

HD4D Series

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HIGH RESOLUTION TRUE DAY/NIGHT RUGGED INDOOR/OUTDOOR FIXED MINIDOME CAMERA

The HD4D Series provides excellent color sensitivity and high resolution in low or variable light conditions. A True Day/Night camera that switches from color to black and white mode based on 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 to ensure optimal image quality at any time of day. A unique Digital Slow Shutter feature increases exposure time to illuminate typically dark environments. Digital Noise Reduction (DNR) technology removes electronic static and other noise artifacts, resulting in crisp, clean images and improved motion detection performance and compression on digital and network video recorders.

The HD4D Series offers four high resolution camera options suitable for a variety of outdoor environments: **HD4D3S** (3.3-12 mm VFAl lens), **HD4D5S** (5-50 mm VFAl lens), **HD4D9S** (9-22 mm VFAl lens), and **HD4DAFS** (2.9-8.5 mm motorized zoom and auto focus lens that reduces installation time and service calls). Generating 600 TV lines of resolution, the HD4D Series produces sharp, clear images down to the smallest detail with outstanding accuracy.

The HD4D's solid die cast aluminum housing and scratch-resistant 3.5 mm thick polycarbonate dome cover is built to withstand heavy external impacts and is IP66-rated for outdoor installations. The ultra-rugged housing is ideal for installations where structural integrity and vandal resistance are important. In addition, the housing incorporates a heater that allows the camera to work in temperatures as low as -40°F (-40°C) and a breather vent that prevents condensation from forming inside the housing.

Setup is simple and quick. The HD4D housing can instantly convert to flush or surface mount on a wall or ceiling, or it can be installed directly to a 4S electrical box. The HD4D can be customized onsite using the supplied second video service cable and the user-friendly on-screen display menus. The housing includes both composite and unshielded twisted pair (UTP) outputs. Optional wall and pendant mount kits are available.

Market Opportunities

The HD4D is a surveillance solution designed for object recognition in locations where low or 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, sea ports, and train stations.

Features

- High resolution color: 600 TVL - 1/3" Sony Super HAD™ CCD II
- Highlight Masking Exposure (HME) masks bright spots in a scene to provide better overall clarity
- Built-in breather vent prevents condensation
- Single model instantly converts to flush or surface mount
- Coax and UTP built in (standard)
- On-screen display menu for easy setup of camera
- Built-in heater for outdoor environments
- 3.3-12 mm, 9-22 mm, and 5-50 mm IR-corrected Varifocal Auto Iris lenses
- 2.9-8.5 mm IR-corrected Auto Focus Motorized Zoom lens
- Local video output for setup
- Dual 12 V DC/24 V AC voltage



Shown with mounting ring for surface mount



Shown without mounting ring for flush mount

Models

- **HD4D3S** 3.3-12 mm VFAl
- **HD4D5S** 5-50 mm VFAl
- **HD4D9S** 9-22 mm VFAl
- **HD4DAFS** 2.9-8.5 mm AF

HD4D Series

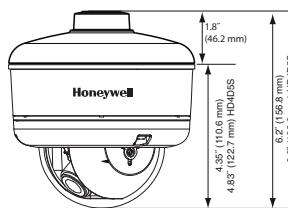
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SPECIFICATIONS

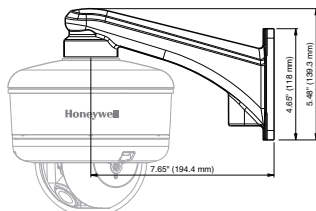
Operational	
Video Standard	NTSC
Scanning System	525/60 lines
Image Sensor	1/3" Sony Super HAD™ CCD II
Minimum Illumination @ 50 IRE	HD4D3S: 0.06 lux, BW, Sens up (auto) 0.45 lux, F1.5, Color, Sens up (off) HD4D5S: 0.06 lux, BW, Sens up (auto) 0.45 lux, F1.4, Color, Sens up (off) HD4D9S: 0.04 lux, BW, Sens up (auto) 0.24 lux, F1.6, Color, Sens up (off) HD4DAFS: 0.15 lux, BW, Sens up (auto) 0.60 lux, F1.9, Color, Sens up (off)
Horizontal Resolution	600 TVL
Video Output	Composite: 1.0 Vp-p, 75 ohms UTP: 1.0 Vp-p, 100 ohms
Sync System	12 V DC: Internal 24 V AC: Internal or line lock
S/N Ratio	50 dB or more (AGC off)
Auto Gain Control	On/Off, selectable
Automatic Electronic Shutter	1/60-1/100,000 s
White Balance	ATW/AWC/Manual
Line Lock Phase Adjustment	+/- 100° adjustable line lock vertical phase
Highlight Masking Exposure	On/Off (selectable limit 0-60)
Gamma	0.45 adjustable
3D-DNR	High/Medium/Low
Sens Up	Off/Auto (selectable limit 2X to 256X)
Privacy Function	On/Off (6 programmable zones)
Lens Type (IR Corrected)	HD4D3S: 3.3-12 mm VFAL, F1.5, DC drive HD4D5S: 5-50 mm VFAL, F1.4, DC drive HD4D9S: 9-22 mm VFAL, F1.6, DC drive HD4DAFS: 2.9-8.5 mm Auto Focus, F1.9, DC drive
Angle of View	HD4D3S: Tele: 29.8° (D), 24.0° (H), 18.0° (V) Wide: 104.2° (D), 80.2° (H), 58.6° (V) HD4D5S: Tele: 8.1° (D), 6.5° (H), 5.0° (V) Wide: 65.3° (D), 51.5° (H), 38.5° (V) HD4D9S: Tele: 16.1° (D), 12.8° (H), 9.6° (V) Wide: 40.2° (D), 31.2° (H), 22.8° (V) HD4DAFS: Tele: 41.4° (D), 33.3° (H), 25.0° (V) Wide: 119.1° (D), 94.7° (H), 70.3° (V)

Electrical	
Input Voltage	12 V DC/24 V AC
Input Range	11-16 V DC, 17-28 V AC
Surge Suppression	1.5 kW transient
Power Consumption	Max. 3.5 W (heater off), 13 W (heater on)
Mechanical	
Dimensions (W x H)	HD4D5S (not shown): 5.74" x 4.83" (145.9 mm x 122.7 mm) The other cameras: 5.74" x 4.35" (145.9 mm x 110.6 mm)
Weight	2.5 lb (1.1 kg)
Construction	Housing: Die cast aluminum Bubble: Polycarbonate Finish: Light gray powder coating
Cable Entry	Two 3/4" (19.1 mm) NPT threaded openings: one on the side and one on the back (mounting ring)
Connector	Main Video: BNC (coax), 2-pin Molex (UTP) Aux Video: 2-pin connector for video test cable Power Input: 2.1 mm power plug
Environmental	
Temperature	Operating: -40°F to 131°F (-40°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 55022
Immunity	CE: EN 50130-4
Safety	EU: EN 60065:2001 + A1:2006 + A11:2008 + A12:2011 NA: UL/CSA 60065
Accessories	
Transformers	
HPT2440	24 V AC, 40 VA, Class 2 plug-in with thermal cut-out
HPT12DC1000	12 V DC, 1000 mA plug-in regulated 2.1 mm coaxial plug UL Listed/CSA certified
Power Supply	
HPTV2404UL	24 V AC, 4 A, 4 Output, Fused, UL Listed
Housing Mounts	
HD4CHIP-WK	Wall mount kit
HD4CHIP-PK	Pendant mount kit

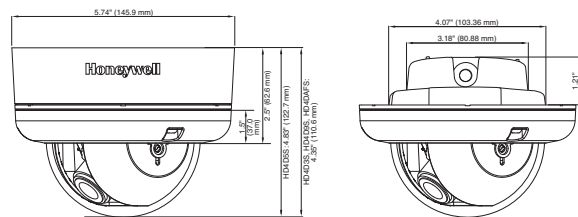
HD4CHIP-PK Pendant Mount



HD4CHIP-WK Wall Mount



HD4D Series Dimensions



Ordering	
HD4D3S	TDN Rugged Fixed Minidome Camera with DNR, 1/3" CCD, 600 TVL, 3.3-12 mm VFAL Lens, 12 V DC/24 V AC, NTSC
HD4D5S	TDN Rugged Fixed Minidome Camera with DNR, 1/3" CCD, 600 TVL, 5-50 mm VFAL Lens, 12 V DC/24 V AC, NTSC
HD4D9S	TDN Rugged Fixed Minidome Camera with DNR, 1/3" CCD, 600 TVL, 9-22 mm VFAL Lens, 12 V DC/24 V AC, NTSC
HD4DAFS	TDN Rugged Fixed Minidome Camera with DNR, 1/3" CCD, 600 TVL, 2.9-8.5 mm Auto Focus Lens, 12 V DC/24 V AC, NTSC

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

Automation and Control Solutions

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