

## HD4US

www.honeywellvideo.com

### ULTRA WIDE DYNAMIC TRUE DAY/NIGHT RUGGED DOME CAMERA

Honeywell's HD4US is the ideal camera for environments with high contrast and changing light conditions. Using the latest Digital Pixel System® (DPS) sensor technology, light photons are converted from analog to a digital format within each pixel immediately after the image is captured. Even in high contrast lighting conditions, the HD4US delivers higher quality images and significantly better dynamic range (>100 dB) than conventional CCD cameras. Designed for environments with difficult lighting, the HD4US camera offers a unique solution to capture the whole picture regardless of lighting condition or application. This results in images with the highest resolution, natural color and clarity, while automatically eliminating image-compromising visual noise such as glare or reflections.

The HD4US incorporates Digital Noise Reduction (DNR) technology to improve overall image clarity and compression efficiencies on DVRs. By removing noise artifacts, DNR technology increases motion detection performance by the DVR. DNR always captures a crisp clean image, enhancing the integrity of the recorded video. The HD4US 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.

Along with robust camera technology, the HD4US is designed for simple installation and for use in challenging environments. The ultra rugged IP66-rated die-cast dome housing is impact-resistant, making it 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.

#### Market Opportunities

The HD4US is a surveillance solution designed for object recognition that is required in locations where low light, high contrast and variable light conditions exist. The weather-tight housing is engineered for both indoor and outdoor installations and can instantly convert from flush to surface mount on a wall or ceiling or directly to a 4S electrical box. Setup is quick and easy and can be customized on-site using the provided second video service cable and user-friendly on-screen display. The housing also includes both composite and Unshielded Twisted Pair (UTP) outputs. The HD4US allows for fast, easy installation in commercial, government, school, professional and other quality-sensitive, high-risk environments, such as prisons, airports, sea ports and train stations.

#### Features

- 1/3" Ultra Wide Dynamic DPS imager: 690 HTVL
- Dynamic range: 102 dB typical/120 dB max – 100 to 200 times greater than conventional CCD cameras
- Built-in breather vent to prevent 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 IR corrected Vari-focal Auto Iris lens
- Local video output for setup
- Dual 12 VDC/24 VAC voltage



HD4US shown with mounting ring for surface mount



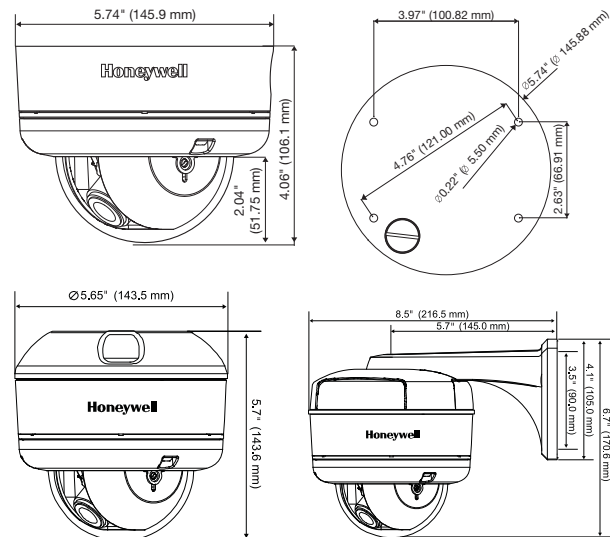
HD4US shown without mounting ring for flush mount

## SPECIFICATIONS

Operational	
Video Standard	NTSC
Scanning System	525/60 lines
Image Sensor	1/3" WDR digital image device
Minimum Illumination	0.4 lux, F1.5 (AGC on, 50 IRE) 0.0 lux, F1.5 (with external IR illumination)
Horizontal Resolution	690 HTVL
Video Output	Composite: 1.0 V p-p, 75 Ohms UTP: 1.0 V p-p, 100 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
White Balance	ATW/AWC/Manual
Line Lock Phase Adjustment	+/- 180° adjustable line lock vertical phase
Wide Dynamic	102 dB typical/120 dB max
Gamma	0.45
DNR	High/Medium/Low
Lens Type	3.3-12 mm Vari-focal Auto Iris, IR Corrected, DC Drive
Angle of View	Tele: 29.8° (D), 24.0° (H), 18.0° (V) Wide: 104.2° (D), 80.2° (H), 58.6° (V)
Electrical	
Input Voltage	12 VDC/24 VAC
Input Range	11-16 VDC, 17-28 VAC
Surge Suppression	1.5 kW transient
Power Consumption	Max. 3.5 W (heater off), 13 W (heater on)
Mechanical	
Dimensions	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" (19.1 mm) NPT threaded opening on side
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

Ordering	
HD4US	1/3" CCD Integrated Ultra Wide Dynamic True Day/Night Rugged Dome Camera with DNR, 690 HTVL, 3.3-12 mm VFAI, Heater, Surface/Flush Housing, 12 VDC/24 VAC

Environmental	
Temperature	Operating: -40°F to 122°F (-40°C to 50°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: 2001/95/EC GPSD NA: UL/CSA 60065
Accessories	
Transformers	
HPT2440	24 VAC, 40 VA Class 2 plug-in with thermal cut-out
Power Supplies	
HPTV2404UL	24 VAC, 4 Amps, 4 Output, Fused, UL Listed
Housing Mounts	
HD4CH-WK	Wall Mount Kit
HD4CH-PK	Pendant Mount Kit



## Automation and Control Solutions

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