

HD3U

ULTRA WIDE DYNAMIC DAY/NIGHT INDOOR COLOR DOME CAMERA

Honeywell's HD3U employs the only all-digital technology in the industry – the Digital Pixel System® (DPS) capture technology. With this technology thousands of self-adjusting pixels act like individual cameras, eliminating image-compromising visual noise and delivering the highest resolution, natural color and clarity, even in challenging lighting conditions. The HD3U delivers higher quality images, significantly better dynamic range (120 dB max), and higher frame rates than conventional CCD cameras.

The HD3U also comes with a one-button camera setup lever control to access the on-screen display menu. Seven wide dynamic presets allow quick and easy setup for various applications such as ATMs, loading docks, lobbies, and scenes with intense glare from spotlights or vehicle headlights.

This integrated camera system is loaded with high performance features, and is a snap to install. With solid polycarbonate housing and a thick clear polycarbonate dome cover and dome liner, this one-piece, compact surface mount design allows for fast, easy installation to a ceiling or wall. The 3-D axis gimbal allows versatile positioning and instant centering of the video image. A service/monitor cable is also included for easy on-site adjustments.

The HD3U accepts either 12 VDC or 24 VAC (auto sensing) for proper operation and flexible installation. The cameras come equipped with a 2.8-10.5 mm (F1.4) aspherical Vari-focal Auto Iris lens to cover a wide range of viewing angles. Picture adjustment after installation is easy with the 3-D axis gimbal that is capable of 360° of pan, 180° of tilt and 360° of horizontal rotation.

Market Opportunities

The HD3U Series day/night camera is designed for cost effective installations that require the highest image quality possible, where light conditions are less than optimal. This provides optimum performance for both indoor applications including banks, ATMs, lobbies, atriums, vestibules, foyers, warehouses and schools.

Features

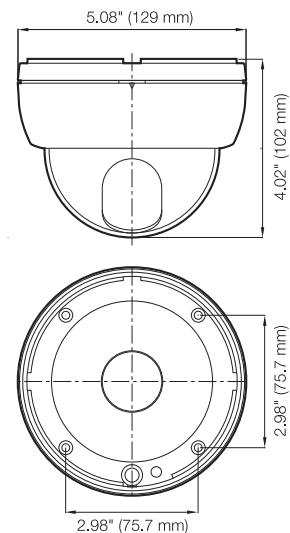
- 1/3" Ultra Wide Dynamic DPS imager – 540 TV lines of resolution
- 32-bit digital processing
- 7 Wide Dynamic presets for easy setup and camera configuration
- Dynamic range: 102 dB typical/120 dB max – 100 to 200 times greater than conventional CCD cameras
- Higher frame rates – 50/60 fps progressive video capture for sharp image definition in all lighting conditions
- 0.4 lux @ F1.2 for true color representation in daytime and black and white at night
- 12 VDC/24 VAC with line lock
- 3-D axis gimbal bracket
- Local video output for setup
- Polycarbonate housing and dome



SPECIFICATIONS

Operational	HD3U	HD3UX
Video Standard	NTSC	PAL
Scanning System	525/60 lines (Progressive)	625/50 lines (Progressive)
Image Sensor	1/3" WDR digital image device	
Number of Pixels (H x V)	720 x 540	720 x 540
Minimum Illumination	0.4 lux @ F1.2 (AGC on, 50 IRE)	
Horizontal Resolution	540 TVL	
Video Output	1.0 Vp-p, composite @ 75 Ohms	
Sync System	12 VDC: Internal, 24 VAC: Line lock	
S/N Ratio	52 dB typical (AGC Off)	
Auto Gain Control	On/Off, selectable	
ALC	Variable Iris Control for DC Drive Lenses	
Automatic Electronic Shutter	1/60-1/100,000 second (NTSC)	1/50-1/100,000 second (PAL)
White Balance	AWB/ATW/ATW Xtrnd/Manual	
Dynamic Range	102 dB typical/120 dB max	
Line Lock Phase Adjustment	Adjustable (available only with 24 VAC)	
BLC	On/Off, selectable	
Flickerless	On/Off, selectable	
Lens Type	2.8-10.5 mm, Vari-focal Auto Iris, F1.2	
Angle of View	Tele: 27.4° (H), 20.6° (V) Wide: 99.5° (H), 73.2° (V)	
Electrical		
Input Voltage	12 VDC/24 VAC	
Input Range	11-16 VDC, 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	0.8 lb (0.366 kg)	
Construction	Housing: Polycarbonate Dome: Polycarbonate Finish: Off-white, matte texture	
Connectors	Main Video: BNC connector Aux Video: 2-pin connector for video test cable (supplied) Power Input: screw terminal block	

Environmental	
Temperature	Operating: 14°F to 122°F (-10°C to 50°C) Storage: -4°F to 140°F (-20°C to 60°C)
Relative Humidity	0% to 90% non-condensing
Regulatory	
Emissions	FCC, CE (EN55022)
Immunity	CE (EN50130-4)
Accessories	
Transformers	
HPT2420	24 VAC, 20 VA Class 2 plug-in with thermal cut-out
HPT12DC500	12 VDC, 500 mA plug-in regulated 2.1 mm coaxial plug UL Listed/CSA Certified
Power Supplies	
HPTV2404UL	PSU, 4 Outputs, 24VAC, 4A, UL
HPTV2408UL	PSU, 8 Outputs, 24VAC, 4A, UL
HPTV2416UL	PSU, 16 Outputs, 24VAC, 8A, UL



Ordering	
HD3U	1/3" Ultra Wide Dynamic, Indoor Day/Night Dome Camera, Off-White Housing, 540 TVL, 2.8-10.5 mm VFAI, NTSC
HD3UX	1/3" Ultra Wide Dynamic, Indoor Day/Night Dome Camera, Off-White Housing, 540 TVL, 2.8-10.5 mm VFAI, PAL