

H4D1FR1

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equip® SERIES 720p VFAI LENS TRUE DAY/NIGHT H.264 RUGGED INDOOR/OUTDOOR IR MINIDOME IP CAMERA

Honeywell's latest edition to the equIP® Series of IP-based products, the H4D1FR1 is a high definition, true day/night, rugged indoor/outdoor IR minidome network camera. Providing extremely crisp images at minimal bandwidth, the H4D1FR1 camera offers 720p resolution at full frame rate, progressive scan technology, and 2D edge enhancement for outstanding picture clarity and definition. Digital Noise Reduction (DNR) provides significant storage savings without sacrificing image quality in low light and the ¼" progressive scan CMOS sensor ensures accurate color rendition through a wide variety of lighting conditions.

The H4D1FR1 supports dual video streams and multiple compression formats with 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 H4D1FR1 integrates a camera and lens in an ultra-compact, single-piece, tamper-proof unit for fast and easy installation in any application. There are both surface and flush mount options and wall and pendant mount kits are also available. 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 support does not exist, the unit can also be powered directly from 24 V AC.

A 3-axis gimbal capable of 360° of pan, 75° of tilt, and 360° of horizontal rotation simplifies mechanical camera adjustment and the varifocal auto iris lens allows the field of view to be adjusted to suit the scene requirements. Additionally, an analog video output is provided for aiming and focusing the camera during setup.

The H4D1FR1 supports the ONVIF specification for interoperability between network video products and comes with a powerful and intuitive web client for fine-tuning of the camera and the auto iris levels. This can also be performed from most DVR/NVR setup utilities.

Market Opportunities

The H4D1FR1 is perfect for installations that require excellent picture quality at minimal bandwidth. At three times the resolution of standard analog cameras, yet with similar bandwidth requirements, the H4D1FR1 can be retrofitted on many existing DVR/NVR installations without requiring additional storage. Its discreet, vandal-resistant rugged design provides optimum performance for both indoor and outdoor applications.

Features

- Outstanding image quality, 720p (1280 × 720) resolution
- 30 fps (25 fps PAL) progressive scan
- True Day/Night, VFAI lens with removable IR cut filter
- 3.3-12 mm VFAI lens
- 24 LEDs provide up to 50 ft (15 m) of illumination, depending on scene reflectance
- Motion and tamper detection
- NTP time synchronization support
- ONVIF (Profile S) 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 and 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
- Impact-resistant polycarbonate dome cover
- IP66 ingress protection rating
- · Wall and pendant mount kits available





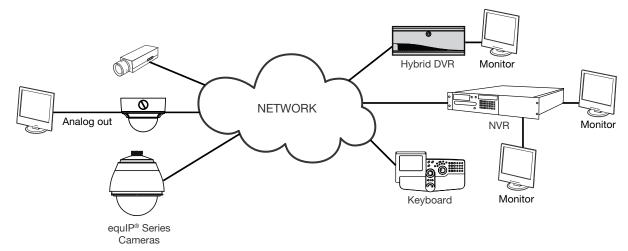
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SPECIFICATIONS

Like all cameras in the equIP® Series of IP-based products, the H4D1FR1 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 or DVR. The built-in web server provides password-protected access to the camera's video and network setup.



System Diagram





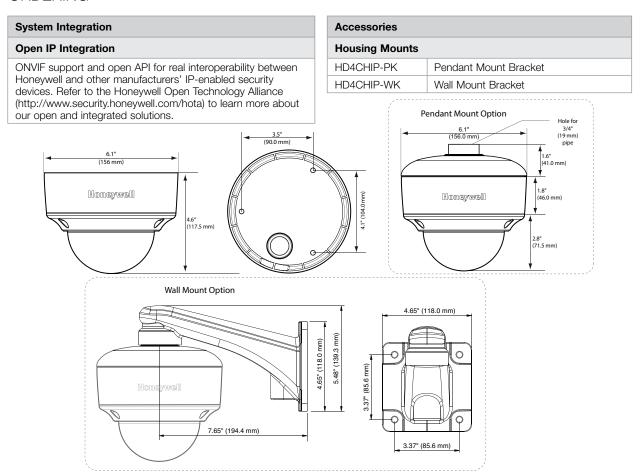
SPECIFICATIONS

Operational		Environmental				
Video Standard	NTSC/PAL	Temperature	Operating: -13°F to 131°F (-25°C to 55°C)			
Scanning System	Progressive scan	remperature	Storage: -40°F to 158°F (-40°C to 70°C)			
Image Sensor	1/4" CMOS	Rating	IP66			
Number of Pixels (H × V)	1280 x 720	IP Specifications Video	3			
Minimum Illumination (AGC max)	0.25 lux color/0.22 lux BW @ 50 IRE, F1.6 0.11 lux color/0.09 lux BW @ 30 IRE, F1.6 0 lux with IR LEDs on	Compression Primary Stream	Dual stream H.264 and MJPEG Bitrate H.264 Storage/ (Typical)* Frame Rate Day (GB)			
Automatic Lens Control	DC iris level 1-25	Resolution 1280 x 720 800 x 450 640 x 360 320 x 180	1.8 Mbps 30/2 1.2 Mbps 30/2 0.6 Mbps 30/2	30/25 30/25	Day (GB) 18.98 12.65 6.33	
Video Output (AUX)	1.0 Vp-p @ 75 ohms			30/25	0.89	
S/N Ratio	50 dB or more (AGC off)	Frame Rate (NTSC/PAL)	Up to 30/25 fps video in all resolutions			
Auto Gain Control	Off/On, selectable (10-40 dB)	Video Streaming	Dual streaming: H.264 and MJPEG Controllable frame rate and bandwidth			
Automatic Electronic Shutter	1/60-1/24,500 s (NTSC) 1/50-1/24,500 s (PAL)		Constant or variable bit rate Multiple user access levels with			
Lens Type	3.3-12 mm VFAI, DC drive, F1.6	Security	password protection			
IR LEDs	850 nm, 24 LEDs	Video Access	Full control of all camera settings available to administrator			
IR Illumination Distance	Up to 50 ft (15 m), depending on scene reflectance	from Web Browser				
White Balance	AWC, AWC Push, Manual		Pentium 4 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 2008 Server (32-/64-bit), Windows 2008 R2 (64-bit)			
Electrical		Minimum				
Input Voltage	24 V AC, PoE IEEE 802.3af	Web Browsing				
Input Range	17–28 V AC	Requirements				
Surge Suppression	1.5 kW transient	Internet Explorer 8 or				
Power Consumption	24 V AC: 6 W (max) PoE: PD Type 1 Class 2	Installation and				
Mechanical		Management Maintenance	address, checks status of device, upgrades firmware over HTTP			
Dimensions (W x H)	6.1" x 4.6" x (156 mm x 117.5 mm)	Supported Protocols	HTTP, TCP, RTSP, RTP, UDP, ARP, DNS, NTP, RTCP, FTP, ICMP, DHCP, Bonjour, IGMP, SSH			
Weight	3.0 lb (1.3 kg) camera only	Standards	ONVIF (Profile S)			
Construction	Housing: Die cast aluminum Finish: Cool gray powder coat Dome Cover: Polycarbonate Video Output (AUX): 2-pin Molex connector Power Input: Removable screw block Network: RJ45 connector	Regulatory				
		Emissions	FCC, EN 55022			
		Immunity	EN 50130-4			
Connector		Safety	EN 60950-1 North America ETL listed to UL/CSA 60950-1			

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

H4D1FR1

ORDERING



Ordering	
H4D1FR1	Network, Day/Night, Rugged Minidome, 1/4" Progressive Scan CMOS, 720p Resolution, 3.3–12 mm VFAI, 24 V AC or PoE IEEE 802.3af Class 1, H.264, NTSC
H4D1FR1X	Network, Day/Night, Rugged Minidome, 1/4" Progressive Scan CMOS, 720p Resolution, 3.3–12 mm VFAI, 24 V AC or PoE IEEE 802.3af Class 1, H.264, PAL

NOTE: 'ONVIF' and OnviF are trademarks of ONVIF Inc.

For more information:

www.honeywell.com/security

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