

## HD4D Series

[www.honeywellvideo.com](http://www.honeywellvideo.com)

### TRUE DAY/NIGHT MINI DOME CAMERA

The HD4D is a high-resolution True Day/Night camera that switches from color to black and white mode, depending upon available light. The HD4D uses a removable infrared (IR) cut filter in color mode and an optical low-pass filter (OLPF) in black and white mode, guaranteeing optimal image quality at any time of day.

The HD4D incorporates the latest DSP (Digital Signal Processing) and DNR (Digital Noise Reduction) technology to produce extremely sharp and clear images regardless of lighting levels. DNR removes noise artifacts, increasing the performance of motion detection and typically providing longer recording durations on digital and network video recorders. Producing 540 TV lines, the HD4D reproduces sharper images down to the smallest detail with outstanding accuracy.

The HD4D series consists of two models, HD4D3 (3.3 - 12mm Vari-focal auto iris lens) and HD4D9 (9 - 22mm Vari-focal auto iris lens), that cover a wide range of viewing angles. With solid die-cast aluminum and a scratch-resistant 3.5mm thick polycarbonate dome cover, this unit can withstand heavy external impacts and is IP66 rated for safe outdoor installations. The HD4D comes completely assembled for quick, easy installation. It is designed to mount directly to a ceiling, wall or to a 4S single or double electrical box using the supplied adapter plate. The unit also comes with a pan/tilt/rotation mechanism and a second video service cable for simple camera adjustments.

#### Market Opportunities

The HD4D is a surveillance solution designed for object recognition that is required in locations where low light and variable light conditions exist. Setup is quick and easy and can be customized with user-friendly on-screen displays and preset modes. The compact, one-piece design allows for fast, easy installation in commercial, government, school, professional and any other quality-sensitive, high-risk environments, such as prisons, airports, and train stations.

#### Features

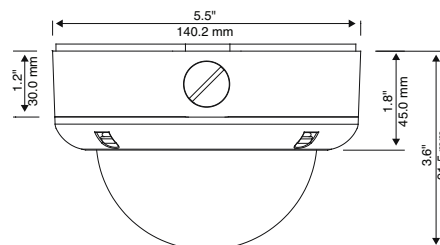
- Two models:
  - HD4D3: 3.3-12mm (F1.5) Vari-focal Auto Iris lens, IR Corrected
  - HD4D9: 9-22mm (F1.4) Vari-focal Auto Iris lens, IR Corrected
- High Resolution Color: 540 TVL - 1/3" Sony Super HAD CCD
- Digital Noise Reduction technology for noise free images
- On Screen Display menu for easy setup of camera
- Privacy Image Masking - 4 Programmable zones
- 3-Axis gimbal bracket
- Local video output for setup
- Dual 12 VDC/24 VAC voltage



## SPECIFICATIONS

Operational	
Video Standard	NTSC, PAL
Scanning System	525/60 lines (NTSC) 625/50 lines (PAL)
Image Sensor	1/3" Sony Interline CCD sensor
Number of Pixels (H x V)	768 x 494 (NTSC) 752 x 582 (PAL)
Minimum Illumination	HD4D3: 0.06 lux @ 50 IRE F1.5 – BW, Sens up (Auto) 0.45 lux @ 50 IRE F1.5 – Color Sens up off HD4D9: 0.04 lux @ 50 IRE F1.4 – BW, Sens up (Auto) 0.24 lux @ 50 IRE F1.4 – Color Sens up off
Horizontal Resolution	540 TVL
Video Output	1.0 Vp-p, composite @ 75 Ohms
Sync System	12 VDC: Internal 24 VAC: (Internal or Line Lock)
S/N Ratio	50 dB or more (AGC Off)
Auto Gain Control	On/Off, selectable
Automatic Electronic Shutter	1/60–1/120,000 second (NTSC) 1/50–1/120,000 second (PAL)
White Balance	ATW/AWC/Manual
Line Lock Phase Adjustment	On/Off
BLC	Low/Middle/High/Off
Gamma	0.45
DNR	High/Medium/Low
DSS	Off/Auto (selectable limit 2X~128X)
Privacy Function	On / Off (4 Programmable Zone)
Lens Type	HD4D3: 3.3 – 12mm Vari-focal Auto Iris, IR Corrected F1.5, DC Drive HD4D9: 9 – 22mm Vari-focal Auto Iris, IR Corrected F1.4, DC Drive
Angle of View	HD4D3: Tele: 29.8° (D), 24.0° (H), 18.0° (V) Wide: 104.2° (D), 80.2° (H), 58.6° (V) HD4D9: Tele: 16.1° (D), 12.8° (H), 9.6° (V) Wide: 40.2° (D), 31.2° (H), 22.8° (V)
Electrical	
Input Voltage	12 VDC/24 VAC
Input Range	11–16 VDC, 17–28 VAC
Surge Suppression	1.5 kW transient
Power Consumption	12 VDC: 4.8 W / 24 VAC: 3.8 W (max)

Mechanical			
Dimensions (W x H x D)	See Diagram		
Weight	2.5 lb (1.1 kg)		
Construction	Housing: Die cast aluminum Dome: Polycarbonate Finish: Light gray powder coating		
Cable Entry	One 3/4" (19.1mm) NPT threaded opening on side and one on base		
Connector	Main Video Output: BNC connector Aux Video Output: 2-pin connector for video test cable (supplied) Power Input: Tinned leads		
Environmental			
Temperature	Operating: -13° F to 131° F (-25° C to 55° C) Storage: -49° F to 167° F (-45° C to 75° C)		
Relative Humidity	0% to 95%, non-condensing		
Rating	IP66		
Regulatory			
Emissions	FCC: Part 15, Class B CE: EN 55013		
Immunity	CE: EN 50130-4		
Safety	UL2044, EU: 73/23/EEC LVD		
Accessories			
Transformers			
HPT2420	24 VAC, 20 VA Class 2 plug-in with thermal cut-out		
HPT2440	24 VAC, 40 VA Class 2 plug-in with thermal cut-out		
HPT12DC1000	12 VDC, 1000 mA plug-in regulated 2.1mm coaxial plug UL Listed/CSA Certified		
Power Supplies			
UL Listed	Fused	Smart Fused	Description
HPTV2404UL	HPTV2404	HPTV2404CB	4 A, 4 Output
HPTV2408UL	HPTV2408	HPTV2408CB	4 A, 8 Output
HPTV2408UL	HPTV2416	HPTV2416CB	8 A, 16 Output
Housing Mount			
HD4-WK	Wall Mount Kit		



Ordering	
HD4D3	1/3" Sony Super HAD CCD True Day/Night (TDN) Vandal Dome Camera with DNR, 540 TVL, 3.3 – 12mm VFAI, NTSC
HD4D3X	1/3" Sony Super HAD CCD True Day/Night (TDN) Vandal Dome Camera with DNR, 540 TVL, 3.3 – 12mm VFAI, PAL
HD4D9	1/3" Sony Super HAD CCD True Day/Night (TDN) Vandal Dome Camera with DNR, 540 TVL, 9 – 22mm VFAI, NTSC
HD4D9X	1/3" Sony Super HAD CCD True Day/Night (TDN) Vandal Dome Camera with DNR, 540 TVL, 9 – 22mm VFAI, PAL

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

### Honeywell Security & Data Collection

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L/HD4DD/D  
March 2009  
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