

## HD4U

### ULTRA WIDE DYNAMIC TRUE DAY/NIGHT (TDN) COLOR RUGGED MINI-DOME CAMERA

Honeywell's HD4U is the ideal camera for environments with high contrast and changing light conditions. Using the 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 HD4U delivers higher quality images and significantly better dynamic range (>100 dB) than conventional CCD cameras.

The HD4U 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 HD4U 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 car headlights.

This rugged integrated camera system is loaded with high performance features and is a snap to install. With solid die-cast aluminum housing and a scratch-resistant 3.5 mm-thick clear polycarbonate dome cover and dome liner, this unit can withstand heavy external impacts and is IP66 rated for safe outdoor installations. The compact surface mount design allows for fast, easy installation to a ceiling or wall. A 4S adapter plate for mounting over an electrical box is supplied with the unit. A service/monitor cable is included for easy on-site adjustments, and a wall mount kit can be ordered, if needed.

#### Market Opportunities

The HD4U True Day/Night Series camera is designed for cost effective installations that require the highest image quality possible, where light conditions are less than optimal, including locations where high contrast and variable light conditions exist. This provides optimum performance for both indoor and outdoor applications including banks, lobbies, atriums, vestibules, gated entrances, foyers, loading docks, port security and parking garages.

#### Features

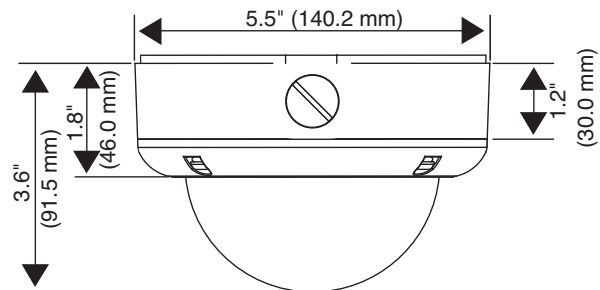
- 1/3" Ultra Wide Dynamic DPS imager
- 540 TV lines of resolution
- 32-bit digital processing
- 7 Wide Dynamic presets for easy setup and camera configuration
- Dynamic range: 102 dB typical/120 dB max – 100 to 200 times greater than conventional CCD cameras
- 12 VDC/24 VAC with line lock
- 3-D axis gimbal bracket
- Higher frame rates – 50/60 fps progressive video capture for sharp image definition in all lighting conditions
- 0.4 lux @ F1.4 for true color representation in daytime and black and white at night
- Local video output for setup
- Vandal resistant aluminum alloy housing with polycarbonate dome



## SPECIFICATIONS

Operational	
Video Standard	NTSC, PAL
Scanning System	525/60 lines (Progressive) (NTSC), 625/50 lines (Progressive) (PAL)
Image Sensor	1/3" WDR digital image device
Number of Pixels (H x V)	720 x 540 (NTSC) 720 x 540 (PAL)
Minimum Illumination	0.4 lux @ F1.4 (AGC on, 50 IRE) 0.0 lux @ F1.4 (with external IR illumination)
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 Xtnd/Manual
Dynamic Range	102 dB typical/120 dB max.
Line Lock Phase Adjustment	Adjustable (available only with 24 VAC)
BLC	Variable depending on WDR Preset
Flickerless	On/Off, selectable
Lens Type	2.8-10 mm, Vari-focal Auto Iris, F1.4
Angle of View	Tele: 35.8° (D), 28.7° (H), 21.6° (V) Wide: 123.3° (D), 97.1° (H), 71.8° (V)
Electrical	
Input Voltage	12 VDC/24 VAC
Input Range	11-16 VDC, 17-28 VAC
Surge Suppression	1.5 kW transient
Power Consumption	3.5 W (max)
Cable Entry	One 1" (19 mm) NPT threaded opening on side and one on base
Mechanical	
Dimensions (W x H x D)	See Diagram
Weight	2.5 lb (1.1 kg) max
Construction	Housing: Die cast aluminum Dome: Polycarbonate Finish: Off white powder coat
Connectors	Video Output: BNC connector Power Input: Screw terminal block
Cable Entry	One 1" (19 mm) NPT threaded opening on side and one on base

Environmental			
Temperature	Operating: -4°F to 122°F (-20°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)		
Safety	UL60065, EU: 2006/95/EC		
Accessories			
Mounts			
HD4-WK	Wall mount kit, Off white		
IR Illuminators			
SWIR-AC	Combined wide and narrow sweep, 24 VAC input		
SWIR-DC	Combined wide and narrow sweep, 12 VDC input		
SWIRW-AC	Wide sweep, 24 VAC input		
SWIRW-DC	Wide sweep, 12 VDC input		
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			
UL listed	Fused	Smart Fused	Description
HPTV2404UL	HPTV2404	HPTV2404CB	4 A, 4 Output
HPTV2408UL	HPTV2408	HPTV2408CB	4 A, 8 Output
HPTV2416UL	HPTV2416	HPTV2416CB	8 A, 16 Output



Ordering	
HD4U	1/3" Ultra Wide Dynamic, True Day/Night Dome Camera, Off White Housing, 540 TVL, 2.8-10 mm VFAI, NTSC
HD4UX	1/3" Ultra Wide Dynamic, True Day/Night Dome Camera, Off White Housing, 540 TVL, 2.8-10 mm VFAI, PAL

Digital Pixel System is a registered trademark of Pixim, Inc.

### Honeywell Security

Honeywell Video Systems  
2700 Blankenbaker Pkwy, Suite 150  
Louisville, KY 40299  
1.800.796.CCTV (2288)  
www.honeywell.com

L/HD4UD/D  
July 2008  
© 2008 Honeywell International Inc.

# Honeywell