H3D2F1X

equIP® SERIES 1080p MFZ LENS TRUE DAY/NIGHT H.264 INDOOR MINIDOME IP CAMERA

Honeywell's latest addition to the equIP® Series of IP-based products, the H3D2F1X is a high definition, True Day/Night indoor fixed minidome network camera engineered to provide extremely crisp images at minimal bandwidth. The H3D2F1X 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 H3D2F1X 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 360º of pan, 180º of tilt and 360º 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.

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 H3D2F1X supports dual video streams and multiple compression formats with 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 H3D2F1X features analogue video out for aiming and focusing during setup.

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 situations where PoE support is not available, the unit can also be powered directly from 24 VAC.

Market Opportunities

The H3D2F1X 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 H3D2F1X can be retrofitted on many existing NVR installations without requiring additional storage.

HD

H3D2F1X shown with mounting ring for surface mount

HD

H3D2F1X shown without mounting ring for flush mount

Features

- Outstanding image quality, 1080p (1920 × 1080) resolution
- 25 fps (30 fps NTSC) progressive scan
- True Day/Night, 3-9 mm MFZ lens with mechanical IR cut filter
- 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 power inputs
- Supports input and output alarm contacts
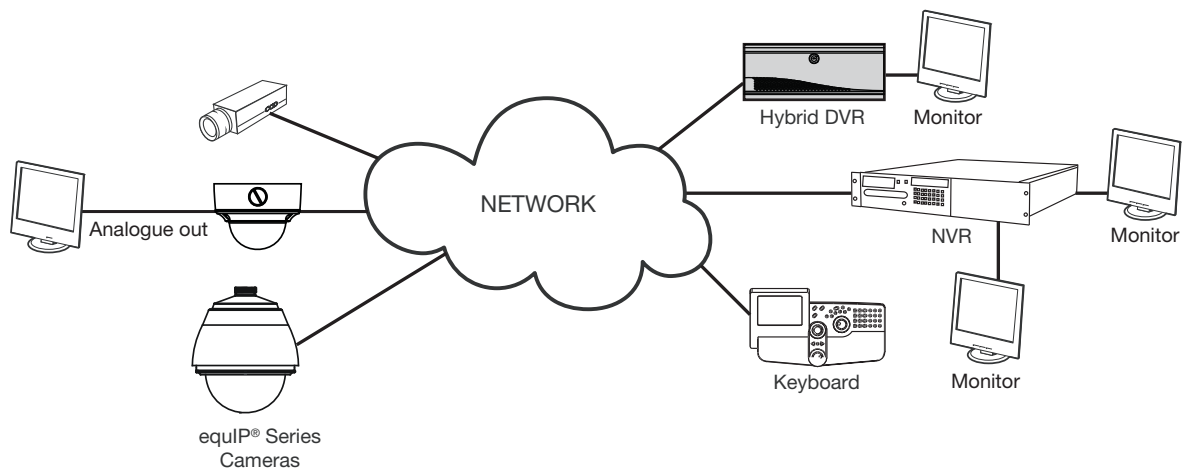- Supports bidirectional audio

H3D2F1X

SPECIFICATIONS

Like all cameras in the equIP Series of IP-based products, the H3D2F1X 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

H3D2F1X

SPECIFICATIONS

Operational

Video Standard	PAL/NTSC
Scanning System	Progressive scan
Image Sensor	1/2.7" CMOS
Number of Pixels (H x V)	1920 x 1080
Minimum Illumination	0.18 lux colour/0.15 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)
Wide Dynamic Range	69dB
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)
Lens Type	True Day/Night (TDN), 3 mm-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) 24V AC PoE: PD Type 1 Class 2

Mechanical

Dimensions (W x H)	125.1 mm x 124.2 mm
Weight	0.47 kg camera only
Construction	Housing: Polycarbonate and Diecast aluminium 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

Primary Stream Resolution	Bitrate H.264 (Typical)*	Frame Rate	Storage/Day (GB)
1920 x 1080	3.0 Mbps	25/30	31.6
1280 × 720	1.4 Mbps	25/30	14.8
800 × 450	0.75 Mbps	25/30	7.91
640 × 360	0.4 Mbps	25/30	4.22
320 × 180	0.2 Mbps	25/30	2.11

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, discovers cameras, supports firmware upgrades
Supported Protocols	HTTP, TCP, RTSP, RTP, UDP, ARP, DNS, NTP, RTCP, FTP, ICMP, DHCP, Bonjour, IGMP, SSH
Standards	ONVIF support

Regulatory

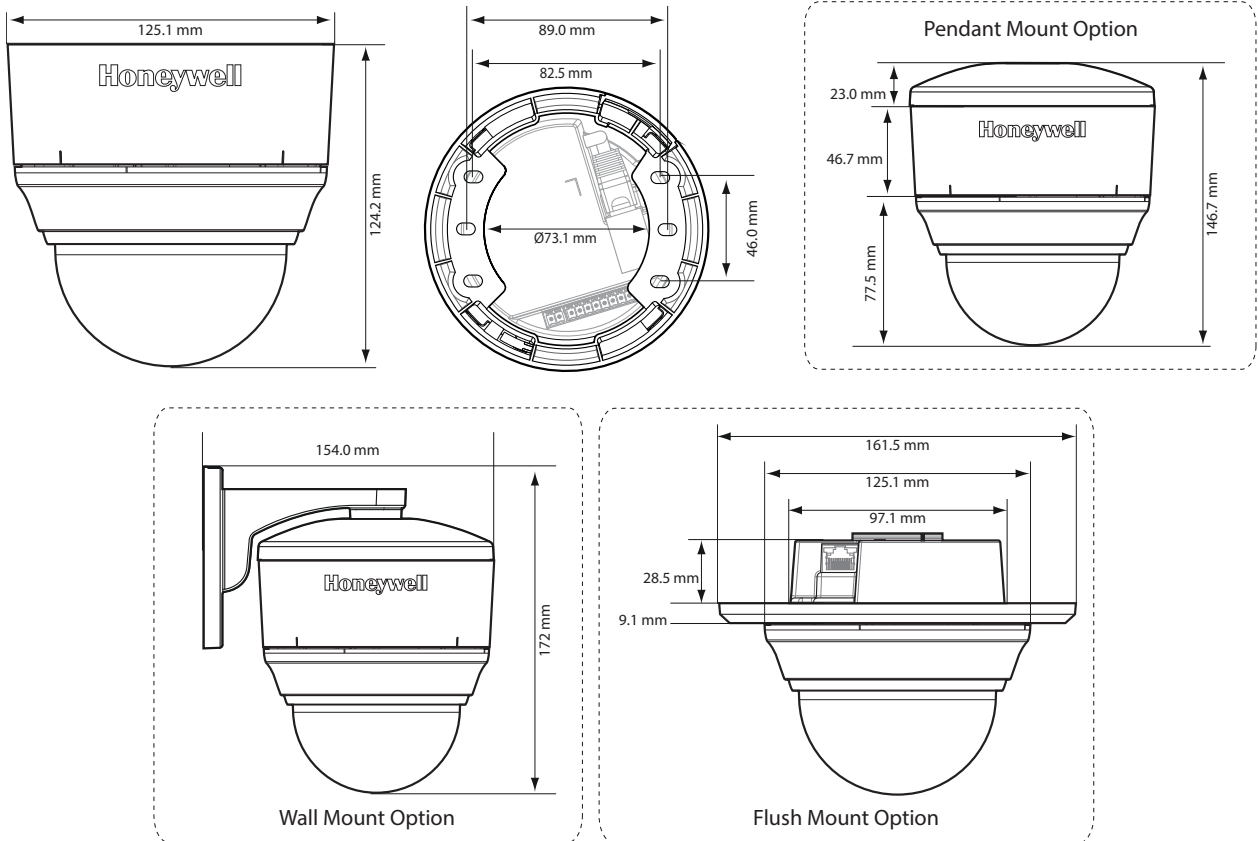|	
Emissions	FCC part 15B, CE (EN55022)
Immunity	CE (EN50130-4)
Safety	EU: EN60950-1

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

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SPECIFICATIONS

System Integration
Open IP Integration
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.

Accessories	
Housing and Mounts	
HD3-MK1	Wall/Pendant Mount Kit, Off White

125.1 mm
124.2 mm

89.0 mm
82.5 mm
Ø73.1 mm
46.0 mm

Pendant Mount Option
23.0 mm
46.7 mm
77.5 mm
146.7 mm

Wall Mount Option
154.0 mm
172 mm

Flush Mount Option
161.5 mm
125.1 mm
97.1 mm
28.5 mm
9.1 mm

Ordering	
H3D2F1X	Network True Day/Night Indoor Minidome Camera, 1/2.7" Progressive Scan, CMOS, 1080p Resolution Camera, 3-9 mm MFZ Lens, 24 VAC or PoE IEEE 802.3 af, 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

HVS-H3D2F1X-02-UK(0513)DS-E
May 2013
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