

HDZ SERIES – SD IP PTZ DOMES

www.honeywellvideo.com

STANDARD DEFINITION TRUE DAY/NIGHT INDOOR/OUTDOOR NETWORK PTZ CAMERA

Honeywell's HDZ PTZ series are True Day/Night, standard definition wide dynamic network cameras. They provide extremely crisp video with up to 480,000 effective pixels and 36x zoom for continuous surveillance in outdoor applications and 30x zoom in indoor environments.

HDZ provides 550 TVL horizontal resolution at full frame rate, a 360° rotation and proportional zoom lens which combine to give you the flexibility to clearly view a target area with desired width and depth. The 1/4" CCD image sensor offers the latest in digital video surveillance technology with accurate color rendition through a wide variety of lighting conditions. Electronic image stabilization is also available for improved image quality in unstable mounting conditions.

The HDZ indoor PTZ supports Power over Ethernet Plus (25.5 W), simplifying installation and saving you time on site, allowing for more domes to be commissioned per day. The HDZ outdoor PTZ, with heater, requires 24 V AC or high power over Ethernet (PoE++, 60 W) to power the unit. For critical infrastructure requirements and in the event of a failure with the network, HDZ has the option to record captured video to a Micro SD (card not included), providing an additional level of security to the user. HDZ is also equipped with Wide Dynamic Range (WDR), which is ideal for environments with high contrast and changing light conditions.

The HDZ Series outdoor camera is housed by an IP66 rated tamper-resistant dome and integrated heater/blower to prevent the camera from damage by ingress of dust, heavy rain and extended operating temperatures.

HDZ supports quad video streams and adopts multiple compression formats (H.264/MJPEG) with rates up to 60 frames per second. The digital compression parameters for the four video streams are independently configurable.

Market Opportunities

The combination of the latest digital technology and advanced video processing makes HDZ ideally suited for large-scale surveillance in cities, roadways, airports, casinos, government facilities, schools and campuses, industrial environments and anywhere detailed surveillance is essential.

Features

- 36x (outdoor), 30x (indoor) optical zoom and 12x digital zoom
- On board camera storage – Micro SD card support
- 60 fps interlace scan
- Wide Dynamic Range
- ONVIF Profile S compatible
- Supports both dynamic and static IP addresses, DDNS, QoS, SNMP, and UPnP
- Wide range of mounting options available (1.5" NPT)
- High preset speed up to 400°/sec
- Supports Electronic Image Stabilizer (EIS)
- 550 TVL horizontal resolution
- Selectable compression formats
- 24 V AC or PoE power inputs
 - Indoor: 24 V AC or PoE+ (21 W) power inputs
 - Outdoor: 24 V AC or PoE++ (60 W) power inputs
- IK10 impact/vandal resistant acrylic – both indoor and outdoor
- In-ceiling housing option compatible with ACUIX and HD6 lower dome and cut out

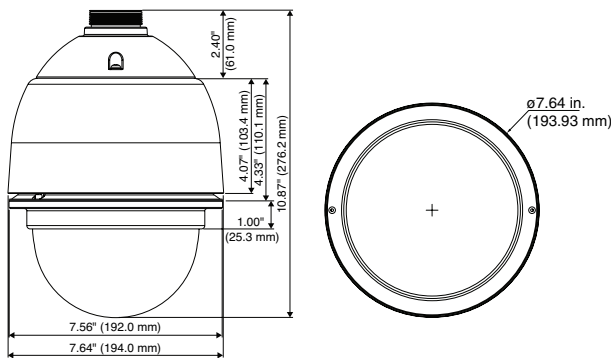
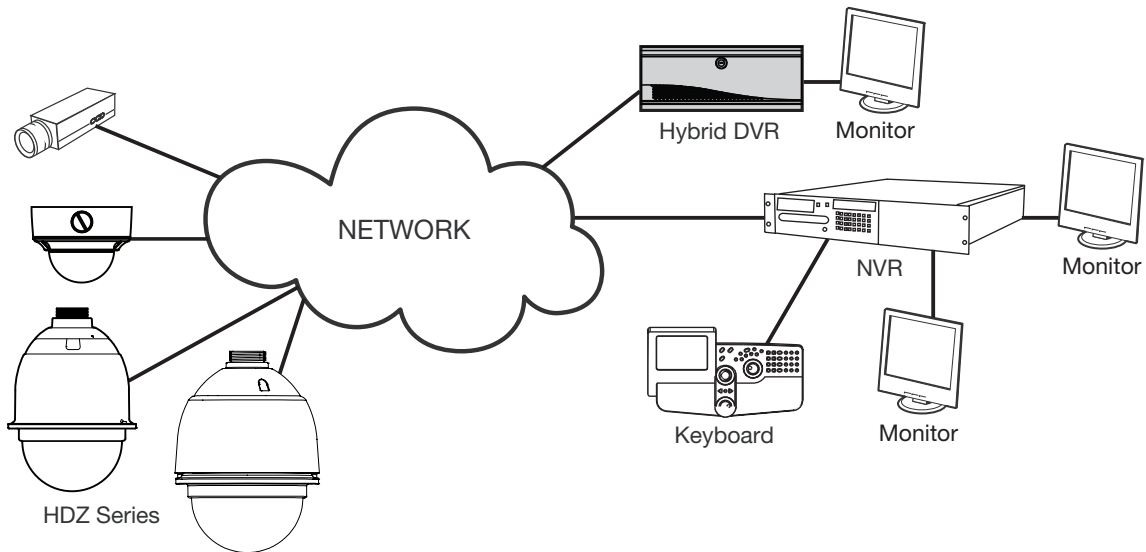


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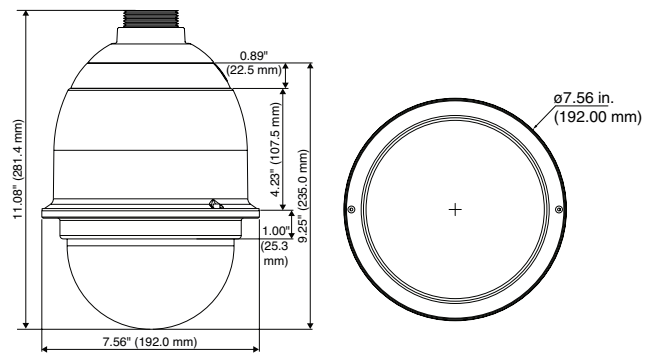
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SYSTEM DIAGRAM AND DIMENSIONS

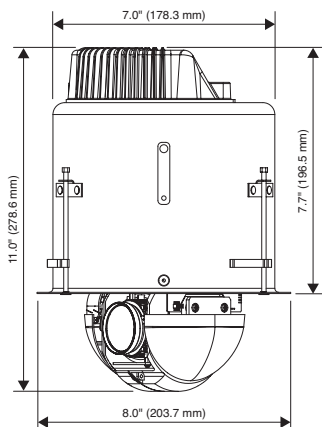
System Diagram



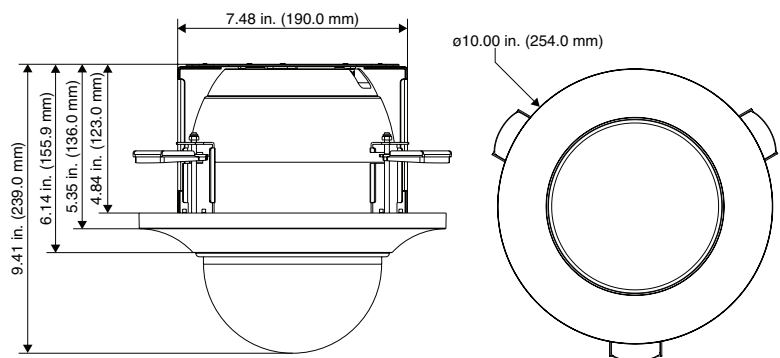
Outdoor Pendant



Indoor Pendant



Using In-Ceiling Back Can Housing (HDZHINKIT)



Using In-Ceiling Bracket (HDZINBKT)

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SPECIFICATIONS

Camera	
Scanning System	NTSC
Image Sensor	1/4" Sony CCD
Optical Zoom	Indoor: 30x, Outdoor: 36x
Digital Zoom	12x
Effective Pixels	480,000 (NTSC)
Horizontal Resolution	550 TVL
S/N Ratio	> 50 dB (AGC Off)
Minimum Illumination	0.08 lux (color)/0.005 lux (B/W) @ F1.6, 30 IRE. Max Aperture Ratio: F1.6 (Wide), F4.5 (Tele)
Wide Dynamic Range	On/Off selectable
Focal Length	Indoor: 3.4 to 102 mm Outdoor: 3.4 to 122.4 mm
Focus Mode	Manual or Auto (Auto is selectable to trigger on Zoom, PTZ, or continuous)
White Balance	Auto/Indoor/Outdoor/ATW/Manual
Iris Control	Auto/Manual
Electronic Shutter	1/1 to 1/10k sec.
AGC Control	Auto/Manual
Backlight Compensation	On/Off
Operational	
Multi-Language GUI	English, French, German, Italian, Russian, Spanish, Portuguese, Dutch, Czech, Polish, Traditional Chinese, Simple Chinese, and Japanese
Pan Travel	360° endless
Tilt Travel	-10° to 190°
Manual Pan Speed	0.5° to 200°/s
Manual Tilt Speed	0.5° to 84°/s
Presets	256
Preset Accuracy	0.225°
Maximum Preset Speed	Up to 400°/s
Preset Tours	8
Auto Pan	4
Mimic Tours	8
Privacy Masks	16
Proportional Pan and Tilt	On/Off (Pan and tilt speed proportional to zoom ratio)
Auto Resume After Power Failure	Yes
Home Function	Preset, Preset tour, Auto pan, Mimic tour
Auto Flip*	Mechanical/Digital/Off
Digital Slow Shutter	On/Off selectable
Motion Detection	On/Off selectable
Day/Night: IR Cut Filter	On/Off selectable
Image Freeze	On/Off selectable
Image Rotation Flip/Mirror/Inverse/Portrait	On/Off selectable
Noise Reduction	2D/3D On/Off selectable
Electronic Image Stabilizer	On/Off selectable

	HDZ Indoor	HDZ Outdoor
Electrical		
Power Source	24 V AC ± 10% and PoE+ (21 W)	24 V AC ± 10% and PoE++ (57 W)
Power Consumption	20 W	57 W (with heater)
Mechanical		
Dimensions	ø7.6" x 11.1" ø192.0 x 281.4 mm	ø7.6" x 10.9" ø194.0 x 276.2 mm (with sunshield)
Weight	4.85 lb (2.2 kg), with in-ceiling bracket: 6.83 lb (3.1 kg)	5.73 lb (2.6 kg), with sunshield
Environmental		
Operating Temperature	32°F to 104°F (0°C to 40°C)	-49°F to 122°F (-45°C to 50°C)**
Relative Humidity	0% to 90%, non-condensing	
Waterproof Standard	IP66 standard (HDZ Outdoor)	
Impact Rating	IK10 (HDZ Outdoor)	
IP Specifications		
Video Compression	H.264 (High Profile, Main Profile, Baseline Profile)/MJPEG	
Video Streaming	Quad streaming	
Video Resolution	D1: 720x480 (NTSC) CIF: 352x240 (NTSC)	
Frame Rate	Up to 60/50 fps @ D1 resolution	
Audio Compression	G.711/G.726 ADPCM/AAC	
Audio Stream	Full-duplex, Simplex	
Interface	RJ-45, 10/100 Mbps Ethernet	
Supported Protocols***	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, IEEE 802.1x, DNS, DDNS, QoS, ONVIF	
Simultaneous Users	5 at D1 (NTSC: 720x480)	
Security	User account and password protection HTTPS, IP Filter, IEEE 802.1x	
Alarm	Inputs	x 4
	Outputs	x 2
Alarm Reaction	Preset, Preset tour, Auto pan, Mimic tour	
Event Notification	HTTP, FTP, SMTP	
Micro SD	Support for micro SD up to 64 GB (only applied on SanDisk SDXC 64 GB) card not included	
Micro SD Function	Event trigger recording Continuous and scheduled recording Automatic recording when network fails	
Supported Web Browsers	Internet Explorer (8.0+)	
Supported OS	Windows 7 32-bit/64-bit	
Communication	ONVIF Profile S Support	
Regulatory		
Emissions	EN55022, FCC Part 15B	
Immunity	EN50130-4	
Safety	UL/CSA 60950-1, UL/CSA 60950-22 (outdoor models)	

Notes: * May be some image loss during digital image flipping point.

** Protecting the dome from direct sunlight in high temperature environments is advised.

*** Some development may be required in specific user cases to support some of these protocols in the field as they mature over time.

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SPECIFICATIONS

Accessories			
HDXWM2	Indoor and Outdoor Wall Mount	HDXCMA1	Corner Mount Adapter for HDXWM2
HDPRM2	Parapet and Roof Mount	HDZVRSMKAC	Smoked Polycarbonate Vandal Proof Acrylic for HDZ Series
HDXPMA2	Pole Mount Adapter for HDXWM2	HDZIK10AC	Clear IK10 Vandal Proof Acrylic for HDZ Series (default)
HDCM1	Ceiling Mount for Indoor Pendant (not for outdoor use)	HDZINBKT	In-Ceiling Mounting Bracket for HDZ Series
HDZHINKIT	Back Can Housing Kit to convert Indoor Pendant HDZ to In-Ceiling (includes Back Can and Snap Mount)	517082-7130	In-Ceiling PTZ Support Plate (for use with In-Ceiling Mount)
HDB00D0CW	Clear Dome with White Trim Ring, required for Indoor In-Ceiling Back Can	HDB00D0SB	Smoke Dome with Black Trim Ring, required for Indoor In-Ceiling Back Can
HDB00D0SW	Smoke Dome with White Trim Ring, required for Indoor In-Ceiling Back Can	HDB00D0GW	Half Gold Tint Dome with White Trim Ring, required for Indoor In-Ceiling Back Can
HDB00D0CB	Clear Dome with Black Trim Ring, required for Indoor In-Ceiling Back Can	HDB00D0GB	Half Gold Tint Dome with Black Trim Ring, required for Indoor In-Ceiling Back Can

System Compatibility

(Note: For latest system compatibility information, visit www.security.honeywell.com/hota/)

Open IP Integration

ONVIF support for interoperability between Honeywell and other manufacturer's IP-enabled security devices.

Honeywell Device Integration


Recorders

Fusion NVR/DVR	8, 16 and 32 Channel Network/Digital Video Recorders (Version 4.50.10806 and greater)
MAXPRO® NVR and Hybrid	Entry to Enterprise Level Network and Hybrid Video Recorders (Version 3.1[65] and greater)
Enterprise	Enterprise Class Digital Network Video Recorder System, supported in future release

Ordering

HDZ30	Network Wide Dynamic TDN Indoor Pendant Standard Definition PTZ Dome, 1/4" CCD, 550 TVL, 3.4 to 102 mm Lens, 30x Zoom, H.264, NTSC
HDZ36E	Network Wide Dynamic TDN Outdoor Pendant Standard Definition PTZ Dome, 1/4" CCD, 550 TVL, 3.4 to 122.4 mm Lens, 36x Zoom, H.264, NTSC
HDZ30IN*	Network Wide Dynamic TDN Indoor In-Ceiling Back Can Standard Definition PTZ Dome, 1/4" CCD, 550 TVL, 3.4 to 102 mm Lens, 30x Zoom, NTSC

* Note: Lower dome not included; must be ordered separately.

Note: 'ONVIF' and  are trademarks of ONVIF Inc.



For more information:

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Automation and Control Solutions

Honeywell Security Products Americas
2700 Blankenbaker Pkwy, Suite 150
Louisville, KY 40299
1.800.323.4576
www.honeywell.com



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