# PD1024

**4MP IP PTZ dome camera with 25x motor zoom lens, IR, 1/2.8" CMOS**

## DESCRIPTION

The PD1024 is a compact PTZ dome suitable for indoor and outdoor usage. With its 25x optical zoom block, it can stream 4MP resolution images from up close and far away. The camera supports the latest technology such as H.265, for an even better compression of the video stream; to save bandwidth and storage requirements. The PD1024 offers many image enhancement techniques, such as BLC and HLC, Electronic Image Stabilization, Defog and 3D DNR.

## FEATURES

- 1/2.8 Progressive scan CMOS
- 4.8 to 120 mm zoom lens
- 2560x1440 (4MP)
- 120 dB WDR
- Triple-stream H.265, H.264 and MJPEG video
- Day/Night with IR-cut filter / WDR / BLC
- Electronic Image Stabilisation
- ONVIF Profile S, T, G



## Description

**Small form factor moveable PTZ camera**
The PD1024 is a compact form factor dome camera with PTZ capabilities. It is the ideal companion camera for building security with active surveillance. With the 25 times zoom capability, it will be possible to overview even the larger halls and walkways.

**Multi-encoder & multi-streaming**

**High-Efficiency Video Coding (HEVC)**
H.265 or HEVC is a video compression standard, the successor of H.264. In comparison, H.265 offers about double the compression ratio at the same level of video quality or substantially improved video quality at the same bit rate. Thus saving bandwidth and recording space.

**ONVIF**
Multiple options are available to easily integrate the PD1024 into a video management system. In support of open standards, the camera is ONVIF conformant. Any VMS today supports this camera via its ONVIF driver.

**Image enhancement**
The PD1024 features a set of tools to enhance the image quality, such as smart IR, Defog, BLC, and 3D noise reduction.

**Ease of installation**
The PD1024 comes with mounting options (seaparately sold) for pendant wall mounting and pole mounting.

(c) 20260420

| Camera | |
|---|---|
| Image sensor | 1/2.8" CMOS |
| Max. Resolution | 2560x1440 (4MP) |
| Max. Frame rate | 30 fps |
| Minimum scene illumination | 0.005 lx (Color); 0.001 lx (B/W); F1.6 |
| Shutter Speed | 1 .. 1/30000 s |
| Lens | Motorized 4.8 .. 120 mm (25x zoom), F1.6, Auto-iris |
| Field of View | 53.3° .. 2.6° horizontal, 30.6° .. 1.5° vertical |
| Focus Control | Auto, Semi-auto, Manual |
| Slow Shutter | Supported |
| Day/Night | Automatic IR-cut Filter |
| IR illumination | 50 m; 850 nm |

| Video | |
|---|---|
| Stream 1 resolutions | 2560x1440, 1920x1080, 1280x960, 1280x720 |
| Stream 2 resolutions | 640x480, 4CIF, CIF |
| Stream 3 resolutions | 1920x1080, 1280x960, 1280x720, 640x480, 4CIF, CIF |
| Video Compression | H.265, H.264, MJPEG |
| H.264 profiles | Baseline profile, Main profile, High profile |
| H.265 profiles | Main profile |
| Video Bitrate | 32 .. 8000 kbps |
| Bitrate Control | CBR, VBR |
| Number of video output streams | Up to 20 |
| Region of interest | Supported, 8x |

| Image | |
|---|---|
| Image control | Brightness, Contrast, Saturation, Sharpness, Whitebalance, AGC |
| Day/Night control | Day, Night, Auto, Schedule |
| Wide dynamic range | 120 dB |
| SNR | 52 dB |
| Image enhancement | BLC, HLC, Defog, 3DNR, 2DNR |
| Rotation | 0°, 180° |
| Privacy masks | 24 (Solid, Mosaic) |
| Text and picture overlay | 8x Text, Date/time, Camera name, Image (bmp) |
| Digital Zoom | 16x |

| PTZ | |
|---|---|
| Pan range | 0° .. 360° Endless |
| Tilt range | -5° .. 90° Auto flip |
| Pan speed | 0.1 .. 300 °/s; Preset: max. 350 °/s |
| Tilt speed | 0.1 .. 160 °/s; Preset: max. 200 °/s |
| Preset accuracy | 0.1° |
| PTZ functions | Presets (300x), Tour, Pattern, Pan scan, Tilt scan, Random scan, |
| | Calibrate North position, Speed by zoom |

# Specs

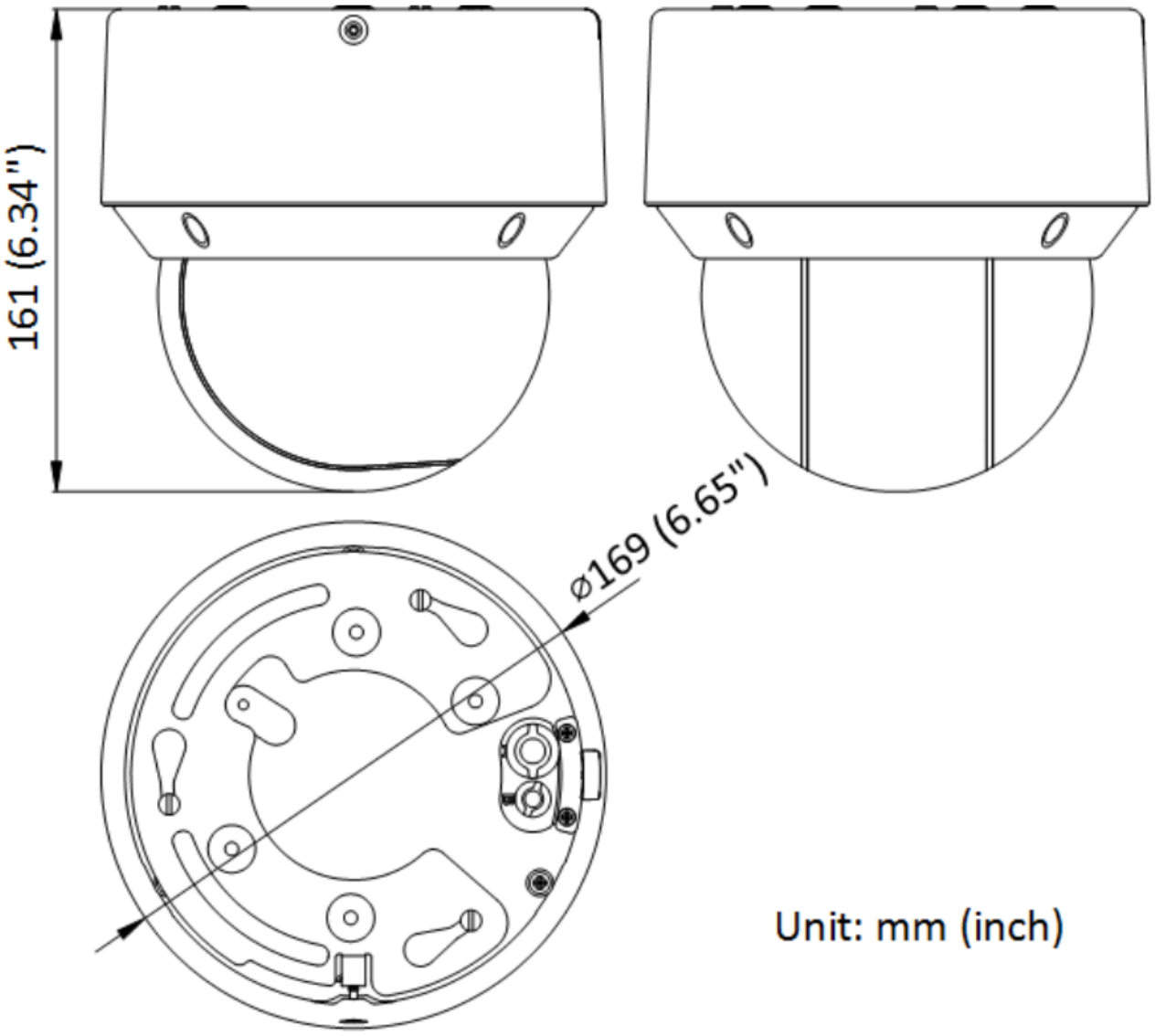
| | |
|---|---|
| **PTZ** | |
| Number of presets | 300 |
| **Mechanical adjustment** | |
| Pan range | 0° .. 360° Endless |
| Tilt range | -5° .. 90° Auto flip |
| **Analytics** | |
| Smart analytics | Line crossing, Intrusion detection, Zone enter, Zone exit, |
| | Left luggage, Object removed, Face detection |
| Event detections | Motion detection, Tampering, Network disconnected, |
| | IP address conflict, Invalid login, Storage full, Storage error, |
| | Audio detection |
| Event actions | Alarm output, Record video clip, Send message, Upload image |
| **Audio** | |
| Audio input | 1x Line IN (mono) |
| Audio output | 1x Line OUT (mono) |
| Compression | G.711ulaw, G.711alaw, G.722.1, G.726, MP2L2, PCM, AAC-LC |
| **Alarm** | |
| Input | 2x Alarm IN |
| Output | 2x Digital OUT |
| **Network** | |
| Interface | 100Base-TX (FE, IEEE 802.3u), MDI/MDI-X Auto negotiation, |
| | Flow control (IEEE 802.3x) |
| Protocols | TCP, UDP, ICMP, HTTP, FTP, SRTP, RTP, DHCP, DNS, DDNS, RTSP, RTCP, |
| | PPPoE, NTP, UPnP, SMTP, SNMP v1/v2/v3, IGMP v1/v2, 802.1x, QoS, IPv4, |
| | IPv6, Bonjour, TLS v1.0/v1.1/v1.2/v1.3, ONVIF Profile S/G/T, SPI, |
| | ISAPI, SMB, NFS, CIFS |
| Interoperability | ONVIF Profile S/G/T, SPI, ISAPI |
| Security | Password, Complex password, HTTPS encryption, |
| | 802.1x port authentication, EAP, Watermark, IP address filter, |
| | Basic authentication, Digest authentication, HTTP authentication, |
| | ONVIF WSSE authentication, ONVIF digest authentication, |
| | RTP over HTTPS, RTSP over HTTPS, SRTP, Logout after idle timeout, |
| | Security audit log, TLSv1.2 (HTTPS, 802.1x), TLSv1.3 (HTTPS, 802.1x), |
| | Signed firmware, Secure boot |
| Web browser | Internet Explorer 11, Microsoft Edge, Google Chrome, Mozilla Firefox |
| Local Storage | Supported, max. 256 GB |
| **Environmental** | |
| Protection Level | IP66 |

# Specs

| | |
|---|---|
| **Environmental** | |
| Operating temperature | -30 .. 60 °C (-22 .. 140 °F) |
| Relative humidity (Operating) | Max. 90% (non-condensing) |
| Storage temperature | -30 .. 60 °C (-22 .. 140 °F) |
| Relative humidity (Storage) | Max. 90% (non-condensing) |
| Demister/Heater | Built-in |
| Power supply | DC 12 V +/-10% (max. 24W) |
| | PoE 802.3at |
| Overvoltage protection | TVS 6000V lightning protection, |
| | surge protection and voltage transient protection |

| | |
|---|---|
| **Mechanical** | |
| Material | |
| Connectivity | Cable tail (27 cm, 10.6 inch) |
| Product dimensions | 169 x 169 x 161 |
| Product weight | 2.5 kg (5.4 lbs) |
| Package dimensions | 216 x 216 x 260 |
| Package weight | 3.3 kg (7.3 lbs) |
| Color | Signal white, black |

| | |
|---|---|
| **Ordering Information** | |
| PD1024 | 4MP IP PTZ dome camera with 25x motor zoom, IR, 1/2.8" CMOS |
| JB02 | Junction box, for PD1022v2, PD1024 |
| WM18 | Wall mount, for PD1022v2 and PD1024 |
| PM06 | Pole mount, for PD1000/2000-series |
| CM19 | Flush mount, for PD1022v2, PD1024 |
| DC33 | Dome cover, transparent, for PD1022v2, PD1024 |
| DC33S | Dome cover, smoked, for PD1022v2, PD1024 |


161 (6.34")
ø169 (6.65")
Unit: mm (inch)

## RELATED



**TKH Security WM18**
Wall mount, for PD1022v2, PD1024



**TKH Security JB02**
Junction box, for PD1022v2, PD1024



**TKH Security CM19**
Flush mount, for PD1022v2, PD1024



**TKH Security DC33**
Dome cover, transparent, vandal proof, for PD1102v2, PD1024



**TKH Security DC33S**
Dome cover, smoked, vandal proof, for PD1102v2, PD1024