

H3D1F

equiP® SERIES 720P VFAI TRUE DAY/NIGHT H.264 INDOOR FIXED MINIDOME IP CAMERA

Honeywell's latest addition to the equiP® Series of IP-based products, the H3D1F is a high definition, True Day/Night indoor fixed minidome network camera engineered to provide extremely crisp images at minimal bandwidth.

The H3D1F provides 720p 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 1/4" progressive scan CMOS sensor offers the latest in digital video surveillance technology with accurate colour rendition through a wide variety of lighting conditions. The H3D1F also supports the ONVIF specification for interoperability between network video products.

The compact, one piece design provides fast and easy installation in any application. The camera comes complete with surface and flush mounting options (compatible with a 4S electrical box) and an optional wall/pendant mount kit is 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 Vari-focal Auto Iris lens allows the field of view to be adjusted to suit the scene requirements.

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

The H3D1F supports dual video streams and multiple compression formats with frame rates up to 25 frames per second (30 fps for NTSC systems). 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 H3D1F features analogue video out for aiming and focusing during setup.

With built-in low current Power over Ethernet (IEEE 802.3af), Class 1, power is supplied to the camera using standard network cabling, eliminating the need for a separate power supply and associated wiring. In situations where PoE support is not available, the unit can also be powered directly from 24 VAC.

Market Opportunities

The H3D1F 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 H3D1F can be retrofitted on many existing DVR/NVR installations without requiring additional storage.

Features

- Outstanding image quality, 720p (1280 x 720) resolution
- 25 fps (30 fps NTSC) progressive scan
- True Day/Night, 3.3-12 mm VFAI lens with removable IR cut filter
- Wide angle and zoom lens options available
- Camera tamper detection
- Video motion detection
- Wall/pendant mount kit available
- NTP time synchronization support
- ONVIF support
- Dual digital video streams, independently configurable, H.264 and/or H.264/MJPEG
- Remote firmware update
- Supports both dynamic and static IP addresses
- Date/time stamp embedded into video stream
- Multiple browser support
- Single model for surface mount and recessed ceiling applications, 4S adapter plate also supplied
- 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
- Supports input and output alarm contacts
- Supports bidirectional audio



HD

H3D1F shown with mount skirt for surface mount



HD

H3D1F shown without mount skirt for flush mount



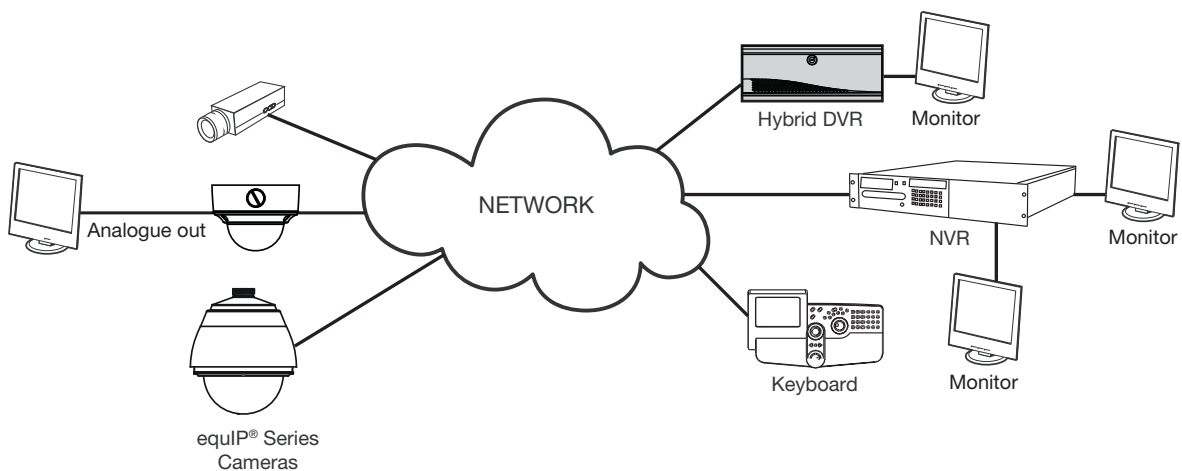
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SPECIFICATIONS

Like all cameras in the equiP Series of IP-based products, the H3D1F 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



H3D1F

SPECIFICATIONS

Operational			
Video Standard	PAL/NTSC		
Scanning System	Progressive scan		
Image Sensor	1/4" CMOS		
Number of Pixels (H x V)	1280 x 720		
Minimum Illumination	0.25 lux colour/0.22 lux BW @ 50 IRE, F1.6 0.11 lux colour/0.09 lux BW @ 30 IRE, F1.6		
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)		
Wide Dynamic Range	69dB		
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)		
Lens Type	True Day/Night (TDN) 3.3-12 mm Varifocal Auto Iris, f1.6 (H3D1F1X) 2.5-6 mm Varifocal Auto Iris, f1.2 (H3D1F2X) 10-28 mm Varifocal Auto Iris, f1.8 (H3D1F3X)		
Angle of View		Wide	Tele
3.3-12 mm VFAI lens	Horizontal	68.5°	19.14°
	Vertical	36.8°	10.8°
2.5-6 mm VFAI lens	Horizontal	87.9°	37.9°
	Vertical	48.6°	21.3°
10-28 mm VFAI lens	Horizontal	21.9°	8.1°
	Vertical	12.1°	4.6°
White Balance	AWC, AWC Push, Manual		
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	3.5 W (max) 24 V AC PoE: PD Type 1 Class 1		
Mechanical			
Dimensions (W x H)	125.1 mm x 124.2 mm		
Weight	0.45 kg camera only		
Construction	Housing: Polycarbonate Finish: Matt texture, off white		
Connector	Video Output: 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		
Resolution	Bitrate H.264 (Typical)*	Frame Rate	Storage/Day (GB)
1280 x 720	1.8 Mbps	25/30	18.98
800 x 450	1.2 Mbps	25/30	12.65
640 x 360	0.6 Mbps	25/30	6.33
320 x 180	0.21 Mbps	25/30	0.89
Frame Rate PAL/NTSC	Up to 25/30 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 Vista SP1, Windows 2008 R2 (64-bit) Internet Explorer 8 or 9 Mozilla Firefox® and Google Chrome		
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, NTP, RTCP, FTP, ICMP, DHCP, Bonjour, IGMP, SSH		
Standards	ONVIF support		
Regulatory			
Emissions	FCC part 15B, CE (EN55022)		
Immunity	CE (EN50130-4)		
Safety	EU 60950-1		

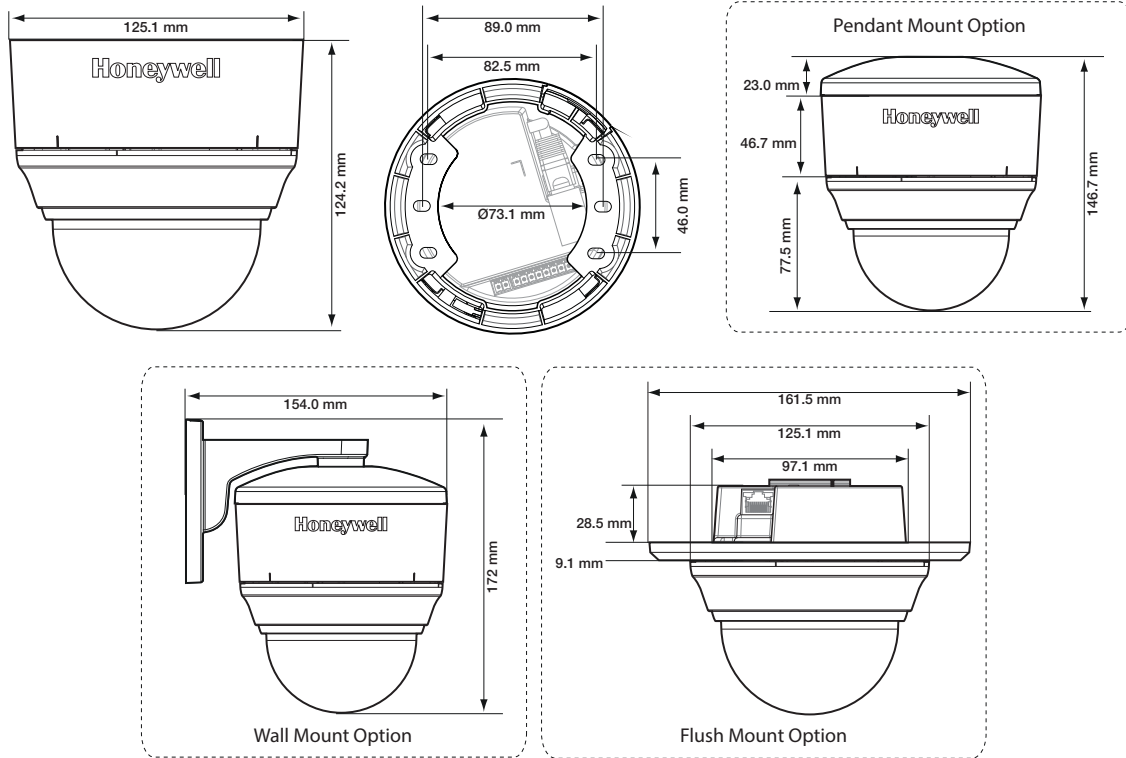
*Actual bitrate is scene and motion dependent with H.264 stream.

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SPECIFICATIONS

System Integration
Open IP Integration
<p>ONVIF support and open API for software integration. Refer to www.onvif.org for the ONVIF specification and the Honeywell Open Technology Alliance [http://www.honeywell.com/security/hota] to learn more about our open and integrated solutions.</p>

Accessories		
Housing and Mounts		
<table border="1"> <tr> <td>HD3-MK1</td> <td>Wall/Pendant Mount Kit, Off White</td> </tr> </table>	HD3-MK1	Wall/Pendant Mount Kit, Off White
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Ordering	
H3D1F1X	Network True Day/Night, Indoor Fixed Minidome Camera, 1/4" Progressive Scan, CMOS, 720p Resolution Camera, 3.3-12 mm VFAI, 24 VAC or PoE IEEE 802.3 af Class 1, H.264, PAL
H3D1F2X	Network True Day/Night, Indoor Fixed Minidome Camera, 1/4" Progressive Scan, CMOS, 720p Resolution Camera, 2.5-6 mm VFAI , 24 VAC or PoE IEEE 802.3 af Class 1, H.264, PAL
H3D1F3X	Network True Day/Night, Indoor Fixed Minidome Camera, 1/4" Progressive Scan, CMOS, 720p Resolution Camera, 10-28 mm VFAI , 24 VAC or PoE IEEE 802.3 af 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