HDZ SERIES – 1080p HD IP PTZ DOMES

Honeywell's latest addition to the HDZ Series of IP-based products, the high definition, True Day/Night HDZ PTZ cameras provide extremely crisp video with up to 2 million effective pixels and either 22x or 30x optical zoom models for continuous surveillance in both outdoor and indoor applications.

HDZ provides 1080p (1920x1080) resolution at full frame rate, a 360° continuous rotation function and a zoom lens which combine to give you the flexibility to clearly view a target area with desired width and depth. The 1/2.8" progressive scan CMOS sensor offers the latest in digital video surveillance technology with accurate color rendition through a wide variety of lighting conditions. HDZ also supports the ONVIF Profile S specification for interoperability between network video products.

Installing either the indoor or outdoor model is fast and simple. HDZ supports Power over Ethernet (PoE+/PoE++) or 24 V AC to power the unit. In the event of a network failure, 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 True Wide Dynamic Range (True WDR), which is ideal for environments with high contrast and changing light conditions.

The HDZ Series outdoor cameras include an integrated heater/blower and are housed in an IK10 Impact Resistant/IP66 rated tamper-resistant dome to prevent camera damage from impacts, ingress of dust, heavy rain and extended operating temperatures.

HD

ONVIF

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 AND BENEFITS

- 22x and 30x optical zoom models
- On board camera storage— micro SD card support
- Up to 30 fps at 1080p Up to 60 fps at 720p – 1/2.8" progressive scan image sensor
- True Wide Dynamic Range

- ONVIF Profile S compatible
- Supports both dynamic and static IP addresses
- Electronic image stabilizer (EIS)
- Digital compression parameters for the four video streams are independently configurable

- P-Iris mode
- Wide range of mounting options available (1.5" NPT)
- High preset speed up to 400°/sec
- Multiple, selectable compression formats (H.264/MJPEG)

- Choice of 24 V AC or PoE power inputs – Indoor: 24 V AC or PoE+ (25.5 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

HDZ SERIES – 1080p HD IP PTZ DOMES
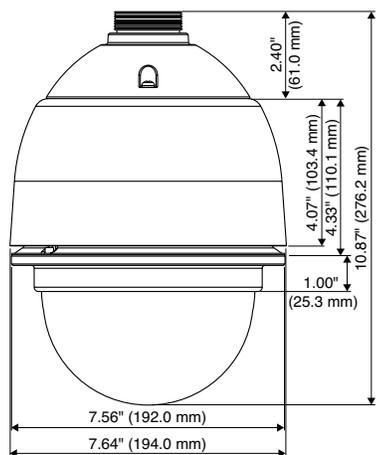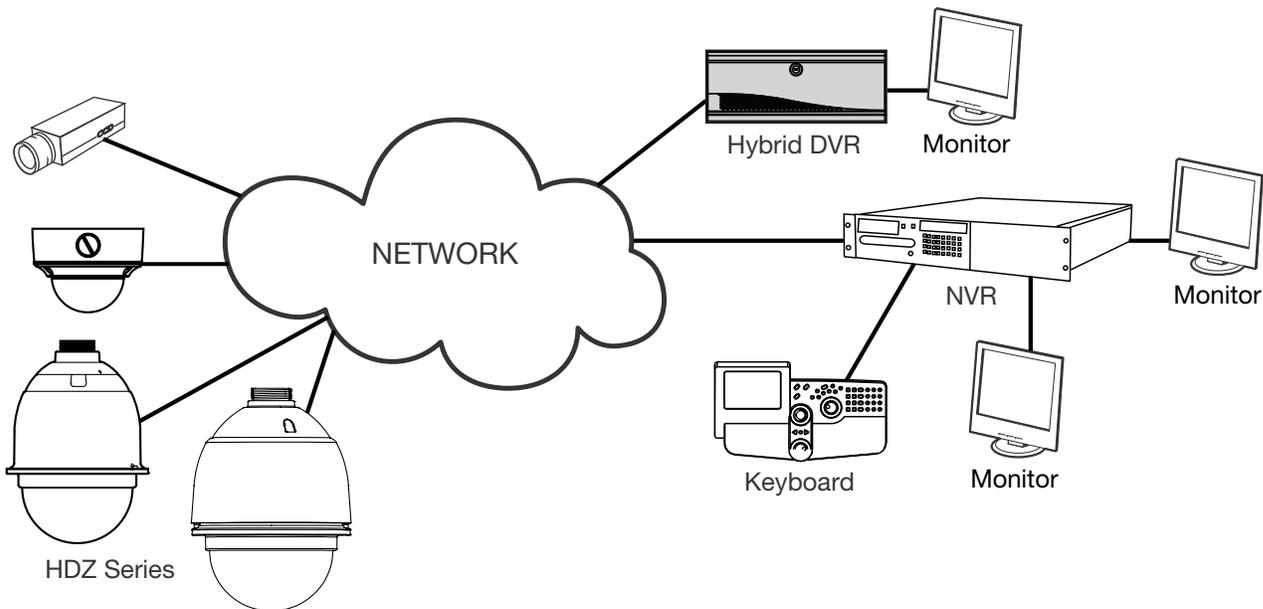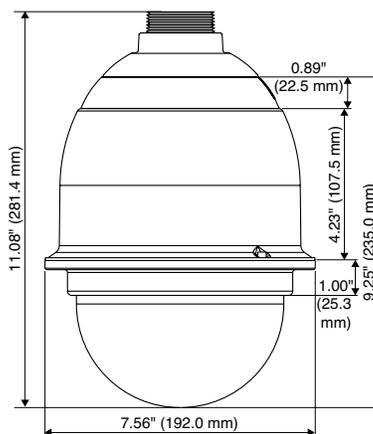
Outdoor Pendant

Indoor Pendant
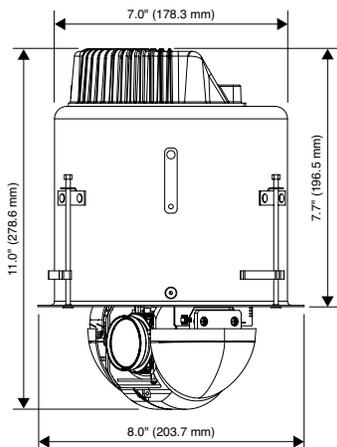
Using In-Ceiling Back Can Housing (HDZHINKIT)
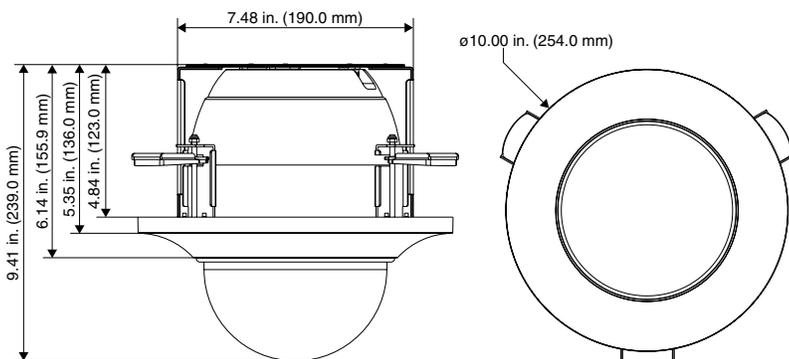
Using In-Ceiling Bracket (HDZINBKT)

HDZ SERIES – 1080p HD IP PTZ DOMES

SPECIFICATIONS

CAMERA	
SCANNING SYSTEM	NTSC
IMAGE SENSOR	1/2.8" Sony Progressive CMOS
OPTICAL ZOOM	**HDZ22HD/HDZ22HDE:** 22x **HDZ30HD/HDZ30HDE:** 30x
DIGITAL ZOOM	12x
NUMBER OF PIXELS (H X V)	1920x1080 (1080p)
SHUTTER WDR	On/Off (> 96 dB)
S/N RATIO	> 50 dB (AGC Off)
MINIMUM ILLUMINATION	0.02 lux (color)/0.005 lux (B/W) @ F1.6, 50 IRE
FOCAL LENGTH	HDZ22HD/HDZ22HDE: 4.3-94.6 mm HDZ30HD/HDZ30HDE: 4.3-129 mm
FOCUS MODE	Manual/Auto (Continuous/ PTZ Trigger/Zoom Trigger)
WHITE BALANCE	Auto/Indoor/Outdoor/ATW/Manual
IRIS CONTROL	Auto/Manual/P-Iris
ELECTRONIC SHUTTER	1/1 to 1/10k sec.
AGC	Auto/Manual (Max Gain limit settings for Full Auto, Shutter Priority, and Iris Priority)
BACKLIGHT COMPENSATION	On/Off

OPERATIONAL		
MULTI-LANGUAGE GUI		English, French, German, Italian, Russian, Spanish, Portuguese, Dutch, Czech, Polish, Japanese, Chinese
PAN TRAVEL		360° endless
TILT TRAVEL		-10° to 190°
MANUAL PAN SPEED		0.5° to 200°/s
MANUAL TILT SPEED		0.5° to 90°/s
PRESETS		256
PRESET ACCURACY		0.225°
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
MOTION DETECTION		On/Off
ELECTRONIC IMAGE STABILIZATION		On/Off
GAMMA WDR		On/Off
P-IRIS		F9.6 – F16
DAY/NIGHT: IR CUT FILTER		Auto/On/Off
IMAGE ROTATION		Flip/Mirror/Inverse/Portrait
NOISE REDUCTION	2D	On/Off
	3D	On/Off
ALARM	Inputs	x4
	Outputs	x2
ALARM REACTION		Preset, Preset tour, Auto pan, Mimic tour
EVENT NOTIFICATION		HTTP, FTP, SMTP

	HDZ INDOOR	HDZ OUTDOOR
ELECTRICAL		
POWER SOURCE	24 V AC ± 10% and PoE+ (IEEE 802.3at-2009)	24 V AC ± 10% and PoE++
POWER CONSUMPTION	25.5 W	59 W (with heater)
MECHANICAL		
DIMENSIONS	ø 7.6" x 11.1" ø192.0 x 281.4 mm	ø 7.6" 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 122°F (0°C to 50°C)	−49°F to 131°F (−45°C to 55°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/MJPEG	
VIDEO STREAMING	Quad streaming: H.264 and MJPEG Controllable frame rate and bandwidth Constant or variable bit rate	
VIDEO RESOLUTION	Up to 1920x1080p	
FRAME RATES	720p: Up to 60/50 fps 1080p: Up to 30/25 fps	
AUDIO COMPRESSION	G.711/G.726 ADPCM	
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	3 at 1080p/5 at D1 (NTSC: 720x480)	
SECURITY	User account and password protection HTTPS, IP Filter, IEEE 802.1x	
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	EU: EN60950-1, EN60950-22 North America UL listed to UL/CSA 60950-1	
ROHS	EN50581	

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.

HDZ SERIES – 1080p HD IP PTZ DOMES

ORDERING

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 (version 2.4)	

HONEYWELL DEVICE INTEGRATION	
Recorders	
ENTERPRISE NVR SERIES	Enterprise Class Digital Network Video Recorder System (pending release 6.5 and greater)
MAXPRO® NVR FAMILY	Entry to Enterprise Level Network Video Recorders (version 3.1 and greater)
FUSION NVR/DVR	8, 16 and 32 Channel Network Video Recorders (version 4.50.10806 and greater)

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

CAMERAS	
HDZ22HD	Network TDN Indoor Pendant PTZ Dome, 1080p Resolution, 4.3 – 94.6 mm Lens, 22x Zoom, H.264, NTSC, micro SD Card Compatible (Supports up to 64 GB cards)
HDZ30HD	Network TDN Indoor Pendant PTZ Dome, 1080p Resolution, 4.3 – 129 mm Lens, 30x Zoom, H.264, NTSC, micro SD Card Compatible (Supports up to 64 GB cards)
HDZ22HDE	Network TDN Outdoor Pendant PTZ Dome, 1080p Resolution, 4.3 – 94.6 mm Lens, 22x Zoom, H.264, NTSC, micro SD Card Compatible (Supports up to 64 GB cards)
HDZ30HDE	Network TDN Outdoor Pendant PTZ Dome, 1080p Resolution, 4.3 – 129 mm Lens, 30x Zoom, H.264, NTSC, micro SD Card Compatible (Supports up to 64 GB cards)
HDZ22HDIN*	Network TDN Indoor In-Ceiling Back Can PTZ Dome, 1080p Resolution, 4.3 – 94.6 mm Lens, 22x Zoom, H.264, NTSC, micro SD Card Compatible (Supports up to 64 GB cards)
HDZ30HDIN*	Network TDN Indoor In-Ceiling Back Can PTZ Dome, 1080p Resolution, 4.3 – 129 mm Lens, 30x Zoom, H.264, NTSC, micro SD Card Compatible (Supports up to 64 GB cards)

* **Note:** Lower dome not included; must be ordered separately.
 Note: 'ONVIF' are trademarks of ONVIF Inc.

For more information

www.honeywell.com/security

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