

## HD3MDIP

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### equiP® SERIES 720p VFAI LENS TRUE DAY/NIGHT FIXED INDOOR MINIDOME IP CAMERA

From Honeywell's equiP® Series of IP-based products, the HD3MDIP is a high definition, True Day/Night indoor fixed minidome camera engineered to provide extremely crisp images at minimal bandwidth. The HD3MDIP provides 720p 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 1/4" progressive scan CMOS sensor offers the latest in digital video surveillance technology with accurate color rendition through a wide variety of lighting conditions.

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 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 Varifocal Auto Iris lens allows the field of view to be adjusted to suit the scene requirements, and an onboard analog output allows 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 DVR/NVR setup utilities.

The HD3MDIP 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. A third analog stream can be utilized as a backup or for local viewing. It is also valuable when retrofitting onto an existing analog input DVR or encoder (full resolution not 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 situations where PoE support is not available, the unit can also be powered directly from 24 V AC.

#### Market Opportunities

HD3MDIP 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 HD3MDIP can be retrofitted on many existing DVR/NVR installations without requiring additional storage.

#### Features

- Outstanding image quality, 720p (1280 X 720) resolution
- 30 fps (25 fps PAL) progressive scan
- True Day/Night, 3.3-12 mm VFAI lens with removable IR cut filter
- Camera tamper detection
- Video motion detection
- Wall/pendant mount kit available
- Selectable compression formats
- Dual digital video streams simultaneously, independently configurable
- Remote firmware update
- Supports both dynamic and static IP address assignment
- 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 V AC or PoE IEEE 802.3af power inputs
- Supports input and output alarm contacts
- Supports bidirectional audio



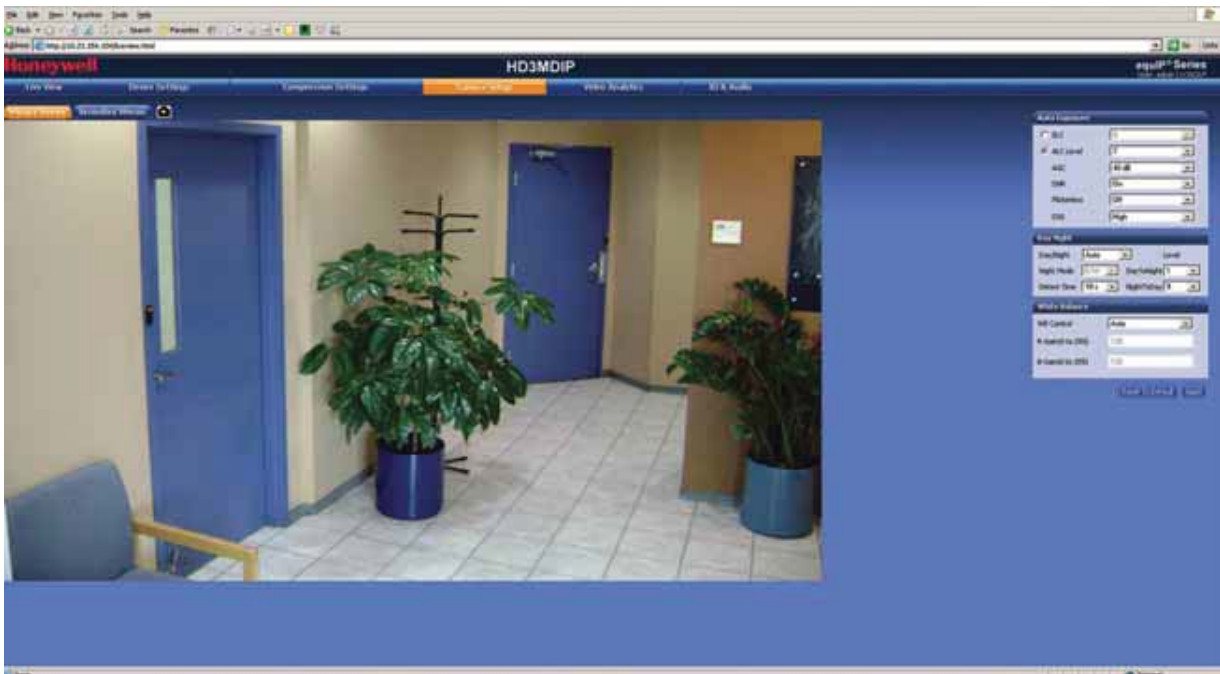
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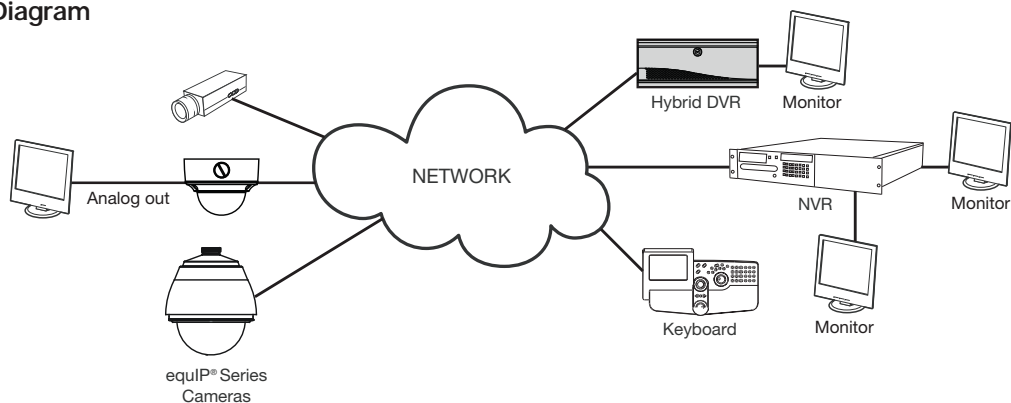
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### SPECIFICATIONS

Like all cameras in the equiP® Series of IP-based products, the HD3MDIP 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



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### SPECIFICATIONS

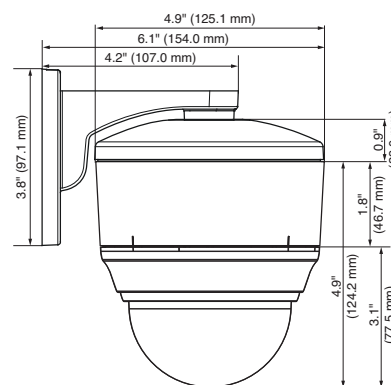
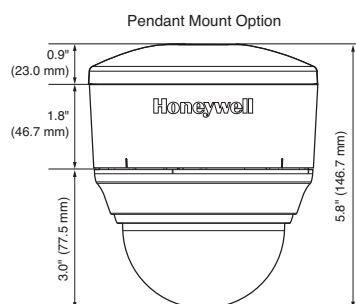
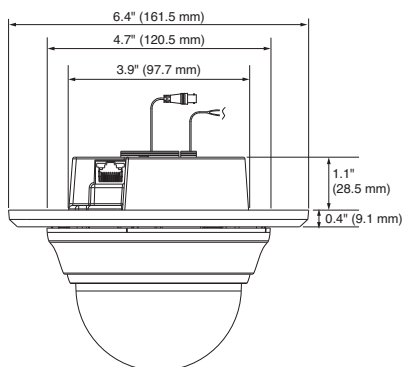
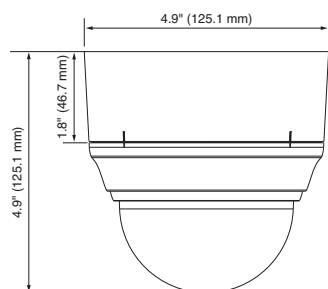
Operational		Environmental			
Video Standard	NTSC, PAL	Temperature	Operating: 14°F to 122°F (-10°C to 50°C) Storage: -40°F to 158°F (-40°C to 70°C)		
Scanning System	Progressive scan	Relative Humidity	0% to 85%, non-condensing		
Image Sensor	1/4" CMOS	IP Specifications			
Number of Pixels (H x V)	1280 x 720	Video Compression	Industry standard compression		
Minimum Illumination (DSS on)	0.25 lux color/0.22 lux BW @ 50 IRE, F1.6 0.11 lux color/0.09 lux BW @ 30 IRE, F1.6	Resolution	Bitrate (Typical)*	Frame Rate	Storage/Day (GB)
Automatic Lens Control	DC Iris Level 1-25	1280 x 720	3 Mbps	30/25	31.64
Video Output (AUX)	1.0 Vp-p @ 75 ohms	800 x 450	2 Mbps	30/25	21.09
S/N Ratio	50 dB or more (AGC off)	640 x 360	1 Mbps	30/25	10.55
Auto Gain Control	Off/On, selectable (10-40 dB)	320 x 180	0.35 Mbps	30/25	3.69
Automatic Electronic Shutter	1/60-1/24,500 (NTSC) 1/50-1/24,500 (PAL)	Frame Rate NTSC/PAL	Up to 30/25 fps in all resolutions		
Lens Type	True Day/Night (TDN), 3.3 mm-12.0 mm Varifocal Auto Iris, F1.6	Video Streaming	Dual streaming: MPEG-4 and MJPEG Controllable frame rate and bandwidth. Constant or variable bit rate (MPEG-4)		
White Balance	AWC, AWC Push, Manual	Security	Multiple user access levels with password protection		
Audio/Two-Way	Line in/out	Users	1 Administrator or 1 Guest		
Electrical		Video Access from Web Browser	Camera live view for 1 guest client. Full control of all camera settings available to administrator		
Input Voltage	24 V AC, PoE IEEE 802.3af	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 2008 Server (32-/64-bit), Windows 2008 R2 (64-bit) Internet Explorer 6, 7, 8, or 9		
Input Range	17-28 V AC	Supported Protocols	HTTP, TCP, RTSP, RTP, UDP, ARP, DNS, RTCP, FTP, ICMP, DHCP, Bonjour, IGMP, Telnet		
Surge Suppression	1.5 kW transient	Regulatory			
Power Consumption	3.5 W (max) 24 V AC PoE: PD Type 1, Class 1	Emissions	FCC, CE (EN55022)		
Mechanical		Immunity	CE (EN50130-4)		
Dimensions (W x H)	4.9" x 4.9" (125.1 mm x 125.1 mm)	Safety	EU: EN60950-1 North America ETL listed to UL/CSA 60950-1		
Weight	1.0 lb (0.45 kg) camera only				
Construction	Housing: Polycarbonate Finish: Matte texture, Off White				
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				

\*Actual bitrate is scene and motion dependant.

## SPECIFICATIONS

System Compatibility	
<b>Honeywell Products</b>	
<b>Hybrid DVRs</b>	
Fusion IV	Full Featured Hybrid Digital Video Recorder, v4.00.6405 or higher
Rapid Eye Hybrid HD and Rapid Eye Hybrid LT	Full Featured Hybrid Digital Video Recorder, v10.0 or higher
<b>NVRs</b>	
Enterprise NVR Series	Enterprise Class Digital Network Video Recorder System, version 5.75 build 19 or higher
MAXPRO VMS®/ IP Engine	v R200 SP1 or higher
Fusion IV	v4.00.6405 or higher

Third-Party Products	
Refer to the Honeywell Open Technology Alliance for a comprehensive list of compatible products to which this device is integrated [ <a href="http://www.security.honeywell.com/hota/">http://www.security.honeywell.com/hota/</a> ].	
Accessories	
Housing and Mounts	
HD3-MK1	Wall/Pendant Mount Kit, Off White



Ordering	
HD3MDIP	Network TDN Fixed Indoor Minidome Camera, 1/4" Progressive Scan, CMOS, 720p Resolution, 3.3-12 mm VFAI Lens, 24 V AC or PoE IEEE 802.3af, NTSC
HD3MDIPX	Network TDN Fixed Indoor Minidome Camera, 1/4" Progressive Scan, CMOS, 720p Resolution, 3.3-12 mm VFAI Lens, 24 V AC or PoE IEEE 802.3af, PAL

**NOTE:** Honeywell reserves the right, without notification, to make changes in product design or specifications.

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