

HDZ SERIES – 1080P HD IP PTZ DOMES

equiP® SERIES 1080P INDOOR AND OUTDOOR PTZ NETWORK CAMERAS WITH WIDE DYNAMIC RANGE

Honeywell's latest addition to the equiP® Series of IP-based products, the high definition, True Day/Night HDZ PTZ series provides extremely crisp video up to 2 million effective pixels and up to 20x zoom for continuous surveillance in outdoor and indoor applications.

HDZ provides 1080p (1920 x 1080) 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 colour rendition through a wide variety of lighting conditions. HDZ also supports the ONVIF specification for interoperability between network video products.

HDZ has support for Power over Ethernet (PoE) and installing either model is simple. In the event of a failure with the network, HDZ has the option to record captured video to a Micro SDHC 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 camera in the outdoor version is housed by an IP66 rated tamper-resistant dome to prevent the camera from damage by ingress of dust and heavy rain.

HDZ supports dual video streams and adopts multiple compression formats (H.264/MJPEG) with rates up to 30 frames per second (25 fps for PAL systems). The digital compression parameters for the two 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, roads, airports, government facilities, schools and campuses, industrial environments and anywhere detailed surveillance is essential.

Features

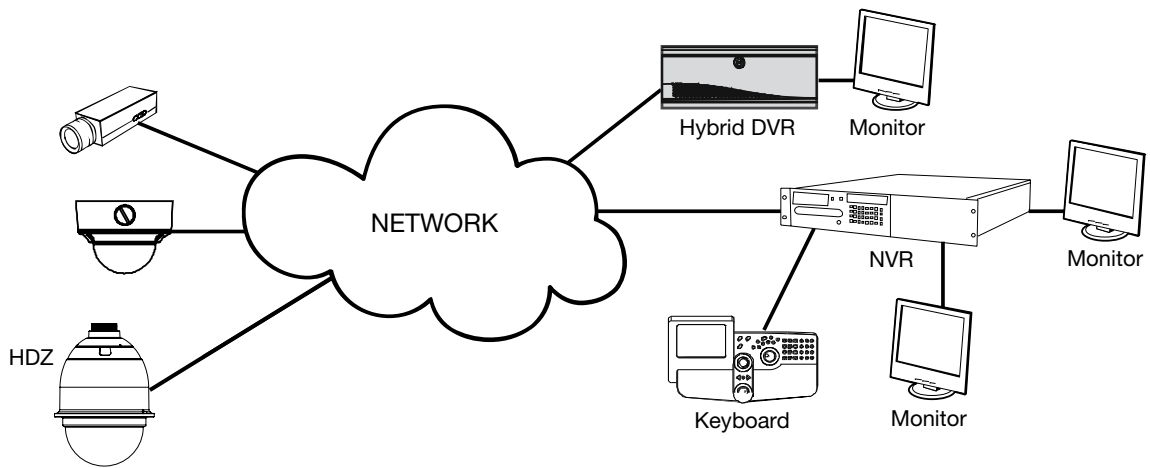
- 20x optical zoom
- On board camera storage – Micro SDHC card support (up to 32GB)
- Up to 30 fps (25 fps PAL) progressive scan
- Wide Dynamic Range
- ONVIF compatible
- Supports both dynamic and static IP addresses
- Wide range of mounting options available (1.5" NPT)
- High preset speed up to 400°/sec
- Selectable compression formats
- Choice of 24 VAC or PoE power inputs (24 VAC required for outdoor model heater)
- Vandal proof acrylic



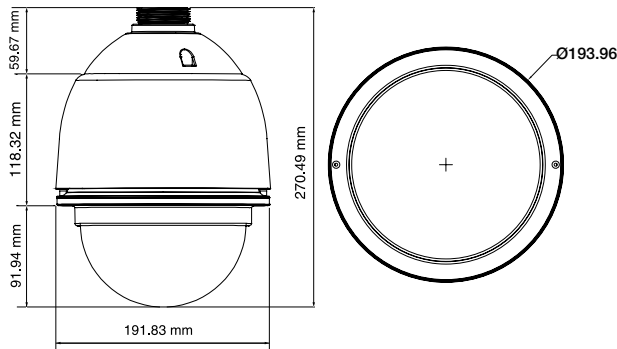
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SYSTEM DIAGRAM AND DIMENSIONS

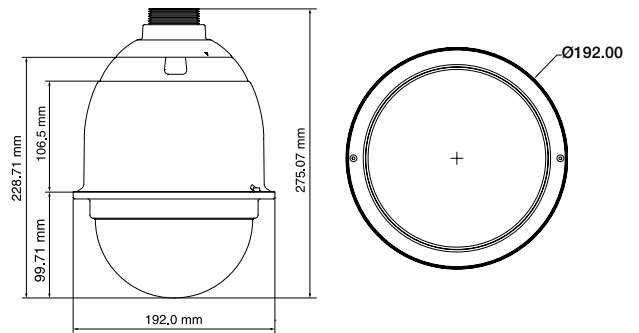
System Diagram



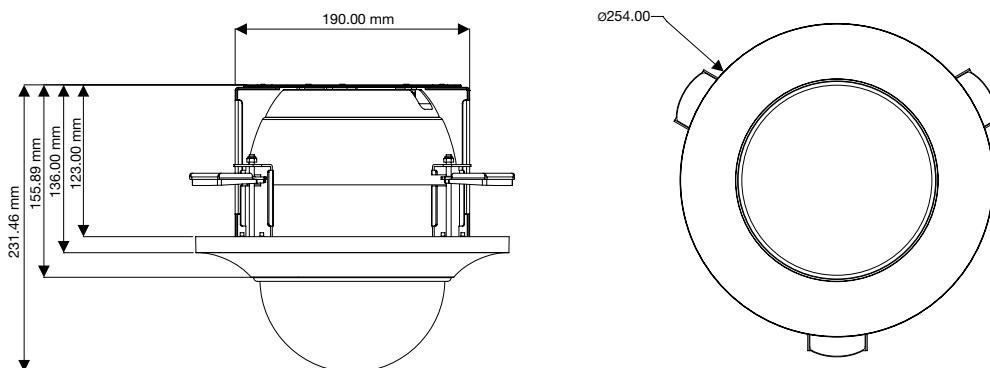
Dimensions



Outdoor Pendant



Indoor Pendant



Using In-Ceiling Bracket

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SPECIFICATIONS

Camera	
Scanning System	NTSC/PAL
Image Sensor	1/2.8" Sony CMOS
Optical Zoom	20x
Number of Pixels (H x V)	1920 x 1080 (1080p)
Wide Dynamic Range	On/Off
S/N Ratio	> 50 dB (AGC Off)
Minimum Illumination	0.05 lux (colour)/0.01 lux (B/W) @F1.6, 30 IRE
Focal Length	4.7 to 94 mm
Focus Mode	Auto/Manual
White Balance	Auto/Indoor/Outdoor/ATW/Manual
Iris Control	Auto/Manual
Electronic Shutter	1/1 to 1/10k sec.
AGC	Auto/Manual (Max Gain limit settings for Full Auto, Shutter Priority, and Iris Priority modes)
Back Light Compensation	On/Off
Operational	
Multi-Language GUI	English, French, German, Italian, Russian, Spanish, Portuguese, Dutch, Czech, Polish, Chinese
Pan Travel	360° endless
Tilt Travel	-10° to 190°
Manual Speed	0.5° to 200°/s
Presets	256
Manual Tilt Speed	0.5° to 84°/s
Preset Accuracy	0.225°
Maximum Preset Speed	Up to 400°/s
Preset Tours	8
Auto Pan	4
Mimic Tours	8
Privacy Mask	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
Wide Dynamic Range	On/Off
Day/Night: IR Cut Filter	Auto/On/Off
Image Rotation	Flip/Mirror/Inverse/Portrait
Noise Reduction	2D On/Off

	HDZ Indoor	HDZ Outdoor
Electrical		
Power Source	24 VAC ± 10% and PoE+ (IEEE 802.3at-2009)	24 VAC ± 10% and PoE + (IEEE 802.3at-2009) (without heater)
Power Consumption	20 W	50 W (with heater)
Mechanical		
Dimensions	ø192 x 275.07mm	ø193.96 x 270.49mm (with sunshield)
Weight	2.2 kg (3.1 kg with in-ceiling bracket)	2.6 kg (with sunshield)
Environmental		
Operating Temperature	0°C to 40°C	-45°C to 55°C**
Relative Humidity	10% to 90%, non-condensing	
Waterproof Standard	IP66 standard (HDZ Outdoor)	
IP Specifications		
Video Compression	H.264 Main Profile/MJPEG	
Video Streaming	Dual streaming: H.264 and MJPEG Controllable frame rate and bandwidth Constant or variable bit rate	
Video Resolution	Up to 1920 x 1080p	
Frame Rate	Up to 30/25 fps	
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, QoS, ONVIF	
Simultaneous Users	3 at 1080p/5 at D1 (720x576(PAL), 720x480(NTSC))	
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 SDHC up to 32GB (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 32bit/64bit	
Regulatory		
Communication	ONVIF Support	
Emissions	CE EN61000-6-3, FCC Part 15B	
Immunity	CE EN50130-4	
Safety	EU: EN60950-1, EN60950-22	

Notes: *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 naturally the protocols will mature over time.

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ACCESSORIES, SYSTEM COMPATIBILITY AND ORDERING

Accessories	
HDZVRSMKAC	Smoked Polycarbonate Vandal Proof Acrylic for HDZ Series
HDZINBKT	In-Ceiling Bracket for HDZ Series
517082-7130	In-Ceiling PTZ Support Plate
HDVWM1	Indoor Only Wall Mount
HDXWM2	Indoor and Outdoor Wall Mount
HDXSM1	Half Swan Neck Pole Mount
HDPRM2	Parapet and Roof Mount
HDCM1	Ceiling mount for Indoor Pendant (Not for outdoor use)
HDXPMA2	Pole Mount Adapter for HDXWM2
HDXCMA1	Corner Mount Adapter for HDXWM2

System Compatibility	
(Note: For latest system compatibility information, visit www.honeywell.com/security/uk)	
Open IP Integration	
ONVIF support for interoperability between Honeywell and other manufacturer's IP-enabled security devices.	
Honeywell Device Integration	
Hybrid DVR	
Fusion	Full Featured Hybrid Digital Video Recorder
NVRs	
Fusion NVR	8, 16 and 32 Channel Network Video Recorders
MAXPRO® NVR Family	Entry to Enterprise Level Network Video Recorders
Enterprise NVR Series	Enterprise Class Digital Network Video Recorder System
DVM	Digital Video Manager

Ordering	
HDZ20HDX	Network True Day/Night 1080p PTZ Dome, Indoor Pendant, Clear, 20X, H.264, PAL, Micro SDHC Compatible (Supports up to 32GB cards)
HDZ20HDEX	Network True Day/Night 1080p PTZ Dome, Outdoor Pendant, Clear, 20X, H.264, PAL, Micro SDHC Compatible (Supports up to 32GB cards)
HDZ20HD	Network True Day/Night 1080p PTZ Dome, Indoor Pendant, Clear, 20X, H.264, NTSC, Micro SDHC Compatible (Supports up to 32GB cards)
HDZ20HDE	Network True Day/Night 1080p PTZ Dome, Outdoor Pendant, Clear, 20X, H.264, NTSC, Micro SDHC Compatible (Supports up to 32GB cards)

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



For additional information,

please visit www.honeywell.com/security/uk

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