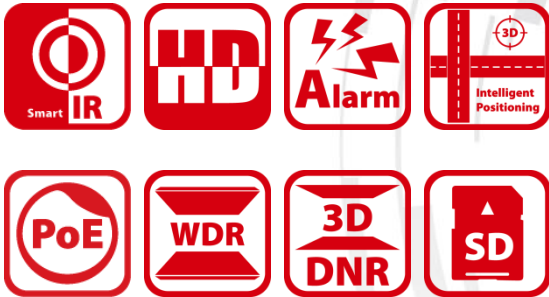# DS-2DE2204IW-DE3
2.0 MP Network IR Mini PTZ Camera

This IR Mini PTZ Camera shows the easy installation, adjustment, and maintenance. It is a camera for indoor area such as the café, hotel, office lobby, small shop, etc. In addition, DS-2DE2204IW supports 4x zoom, Hik-Connect, and PoE & 12VDC power supply. Embedded with 1/2.8" progressive scan CMOS chip makes DWDR and 2.0MP real-time resolution possible. With the pan/tilt, 4x zoom Day/Night IR cut filter, and the IR lights, the camera offers more details in the indoor environments.

Hikvision DS-2DE2204IW Mini PTZ Camera also features a wide range of functions, including intrusion detection, line crossing detection, audio exception detection, motion detection, and video tampering detection, benefitting users with great improvement on security efficiency, more importantly, with key events/objects being recorded for further forensic needs.

Key Features

- 1/2.8" Progressive Scan CMOS
- 1920 × 1080@30fps Resolution
- 4x Zoom
- DWDR
- 3D positioning
- PoE (802.3af)
- Hik-Connect
- Up to 20m IR distance
- H.265+/H.265

Function Description

Basic Function

- H.265+/H.265/H.264+/H.264/MJPEG video compression, up to 1920 × 1080@30fps resolution
- PoE (802.3af)
- Mirror, and one-key restore
- Supports Hikvision SDK, ONVIF, CGI, ISAPI, and Hik-Connect
- 3D positioning
- ±0.1° preset accuracy
- Power-off memory: restore PTZ and Lens status after reboot

Smart Function

- Smart detection: intrusion detection, line crossing detection, audio exception detection, motion detection, and video tampering detection
- Smart recording: edge storage, smart search in smart NVR, and VCA playback
- Smart image Enhancement: HLC (High Light Compensation)
- Smart encoding: low bitrate, and ROI (Region of Interest) encoding
- Smart alarm: alarm for network disconnection, IP address conflict, HDD full, HDD error, and illegal login

IR Function

- Up to 20m IR distance
- Smart IR avoids overexposure
- 30,000 hours' lifespan

Camera Function

- 4 × optical zoom, 16 × digital zoom
- Auto iris, auto focus, auto white balance, backlight compensation and 3D DNR
- Min. Illumination: 0.05Lux@(F2.0, AGC ON) (Color), 0.005Lux@(F2.0, AGC ON) (B/W)

PTZ Function

- 0° to 350° pan range, and 0° to 90° tilt range
- 0.1° to 60°/s manual pan speed, and 0.1° to 50°/s manual tilt speed
- 300 programmable presets
- 8 patrols, up to 32 presets for each patrol
- Proportional zoom, and park action
- 1 alarm input, 1 alarm output, and alarm linkage which is able to perform alarm actions, such as Send Email, Notify Surveillance Center, Upload to FTP/Memory Car/NAS, Trigger Recording, etc.

Network Function

- Micro SD/SDHC/SDXC card storage, up to 128GB
- Built-in microphone with 1 audio input and 1 audio output
- Supports NAS storage, and able to transmit the videos from Memory card to the NAS after network resumed
- HTTPS encryption and IEEE 802.1x port-based network access control
- Supports three streams, H.265+/H.265/H.264+/H.264/MJPEG video compression, and baseline, main and high profiles
- Supports multiple network protocols: IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, Bonjour

Specification

Camera Module	DS-2DE2204IW-DE3
Image Sensor	1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.05 Lux @ (F2.0, AGC ON), B/W: 0.005Lux @ (F2.0, AGC ON)
Day & Night	IR Cut Filter
Focus Mode	Auto
Shutter Speed	1/1 to 1/10,000s
Digital Zoom	16×
White Balance	Auto/manual/ATW (auto tracing white balance)/indoor/outdoor/daylight lamp/sodium lamp
AGC	Auto/Manual
Backlight Compensation	Yes
Wide Dynamic Range	Yes
DNR (Digital Noise Reduction)	Yes
Privacy Mask	8 programmable privacy masks
Lens	
Focal Length	2.8 to 12mm, 4×
Field of View	100° to 25° (wide-tele)
Working Distance	10 to 1500mm (wide-tele)
Zoom Speed	Approx. 2s (optical lens, wide-tele)
Aperture Range	F1.8 to F2.5
Smart	
Smart Detection	Intrusion detection, line crossing detection, audio exception detection, motion detection, and video tampering detection
Smart Recording	Edge storage, smart search in smart NVR, and VCA playback
Smart Image Enhancement	HLC
Smart Encoding	Low bitrate, and ROI (Region of Interest) encoding
Smart Alarm	Alarm for network disconnection, IP address conflict, HDD full, HDD error, and illegal login
Network	
Stream	Support three streams
Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub Stream	50Hz:25fps(704×576,640×480,352×288);60Hz:30fps(704×480,640×480,352×240)
Three Stream	50Hz:25fps (1920×1080,1280×960,1280×720,704×576,640×480,352×288); 60Hz: 30fps(1920×1080,1280×960,1280×720,704×480,640×480,352×240)
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG
Audio compression	G.711alaw/G.711ulaw/G.722/G.726/MP2L2/PCM
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, Bonjour
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK
Simultaneous Live View	Up to 20 users
User/Host	Up to 32 users, 3 levels: Administrator, Operator, and User
Security Measures	User authentication (ID and PW), host authentication (MAC address), IP address filtering, HTTPS encryption and IEEE 802.1x port-based network access control
Pan and Tilt	
Movement Range	Pan: 350°, Tilt: 0° to 90°

Movement Speed	Pan: 0.1° to 60°/s, Tilt: 0.1°to 50°/s
Preset No.	300
Patrol	8 patrols, up to 32 presets per patrol
Park Action	Preset/patrol/auto scan/tilt scan/random scan/frame scan/panorama scan
Scheduled Task	Preset/patrol/auto scan/tilt scan/random scan/frame scan/panorama scan/dome reboot/dome adjust/aux output
Proportional Zoom	Yes
Power-off Memory	Yes
Position Display	On/ Off
IR	
IR Distance	Up to 20m
Smart IR	Yes
System Integration	
Alarm I/O	1 alarm input, 1 alarm output
Alarm Linkage	Alarm actions, such as Send Email, Notify Surveillance Center, Upload to FTP/Memory Car/NAS, Trigger Recording etc.
Audio I/O	1 audio input, 1 audio output
Ethernet	1 RJ45 10M/100M Ethernet interface
Memory Card	Built-in memory card slot, supporting SD/SDHC/SDXC, up to 128GB
Client	iVMS-4200
Web Browser	IE 8 to 11, Chrome 31.0+, Firefox 30.0+, Edge 16.16299+
General	
Language (Web Browser Access)	32 languages. English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Power	DC 12V, and PoE (802.3af, class3) Max.: 9W, including max. 4W for IR
Working Temperature	-10°C to 50°C (-14°F to 122°F)
Working Humidity	≤ 90%
Protection Level	4,000V lightning protection, and surge protection
Dimensions(mm)	Φ125mm × 137.2mm (Φ4.9"×5.4")
Weight	Approx. 0.65kg (1.4lb)

DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view.
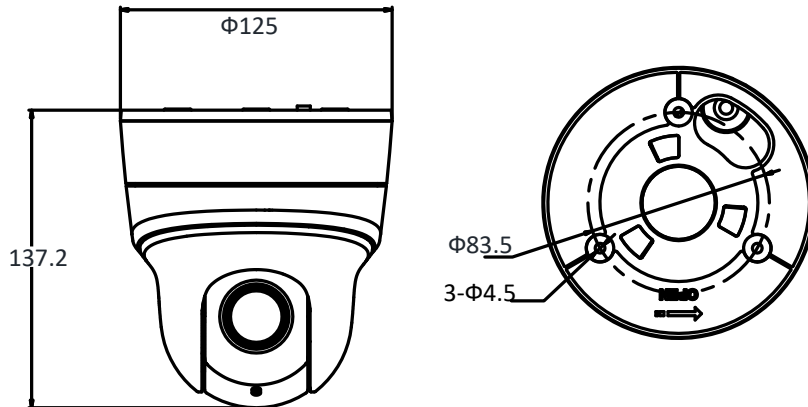
It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	120.0 m (393.7 ft)	47.6 m (156.2 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)

Order Model

DS-2DE2204IW-DE3

Dimension

Φ125

137.2

Φ83.5

3-Φ4.5

Accessory

Optional:

Distributed by DS-1294ZJ

Wall Mount

LAS60-57CN-RJ45

Hi-PoE midspan

MSA-C1500IC12.0-18P-US
MSA-C1500IC12.0-18P-GB
MSA-C1500IC12.0-18P-JP

Power adapter

05060020190521