

## H4D2F

www.honeywellvideo.com

### equip® SERIES 1080p MFZ LENS TRUE DAY/NIGHT H.264 RUGGED INDOOR/OUTDOOR MINIDOME IP CAMERA

Honeywell's latest addition to the equip® Series of IP-based products, the H4D2F is a high definition, True Day/Night rugged indoor/outdoor fixed minidome network camera. This ultra compact and vandal-resistant camera provides extremely crisp images at minimal bandwidth. The H4D2F 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" progressive scan CMOS sensor offers the latest in digital video surveillance technology with accurate color rendition through a wide variety of lighting conditions. The H4D2F also supports the ONVIF specification for interoperability between network video products.

The H4D2F integrates a camera and lens in an ultra compact, single piece, tamper-proof 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 color 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 3D 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.

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 H4D2F supports dual video streams and multiple compression formats with frame rates up to 30 frames per second (25 fps for PAL 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 H4D2F features analog 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 does not exist, the unit can also be powered directly from 24 V AC.

#### Market Opportunities

The H4D2F is perfect for installations where excellent picture clarity at minimal bandwidth is required. At three times the resolution of standard analog cameras, yet with similar bandwidth requirements, the H4D2F 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 x 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
- NTP time synchronization support
- Wall and pendant mount kit available
- 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
- 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
- Supports input and output alarm contacts
- Supports bidirectional audio
- Rugged polycarbonate dome
- IP66



HD

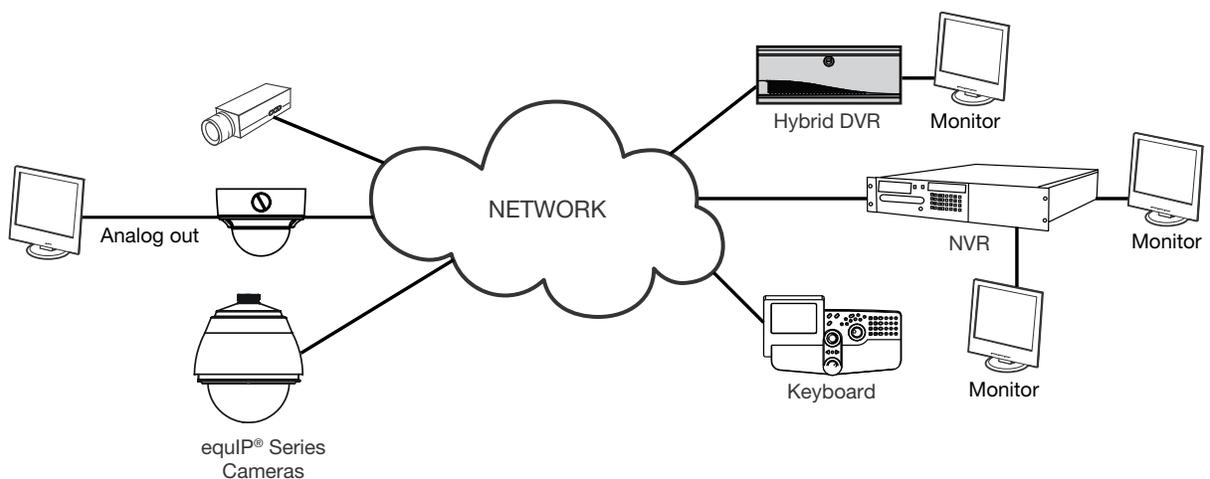


## SPECIFICATIONS

Like all cameras in the equip® Series of IP-based products, the H4D2F 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



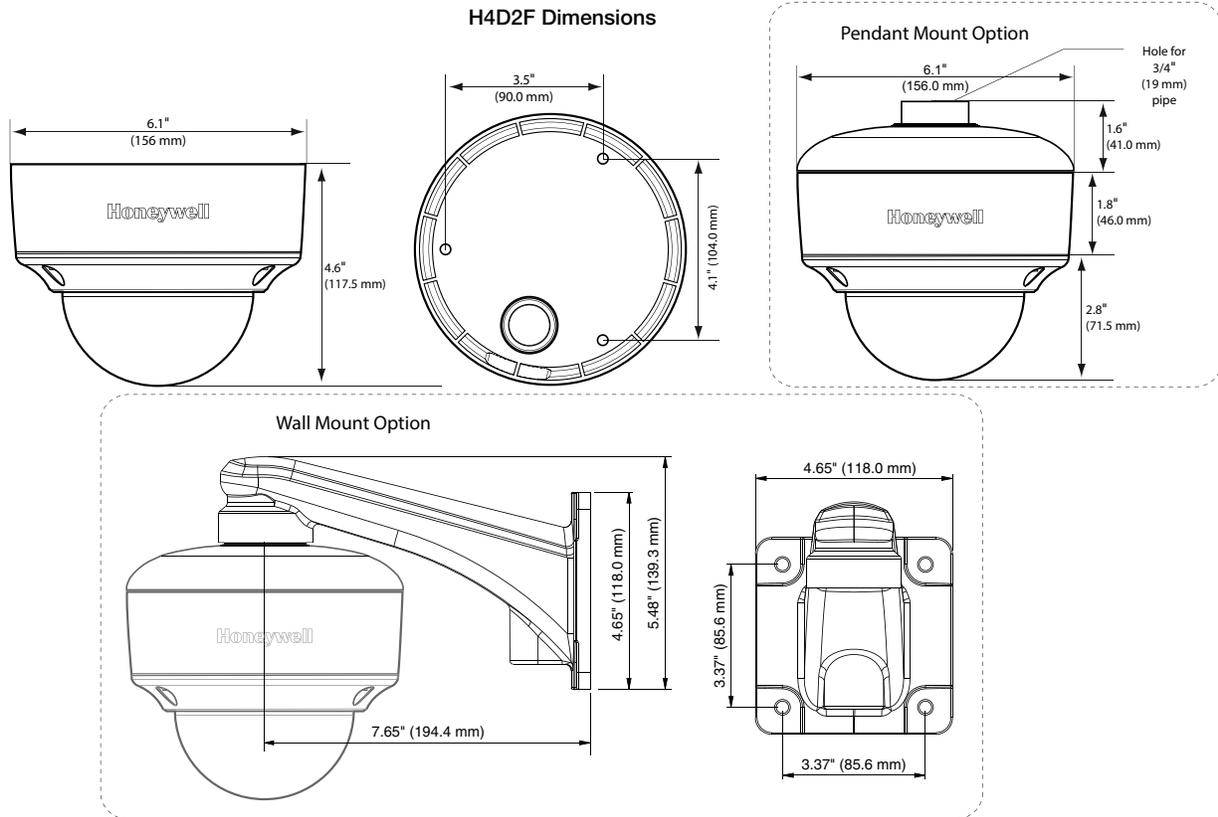
## SPECIFICATIONS

Operational			
Video Standard	NTSC/PAL		
Scanning System	Progressive scan		
Image Sensor	1/2.7" CMOS		
Number of Pixels (HxV)	1920 x 1080		
Minimum Illumination (AGC max)	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)		
Lens Type	True Day/Night (TDN), 3-9 mm Motorized Focus and Zoom, F1.2		
Angle of View		<b>Wide</b>	<b>Tele</b>
	<b>Horizontal</b>	117.3°	38.0°
	<b>Vertical</b>	63.0°	21.4°
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 W (max) 24 V AC PoE: PD Type 1 Class 2		
Mechanical			
Dimensions (W x H)	6.1" x 4.6" (156.0 mm x 117.5 mm)		
Weight	2.86 lb (1.3 kg) camera only		
Construction	Housing: Die cast Aluminum Finish: Cool Gray 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: -4°F to 122°F (-20°C to 50°C) Storage: -40°F to 158°F (-40°C to 70°C)		
Relative Humidity	0% to 85%, non-condensing		
Rating	IP66		
IP Specifications			
Video Compression	Dual stream H.264 and MJPEG		
Primary Stream Resolution	<b>Bitrate H.264 (Typical)*</b>	<b>Frame Rate</b>	<b>Storage/Day (GB)</b>
	1920 x 1080	30/25	31.6
	1280 x 720	30/25	14.8
	800 x 450	30/25	7.91
	640 x 360	30/25	4.22
320 x 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 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, 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 with H.264 stream.

## SPECIFICATIONS

System Integration		Accessories	
<b>Open IP Integration</b>		<b>Housing and Mounts</b>	
ONVIF support and open API software integration. Refer to <a href="http://www.onvif.org">www.onvif.org</a> for the ONVIF specification and the Honeywell Open Technology Alliance ( <a href="http://www.security.honeywell.com/hota">http://www.security.honeywell.com/hota</a> ) to learn more about our open and integrated solutions.		HD4CHIP-PK	Pendant Mount Bracket
		HD4CHIP-WK	Wall Mount Bracket



Ordering	
H4D2F1	Network TDN Rugged Minidome Camera, 1/2.7" Progressive Scan, CMOS, 1080p Resolution, 3-9 mm MFZ Lens, 24 V AC or PoE IEEE 802.3af, H.264, NTSC
H4D2F1X	Network TDN Rugged Minidome Camera, 1/2.7" Progressive Scan, CMOS, 1080p Resolution, 3-9 mm MFZ Lens, 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.

**For more information:**

[www.honeywell.com/security](http://www.honeywell.com/security)

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