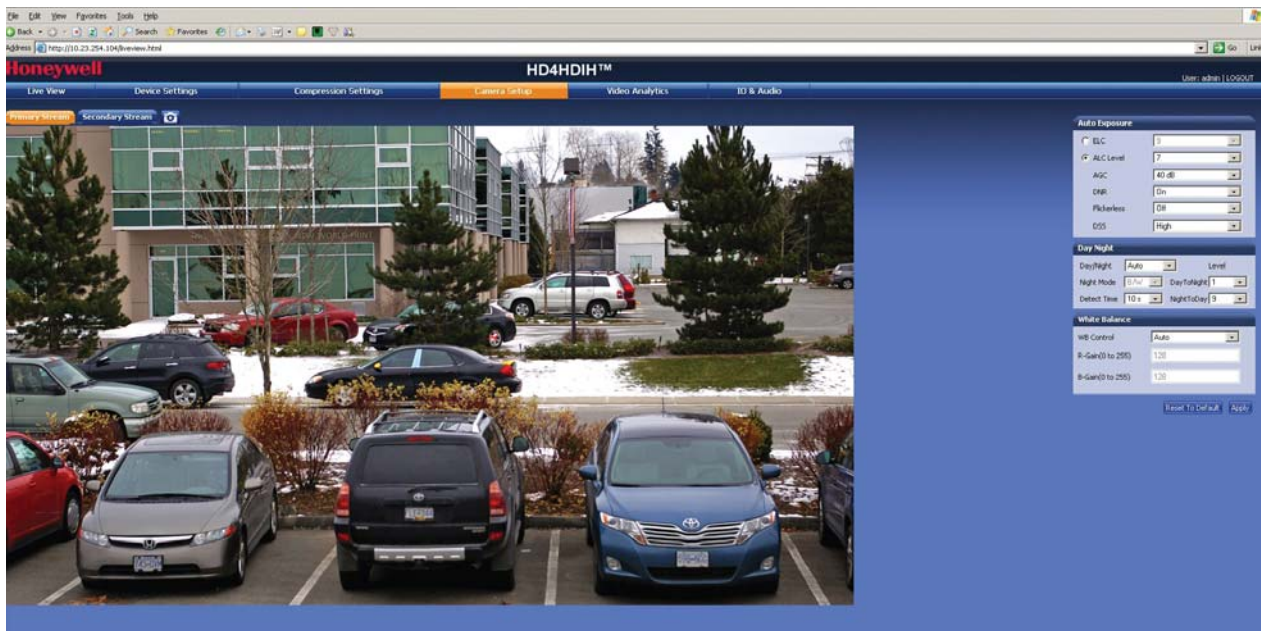
Features

- Outstanding image quality, 1080p (1920 × 1080) resolution
- 30 fps (25 fps PAL) progressive scan
- True Day/Night, 3-9 mm MFZ lens with removable IR cut filter
- Camera tamper detection
- Video motion detection
- Wall and pendant mount kit available

- Selectable compression formats
- PSIA support
- 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 power inputs
- Supports input and output alarm contacts
- Supports bidirectional audio
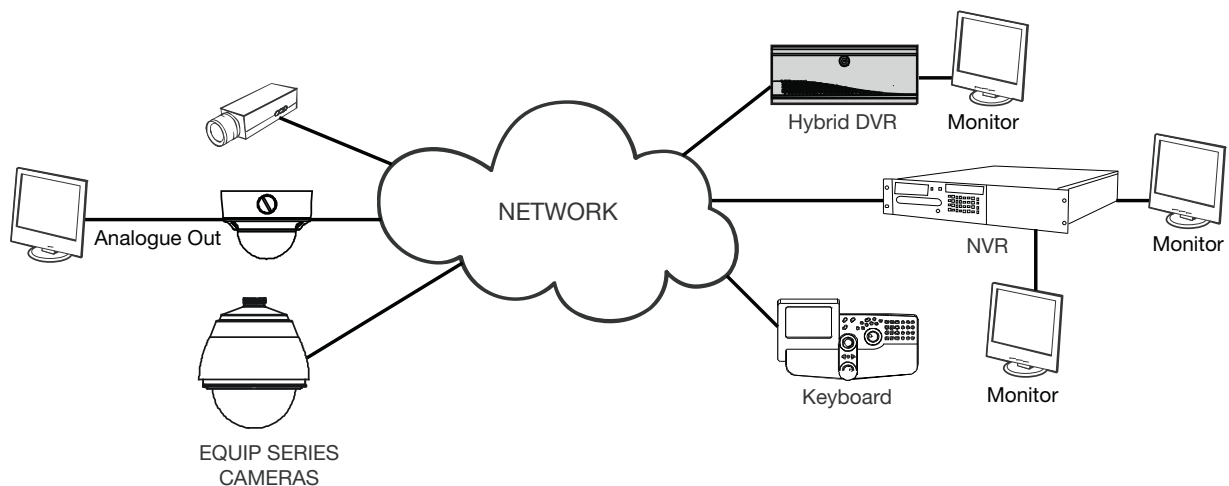- Rugged polycarbonate dome

HD4HDIHX

SPECIFICATIONS

Like all cameras in the EQUIP IP Series, the HD4HDIHX network camera uses Honeywell technology for video motion detection, tamper detection, remote firmware updating and for secure storage of all camera settings. Video motion detection recognises 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 customised 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

HD4HDIHX

SPECIFICATIONS

Operational

Video Standard	NTSC, PAL
Scanning System	Progressive scan
Image Sensor	1/2.7" CMOS
Number of Pixels (H x V)	1920 × 1080 (1080p)
Minimum Illumination	0.25 lux colour/0.22 lux BW @ 50 IRE, F1.2 0.11 lux colour/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) 1/30 - 1/130,000 sec (PAL)
Lens Type	True Day/Night (TDN), 3-9 mm Motorized Focus and Zoom, F1.2

Angle of View		Wide	Tele
	Horizontal	93.0°	31.7°
	Vertical	68.4°	23.8°

White Balance	Auto, Manual, WBC Push
Audio/Two-Way	Line in/out

Electrical

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

Mechanical

Dimensions (W x H x D)	See Diagram
Weight	1.3 kg camera only
Construction	Housing: Die Cast Aluminium Finish: Cool Grey Powder Coat Dome: Polycarbonate
Connector	Video Output (AUX): 2-pin Molex connector Power Input: Removable screw block Network: RJ45 connector Alarm I/O: Removable screw block Audio In: Removable screw block Audio Out: Removable screw block

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		

Primary Stream Resolution	Bitrate H.264 (Typical)*	Frame Rate	Storage/Day (GB)
1920 x 1080	3.0 Mbps	30/25	31.6
1280 × 720	1.4 Mbps	30/25	14.8
800 × 450	0.75 Mbps	30/25	7.91
640 × 360	0.4 Mbps	30/25	4.22
320 × 180	0.2 Mbps	30/25	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 2 GB RAM Windows XP®, Windows 7 (32/64), Windows 2K8 (64) 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

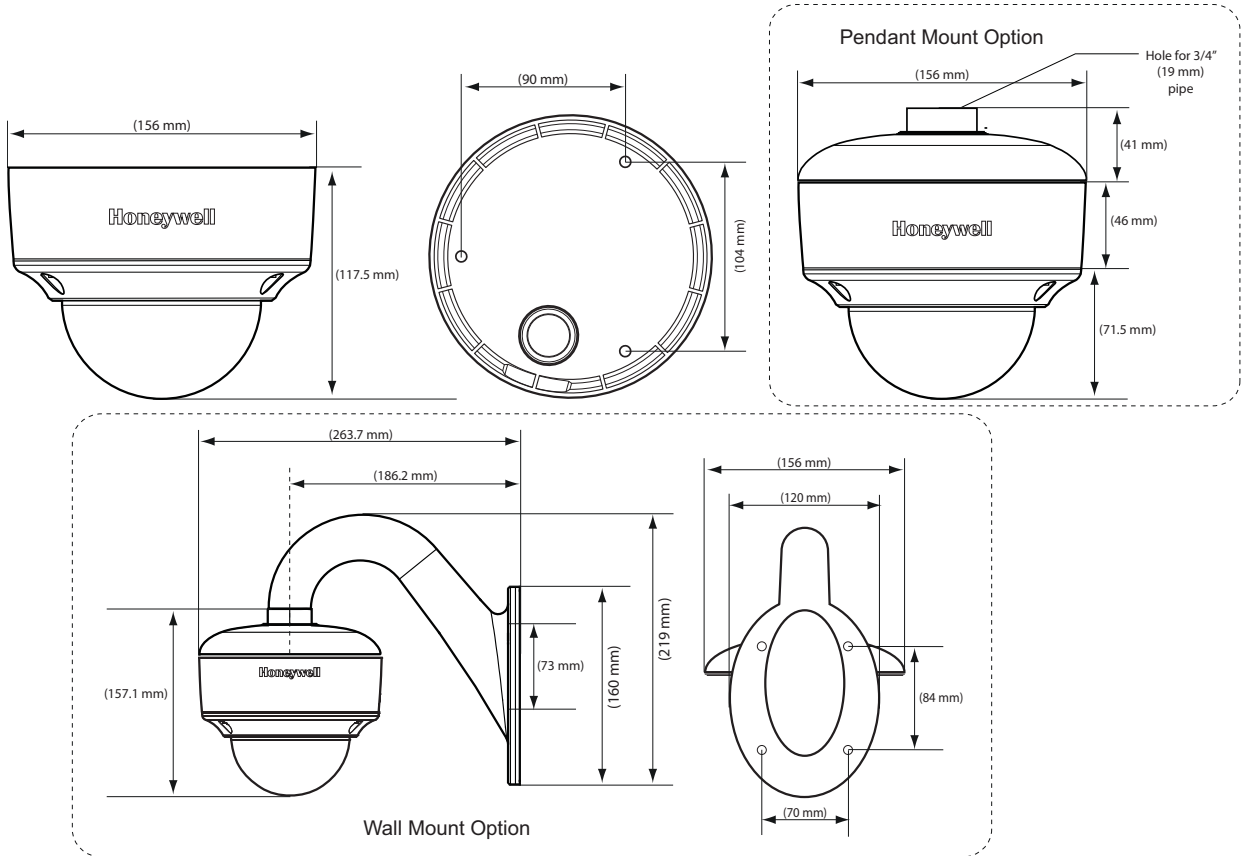|	
Emissions	FCC, CE (EN55022)
Immunity	CE (EN50130-4)
Safety	EU: EN60950-1:2006

*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 manufacturer's 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	
HD4DIP-PK	Pendant Mount Bracket
HD4DIP-WK	Wall Mount Bracket

Pendant Mount Option

Wall Mount Option

Ordering	
HD4HDIHX	Network True Day/Night Rugged Fixed Dome, 1/2.7" Progressive Scan, CMOS, 1080p Resolution Camera, 3-9 mm MFZ, 24 VAC or PoE IEEE 802.3af, 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

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