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 at 5 to 400°/sec
- Selectable compression formats
- Choice of 24 VAC or PoE power inputs (24 VAC required for outdoor model heater)
- Vandal proof acrylic
HDZ SERIES – 1080P HD IP PTZ DOMES

SYSTEM DIAGRAM AND DIMENSIONS

System Diagram

Dimensions

Outdoor Pendant

Indoor Pendant

Using In-Ceiling Bracket
**HDZ SERIES – 1080P HD IP PTZ DOMES**

### Specifications

#### Camera

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scanning System</td>
<td>NTSC/PAL</td>
</tr>
<tr>
<td>Image Sensor</td>
<td>1/2.8&quot; Sony CMOS</td>
</tr>
<tr>
<td>Optical Zoom</td>
<td>20x</td>
</tr>
<tr>
<td>Number of Pixels (H x V)</td>
<td>1920 x 1080 (1080p)</td>
</tr>
<tr>
<td>Wide Dynamic Range</td>
<td>On/Off</td>
</tr>
<tr>
<td>S/N Ratio</td>
<td>&gt; 50 dB (AGC Off)</td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td>0.05 lux (colour)/0.01 lux (B/W) @F1.6, 30 IRE</td>
</tr>
<tr>
<td>Focal Length</td>
<td>4.7 to 94 mm</td>
</tr>
<tr>
<td>Focus Mode</td>
<td>Auto/Manual</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto/Indoor/Outdoor/ATW/Manual</td>
</tr>
<tr>
<td>Iris Control</td>
<td>Auto/Manual</td>
</tr>
<tr>
<td>Electronic Shutter</td>
<td>Auto/Manual</td>
</tr>
<tr>
<td>AGC</td>
<td>Auto/Manual (Max Gain limit settings for Full Auto, Shutter Priority, and Iris Priority modes)</td>
</tr>
<tr>
<td>Back Light Compensation</td>
<td>On/Off</td>
</tr>
</tbody>
</table>

#### 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°

##### Preset Speed

- 5° 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

- On/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

#### Electrical

<table>
<thead>
<tr>
<th></th>
<th>HDZ Indoor</th>
<th>HDZ Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>24 VAC ± 10% and PoE+ (IEEE 802.3at-2009)</td>
<td>24 VAC ± 10% and PoE+ (IEEE 802.3at-2009) (without heater)</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>20 W</td>
<td>50 W (with heater)</td>
</tr>
</tbody>
</table>

#### Mechanical

<table>
<thead>
<tr>
<th>Dimension</th>
<th>HDZ Indoor</th>
<th>HDZ Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>ø192 x 275.07mm</td>
<td>ø193.96 x 270.49mm (with sunshield)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.2 kg (including in-ceiling bracket)</td>
<td>2.6 kg (with sunshield)</td>
</tr>
</tbody>
</table>

#### Environmental

- Operating Temperature: 0°C to 40°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
- 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

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

**Note: 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.*
# HDZ SERIES – 1080P HD IP PTZ DOMES

## ACCESSORIES, SYSTEM COMPATIBILITY AND ORDERING

### Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDZVRSMKAC</td>
<td>Smoked Polycarbonate Vandal Proof Acrylic for HDZ Series</td>
</tr>
<tr>
<td>HDZINBKT</td>
<td>In-Ceiling Bracket for HDZ Series</td>
</tr>
<tr>
<td>517082-7130</td>
<td>In-Ceiling PTZ Support Plate</td>
</tr>
<tr>
<td>HDVWM1</td>
<td>Indoor Only Wall Mount</td>
</tr>
<tr>
<td>HDXWM2</td>
<td>Indoor and Outdoor Wall Mount</td>
</tr>
<tr>
<td>HDXSM1</td>
<td>Half Swan Neck Pole Mount</td>
</tr>
<tr>
<td>HDPRM2</td>
<td>Parapet and Roof Mount</td>
</tr>
<tr>
<td>HDCM1</td>
<td>Ceiling mount for Indoor Pendant (Not for outdoor use)</td>
</tr>
<tr>
<td>HDXPMA2</td>
<td>Pole Mount Adapter for HDXWM2</td>
</tr>
<tr>
<td>HDXMA1</td>
<td>Corner Mount Adapter for HDXWM2</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Hybrid DVR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusion</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NVRs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusion NVR</td>
</tr>
<tr>
<td>MAXPRO® NVR Family</td>
</tr>
<tr>
<td>Enterprise NVR Series</td>
</tr>
<tr>
<td>DVM</td>
</tr>
</tbody>
</table>

### Ordering

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDZ20HDX</td>
<td>Network True Day/Night 1080p PTZ Dome, Indoor Pendant, Clear, 20X, H.264, PAL, Micro SDHC Compatible (Supports up to 32GB cards)</td>
</tr>
<tr>
<td>HDZ20HDEX</td>
<td>Network True Day/Night 1080p PTZ Dome, Outdoor Pendant, Clear, 20X, H.264, PAL, Micro SDHC Compatible (Supports up to 32GB cards)</td>
</tr>
<tr>
<td>HDZ20HD</td>
<td>Network True Day/Night 1080p PTZ Dome, Indoor Pendant, Clear, 20X, H.264, NTSC, Micro SDHC Compatible (Supports up to 32GB cards)</td>
</tr>
<tr>
<td>HDZ20HDE</td>
<td>Network True Day/Night 1080p PTZ Dome, Outdoor Pendant, Clear, 20X, H.264, NTSC, Micro SDHC Compatible (Supports up to 32GB cards)</td>
</tr>
</tbody>
</table>

Note: ‘ONVIF’ and ONVIF are trademarks of ONVIF Inc.

For additional information, please visit www.honeywell.com/security/me

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