

HIKVISION®

HiWatch Series

HWP-N2204IH-DE3 2MP 4x IR Network PTZ Camera



- Two-inch 2 MP camera with pan, tilt and zoom (4x) ability
- Efficient H.265+ compression technology to save bandwidth and storage
- Clear imaging against strong back light due to 120 dB true WDR technology
- Great night-time performance with up to 20 m enhanced IR
- Water and dust resistant (IP66), and vandal proof (IK10)



▪ Specification

Camera Module	
Image Sensor	1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.005 Lux @(F1.5, AGC ON),B/W: 0.001 Lux @(F1.5, AGC ON),0 Lux with IR
White Balance	Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp
Gain	Auto/Manual
Shutter Time	50Hz: 1/1 s to 1/30,000 s, 60Hz: 1/1 s to 1/30,000 s
Day & Night	IR Cut Filter
Digital Zoom	16×
Privacy Mask	24 programmable privacy masks
Focus Mode	Auto/Semi-automatic/Manual
WDR	120 dB WDR
Lens	
Focal Length	2.8 mm to 12 mm, 4× optical zoom
Zoom Speed	Approx. 2 s (optical lens, wide-tele)
Working Distance	10 mm to 1500 mm (wide-tele)
Aperture Range	F1.5 to F2.7
Angle of View	Horizontal field of view: 109° to 34° (Wide-Tele), Vertical field of view: 57° to 19° (Wide-Tele), Diagonal field of view: 135° to 39° (Wide-Tele)
Supplement Light	
IR Distance	20 m
Smart IR	Support
PTZ	
Movement Range (Pan)	0° to 355°
Pan Speed	Configurable, from 0.1°/s to 100°/s, Preset speed: 100°/s
Movement Range (Tilt)	0° to 90°
Tilt Speed	Configurable, from 0.1°/s to 100°/s, Preset Speed: 100°/s
Proportional Zoom	Support
Presets	300
Power-off Memory	Support
Compression Standard	
H.264+	Support
H.265+	Support
H.264 Type	Baseline Profile/Main Profile/High Profile
Video Compression	Main Stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, Third Stream: H.265/H.264/MJPEG
H.265 Type	Main Profile
Video Bitrate	32 Kbps to 16384 Kbps
Audio Compression	G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM
Audio Bitrate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 160 Kbps(MP2L2)
SVC	Support

Network	
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering
Network Storage	Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 256 GB; NAS (NPS, SMB/ CIFS), ANR
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, Websocket, Websockets
API	Open-ended, support Open Network Video Interface, ISAPI, and CGI, support HIKVISION SDK and Third-Party Management Platform, support Hik-Connect
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users, 3 levels: Administrator, Operator and User
Client	iVMS-4200, HikCentral Pro, Hik-Connect
Web Browser	IE 10-11, Chrome 57+, Firefox 52+, Safari 11+
Image	
Image Enhancement	3D DNR, BLC, HLC, Regional Exposure, Regional Focus
Max. Resolution	1920 × 1080
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)
Third Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288), 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)
Interface	
Audio Input	1-ch audio input
Audio Output	1-ch audio output
Network Interface	1 RJ45 10 M/100 M Ethernet, PoE
Built-in Microphone	1 built-in microphone, picking up sounds in the radius up to 5 meters
Smart Features	
Basic Event Detection	Motion Detection, Video Tampering Detection, Exception
Smart Detection	Face Detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Object Removal Detection, Unattended Baggage Detection, Audio Exception Detection
Smart Record	ANR (Automatic Network Replenishment), Dual-VCA
ROI	Main stream, sub-stream, and third stream respectively support two fixed areas.
General	
Material	Aluminum alloy, PC, PC+ABS
Dimensions	∅ 130.7 mm × 101.7 mm (∅ 5.15" × 4.00")
Weight	Approx. 0.53 kg (1.17 lb)
Protection Level	IP66 Standard, IK 10, TVS 4000V Lightning Protection, Surge Protection and Voltage Transient Protection
Power	12 VDC, 1.5 A (Max. 9.9 W, including max. 4.2 W for IR) PoE (802.3af), 36 to 57 VDC, 0.35 A (Max. 11.2 W, including max. 4.2 W for IR)
Working Temperature	-20°C to 60°C (-4°F to 140°F)
Working Humidity	≤ 90%

▪ Available Model

HWP-N2204IH-DE3 (F)

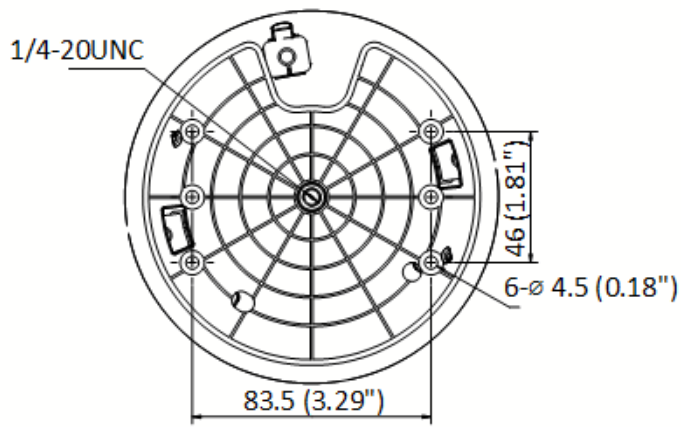
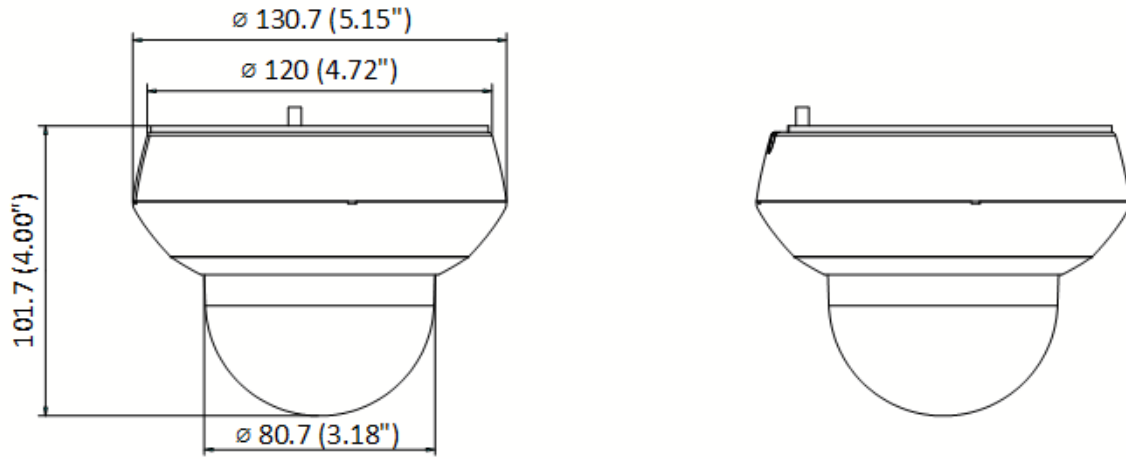
▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

▪ Dimension



Unit: mm (inch)

- Accessory
- Optional

DS-1294ZJ-PT





Distributed by



HIKVISION[®]
HiWatch Series

Headquarters

No.555 Qianmo Road, Binjiang District,
Hangzhou 310051, China
T +86-571-8807-5998
overseasbusiness@hikvision.com

Hikvision USA
T +1-909-895-0400
sales.usa@hikvision.com

Hikvision Italy
T +39-0438-6902
info.it@hikvision.com

Hikvision Singapore
T +65-6684-4718
sg@hikvision.com

Hikvision Africa
T +27 (10) 0351172
sale.africa@hikvision.com

Hikvision Europe
T +31-23-55-42-770
info.eu@hikvision.com

Hikvision France
T +33(0)1-85-330-450
info.fr@hikvision.com

Hikvision Oceania
T +61-2-8599-4233
salesau@hikvision.com

Hikvision Hong Kong
T +852-2151-1761

Hikvision Middle East
T +971-4-8816086
salesme@hikvision.com

Hikvision Spain
T +34-91-737-16-55
info.es@hikvision.com

Hikvision Canada
T +1-909-895-0400
sales.usa@hikvision.com

Hikvision Russia
T +7-495-669-67-99
saleru@hikvision.com

Hikvision Poland
T +48-22-460-01-50
poland@hikvision.com

Hikvision Korea
T +82-31-731-8841
sales.korea@hikvision.com

Hikvision India
T +91-22-28469900
sales@pramahikvision.com

Hikvision UK
T +01628-902140
support.uk@hikvision.com

Hikvision Brazil
T +55 11 3318-0050
Latam.support@hikvision.com