

## DS-2DY3220IW/3320IW-D/D4 2MP/3MP Network IR PTZ Camera



Hikvision DS-2DY3220IW/3320IW-D/D4 Network IR PTZ Cameras are able to capture high quality images in low light environment with its black anti-reflective glass. The black anti-reflective glass increases the luminousness which can reach up to 120m IR distance.

Embedded with 1/2.8" progressive scan CMOS chip makes WDR and 2MP/3MP real-time resolution possible. With the 20X optical zoom Day/Night lens, the camera offers more details over expansive areas.

- 1/2.8" Progressive Scan CMOS
- 1920 x 1080/ 2048 x 1536
- Support H.265 Video Compression
- 20X Optical Zoom
- WDR
- 3D intelligent positioning function
- Up to 120m IR distance
- 12VDC power supply



## Function Description

### Basic function

- High performance CMOS, up to 1920 x 1080/ 2048 x 1536 resolution.
- $\pm 0.1^\circ$  Preset Accuracy.
- ONVIF(Open Network Video Interface Forum), CGI(Common Gateway Interface), PSIA(Physical Security Interoperability Alliance), to ensure greater interoperability between different platforms and compatibility.
- 3D intelligent positioning function.
- 3D DNR.
- IP66 standard.
- 1 alarm inputs and 1 alarm outputs.

### Smart Function

- Smart image processing: support defog, HLC/BLC.
- Smart codec: low bit rate, ROI.
- Smart detection: support intrusion detection, line crossing detection, audio exception detection.

### Camera function

- Auto iris, auto focus, auto white balance, backlight compensation and auto day & night switch.
- Min. Illumination: Color: 0.05Lux @ (F1.6, AGC ON), B/W: 0.005Lux @ (F1.6, AGC ON).
- Support 8 privacy masks.
- 1 audio input and 1 audio output.

### PTZ functions

- 360° endless pan range and  $-40^\circ \sim 30^\circ$  tilt range.
- $0.1^\circ \sim 60^\circ/s$  Manual Pan Speed and  $0.1^\circ \sim 30^\circ/s$  Manual Tilt Speed.
- 300 presets programmable; preset image freezing capability.
- 8 patrols, up to 32 presets per patrol.
- 4 patterns, with the recording time not less than 10 minutes per pattern.
- Proportional zoom function.
- Park action: auto call up of PTZ movement, after a defined time of inactivity.
- Power-off memory: restore PTZ & Lens status after reboot.

### Network function

- H.265/H.264/MJPEG video compression.
- H.264 encoding with Baseline/Main/High profile.
- ROI(Region of Interest) encoding.
- Built-in Web server.
- Onboard storage, up to 128GB.
- Support up to 8 NAS storage; Edge recording (transmit the videos from SD card to the NAS after network resumed).
- HTTPS encryption and IEEE 802.1X port-based network access control.
- Support trip-streams.
- Multiple network protocols supported: IPv4/Ipv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE.

## Specifications

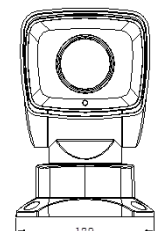
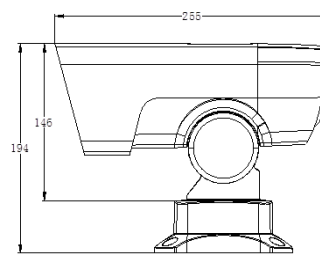
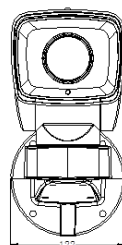
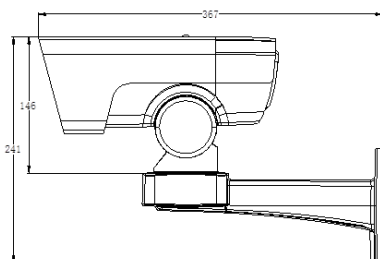
Model	DS-2DY3220IW-D/D4	DS-2DY3320IW-D/D4
<b>Camera</b>		
Image Sensor	1/2.8" Progressive Scan CMOS	
Max. Image Resolution	1920 × 1080	2048 × 1536
Min. Illumination	Color: 0.05 Lux @ (F1.6, AGC ON), B/W: 0.005Lux @ (F1.6, AGC ON), 0 Lux with IR	
Day & Night	IR Cut Filter	
Focus Mode	Auto/ Semiautomatic/ Manual	
Shutter Speed	50HZ: 1/1 ~ 1/30,000s, 60HZ: 1/1~1/30,000s	
S/N Ratio	>52dB	
Digital Zoom	16X	
White Balance	Auto/ Manual/ ATW/ Indoor/ Outdoor/ Daylight lamp/ Sodium lamp	
AGC	Auto/ Manual	
<b>Lens</b>		
Focal Length	4.7-94mm, 20X	
Angle of View	58.3° -3.2° (Wide-Tele)	
Min. Working Distance	10-1500mm(Wide-Tele)	
Aperture Range	F1.6-F3.5	
<b>Image</b>		
Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720), 50fps (1280 × 960, 1280 × 720); 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720), 60fps (1280 × 960, 1280 × 720)	50Hz: 25fps (2048 × 1536, 1920 × 1080, 1280 × 960, 1280 × 720), 50fps (1280 × 960, 1280 × 720); 60Hz: 30fps (2048 × 1536, 1920 × 1080, 1280 × 960, 1280 × 720), 60fps (1280 × 960, 1280 × 720)
Sub Stream	50Hz:25fps(704×576, 640×480, 320 × 288); 60Hz:30fps(704×480, 640×480, 320 × 240)	
Third Stream	50Hz: 1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640×480, 320 × 288; 60Hz: 1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640×480, 320 × 240	
Image Compression	H.265/H.264(Baseline, Main, High Profile)/MJPEG	
Audio compression	G.711ulaw/G.711alaw/G.726/MP2L2	
SVC	Support	
ROI encoding	Support	
Protocols	IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTP,TCP,UDP,IGMP,ICMP, DHCP, PPPoE	
Others	Defog, Privacy Mask, 3D DNR, BLC, HLC, WDR	
<b>Infrared</b>		
IR Distance	Up to 120m	
IR Intensity	Automatically adjusted, depending on the zoom ratio	
Smart IR	Support	
<b>Pan and Tilt</b>		
Movement Range	-D4: Pan: 360° endless, Tilt: -40° ~ 30° ; -D: Tilt: -40° ~ -20° , Pan: 0° ~ 120° & 240° ~360° ; Tilt: -20° ~ 30° , Pan: 360° endless	
Movement Speed	Pan: 0.1°-60°/s, Tilt: 0.1°-30°/s	
Number of Preset	300	
Patrol	8 patrols, up to 32 presets per patrol	
Pattern	4 patterns, with the recording time not less than 10 minutes per pattern	
Park	Support	
Proportional Zoom	Support	
PTZ Position Display	On/ Off	
<b>System Integration</b>		

Menu	English
3D Positioning	Support
Preset Freezing	Support
Scheduled Task	Support
Alarm I/O	1 alarm inputs, 1 alarm output, Support alarm linkage
Alarm Action	Preset / Patrol / Pattern / SD card recording/ Aux output/ E-map on Client
Audio I/O	1/1
Ethernet	1 RJ45 10M/100M Ethernet interface
CVBS Output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC
RS485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive
Onboard Storage	Built-in Micro SD/SDXC card slot, up to 128GB, manual/alarm recording
Number of Simultaneous Live View	20
User/ Host Level	Up to 32 users,3 Levels: Administrator, Operator and User
<b>General</b>	
Power	DC 12V, MAX. 19W
Working Temperature/ Humidity	-30 °C – 70 °C (Outdoor), Humidity 90% or less
Protection Level	IP66 standard, TVS 4,000V lightning protection, surge protection and voltage transient protection
Dimensions(mm)	367×122×241(-D) /255×129×194(-D4)
Weight	3kg

## Order Models

DS-2DY3220IW-D; DS-2DY3220IW-D4; DS-2DY3320IW-D; DS-2DY3320IW-D4

## Dimensions



Distributed by



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