

## HD4MDIH

### EQUIP® SERIES 720P TRUE DAY/NIGHT RUGGED INDOOR/OUTDOOR DOME NETWORK CAMERA

Honeywell's latest addition to the EQUIP® Series of IP-based products, the HD4MDIH is a high definition, True Day/Night rugged indoor/outdoor fixed mini-dome camera. This ultra compact and vandal-resistant camera provides extremely crisp images at minimal bandwidth. The HD4MDIH 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 HD4MDIH 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 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 and an integrated analogue 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. This can also be performed from most DVR/NVR set-up utilities.

The HD4MDIH supports dual video streams and multiple compression formats with rates up to 25 fps (PAL). The digital compression parameters for the two video streams are independently configurable. A third analogue stream can be utilised as a back-up or for local viewing and is also valuable when retrofitting onto an existing analogue input DVR or encoder (full resolution not available).

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 retrofit situations where PoE switching does not exist, the unit can also be powered directly from 24 VAC.

### Market Opportunities

The HD4MDIH 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 HD4MDIH can be retrofitted on many existing DVR/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

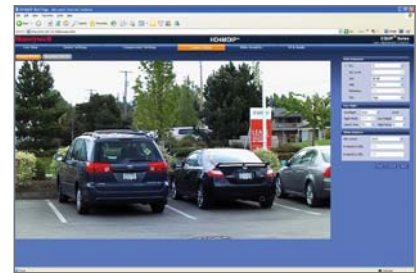
- Outstanding image quality, 720p (1280 X 720) resolution
- 25 fps progressive scan
- True Day/Night, 3.3-12 mm VFAL lens with removable IR cut filter
- Camera tamper detection
- Video motion detection
- Wall and pendant mount kit available
- Selectable compression formats
- Dual digital video streams simultaneously, independently configurable
- Remote firmware update
- Supports both dynamic and static IP address assignment
- Includes advanced IP locator software to make system set-up easy
- Web server for remote set-up 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
- Rugged polycarbonate dome
- PSIA Compliant



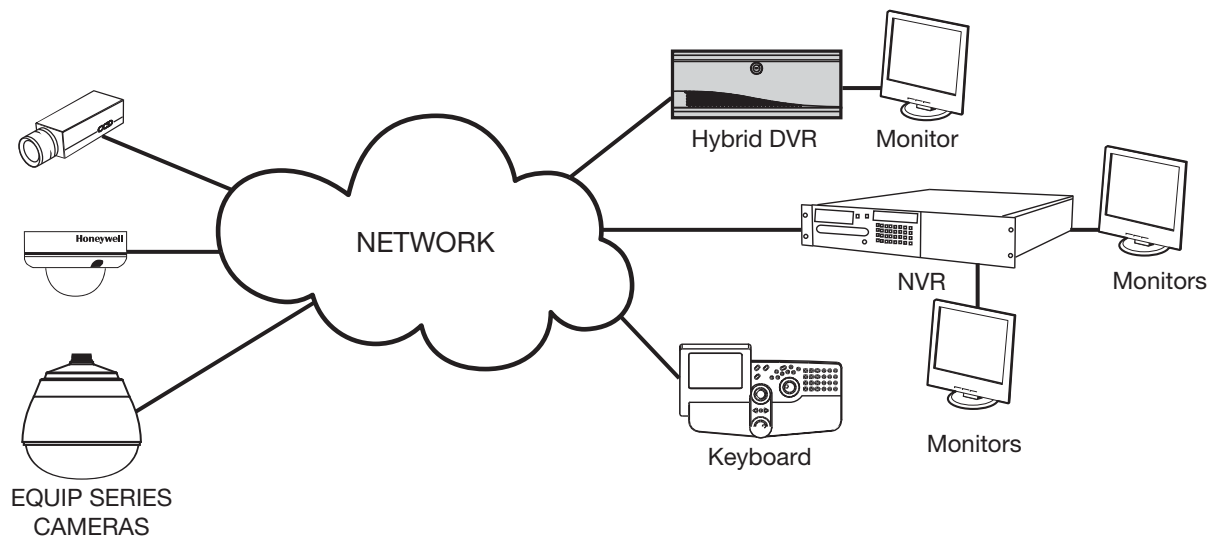
# HD4MDIH

## SPECIFICATIONS

Like all cameras in the EQUIP IP Series, the HD4MDIH 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 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, obstructed, 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. Set-up is quick and easy and can be customised 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 set-up.



### System Diagram



# HD4MDIH

## 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)
Auto Gain Control	Off/On, selectable (10-40 dB)
Automatic Electronic Shutter	1/60-1/100,000 sec (NTSC) 1/50-1/100,000 sec (PAL)
Lens Type	True Day/Night (TDN), 3.3-12.0 mm Vari-focal Auto Iris, F1.6
White Balance	AWC, AWC Push, Manual
Audio/Two-Way	Line in/out
Electrical	
Input Voltage	24 VAC, PoE IEEE 802.3af, Class 1
Input Range	17-28 VAC
Surge Suppression	1.5 kW transient
Power Consumption	3.5 W (max)
Mechanical	
Dimensions (W x H x D)	See Diagram
Weight	1.3 kg camera only
Construction	Housing: Die cast Aluminium Finish: Cool Grey Powder Coat Dome: Polycarbonate
Connector	Video Output (AUX): 2-pin Molex connector Power Input: Removable screw block Alarm I/O: Removable screw block Network: RJ45 connector Audio In: Removable screw block Audio Out: Removable screw block

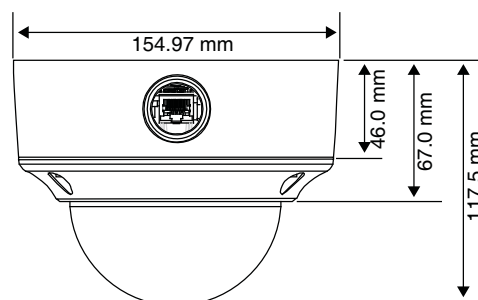
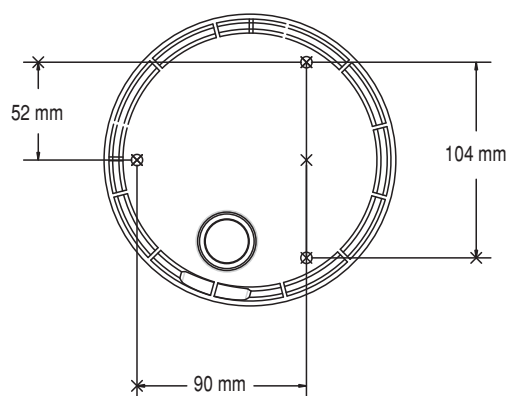
Environmental			
Temperature	Operating: -30°C to 60°C Storage: -20°C to 60°C		
Relative Humidity	0% to 85%, non-condensing		
IP Specifications			
Video Compression	Dual stream MPEG4 and H.264		
Resolutions 1280 x 720 800 x 450 640 x 360 320 x 180	Bit Rate (Typical)* 2.25 1.5 0.75 0.26	Frame Rate TBD TBD TBD TBD	Storage/Day (GB) TBD TBD TBD TBD
Frame Rate PAL	Up to 30 fps		
Video Streaming	Dual streaming Controllable frame rate and bandwidth Constant or variable bit rate		
Security	Multiple user access levels with password protection		
Users	1 Administrator or 1 Guest		
Video Access from Web Browser	Camera live view for 1 client. Full control of all camera settings available to administrator		
Minimum Web Browsing Requirements	Pentium IV CPU 3.1 GHz or equivalent AMD, 1 GB RAM, AGP graphics card (32 MB RAM) Windows® XP/2003, Internet Explorer 6.0 or later		
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, RTCP, FTP, ICMP, DHCP, Bonjour, IGMP, Telnet		
Standards			
Emissions	FCC, CE (EN55022)		
Immunity	CE (EN55024)		
Safety	EU: LVD 2006/95/EC, UL60950		
PSIA Compliant			

\* Actual bit rate is scene and motion dependent

# HD4MDIH

## SPECIFICATIONS

System Compatibility	
Honeywell Products	
Hybrid DVRs	
Fusion IV	Full Featured Hybrid Digital Video Recorder, v4.00.6405 or higher
NVRs	
DVM	R400 or higher
MAXPRO VMS/IP Engine	v R300 or higher
Fusion IV	v4.00.6412 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.	
Accessories	
Housing and Mounts	
HD4DIP-PK	Pendant Mount Bracket
HD4DIP-WK	Wall Mount Bracket



Ordering	
HD4MDIH	Network, True Day/Night Rugged Fixed Dome, 1/4" Progressive Scan, CMOS, 720p Resolution Camera, 3.3-12 mm VFAI, 24 VAC or PoE IEEE 802.3af, NTSC, H.264

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

### For additional information,

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

### Honeywell Security Group

Honeywell Middle East FZE  
Post Office Box 18530  
LOB Building 08, Office 199  
Jebel Ali  
Dubai  
United Arab Emirates  
Tel: 971-04-881-5506  
[www.honeywell.com](http://www.honeywell.com)

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