

DS-2DY3220IW-DE/DE4 (B) 2MP Network IR PTZ Camera



Hikvision DS-2DY3220IW-DE/DE4 2MP Network IR PTZ Cameras adopt 1/2.8" progressive scan CMOS chip. With the 20× optical zoom lens, the camera offers more details over expansive areas.

This series of cameras can be widely used for wide ranges of high-definition, such as the rivers, forests, roads, railways, airports, ports, squares, parks, scenic spots, stations and large venues, etc.

Key Features

- 1/2.8" Progressive Scan CMOS
- Up to 1920 × 1080 resolution
- 20× Optical Zoom, 16× Digital Zoom
- Digital WDR, 3D DNR, HLC, Smart IR
- Up to 100 m IR distance
- 12 VDC & PoE (802.3at, class4)
- Support H.265 video compression

Autor Network NP /2 Lamera Min. Illumination Color: 0.05 Lux @(F1.6, AGC ON) BW: Dol Lux @(F1.6, AGC ON) DLx with IR Auto/Manual/ATW (Auto Tracking White Balance)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp AGC Auto/Manual/ATW (Auto Tracking White Balance)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp AGC Auto/Manual Shutter Time 1/1 s to 1/30,000 s Day & Night IR Cut Filter Digital Zoom 16K Privacy Mask 8 programmable privacy masks Focus Mode Auto/Seni-automatic/Manual 30 DNR Yes BLC Yes Digital VDR Yes Regional Exposure Yes Focal Length 4.7 mm to 94 mm, 20× Optical Zoom Speed Approx. 2.7 s (Optical Lens, Wide-Tele) Field of View 61.4* to 2.9* (Wide-Tele) Working Distance 10 mm to 1500mm (Wide-Tele) RB Hartensity Automatically adjusted, depending on the zoom ratio PT Configurable, from 0.5*/s to 25*/s. Preset speed 50*/s Movement Range From 40* to 30* </th <th></th> <th>Specification</th>		Specification		
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Movement Range (Tilt)From -40° to 30°Tilt SpeedConfigurable, from 0.5°/s to 25°/s. Preset speed 25°/sProportional ZoomYesPresets300Patrol Scan8 patrols, up to 32 presets for each patrolPattern Scan4 pattern scans, record time over 10 minutes for each scanPower-off Memory:YesPark ActionPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPTZ Position DisplayON/OFFPreset FreezingYesScheduled TaskPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome AdjustFeaturesIntrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection	(Pan)			
(Tilt)From 40 to 30Tilt SpeedConfigurable, from 0.5°/s to 25°/s. Preset speed 25°/sProportional ZoomYesPresets300Patrol Scan8 patrols, up to 32 presets for each patrolPattern Scan4 pattern scans, record time over 10 minutes for each scanPower-off Memory:YesPark ActionPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPTZ Position DisplayON/OFFPreset FreezingYesScheduled TaskPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome AdjustFeaturesSmart DetectionSmart DetectionIntrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection	•	Configurable, from 0.5°/s to 50°/s. Preset speed 50°/s		
Proportional ZoomYesPresets300Patrol Scan8 patrols, up to 32 presets for each patrolPattern Scan4 pattern scans, record time over 10 minutes for each scanPower-off Memory:YesPark ActionPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPTZ Position DisplayON/OFFPreset FreezingYesScheduled TaskPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome AdjustFeaturesSmart DetectionSmart DetectionIntrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection	(Tilt)	From -40° to 30°		
Presets300Patrol Scan8 patrols, up to 32 presets for each patrolPattern Scan4 pattern scans, record time over 10 minutes for each scanPower-off Memory:YesPark ActionPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPTZ Position DisplayON/OFFPreset FreezingYesScheduled TaskPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome AdjustFeaturesSmart DetectionSmart DetectionIntrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection	· ·	Configurable, from 0.5°/s to 25°/s. Preset speed 25°/s		
Patrol Scan8 patrols, up to 32 presets for each patrolPattern Scan4 pattern scans, record time over 10 minutes for each scanPower-off Memory:YesPark ActionPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPTZ Position DisplayON/OFFPreset FreezingYesScheduled TaskPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome AdjustFeaturesSmart DetectionSmart DetectionIntrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance	Proportional Zoom	Yes		
Pattern Scan4 pattern scans, record time over 10 minutes for each scanPower-off Memory:YesPark ActionPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPTZ Position DisplayON/OFFPreset FreezingYesScheduled TaskPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome AdjustFeaturesIntrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection	Presets	300		
Power-off Memory:YesPark ActionPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPTZ Position DisplayON/OFFPreset FreezingYesScheduled TaskPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome AdjustFeaturesSmart DetectionSmart DetectionIntrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance	Patrol Scan	8 patrols, up to 32 presets for each patrol		
Park ActionPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPTZ Position DisplayON/OFFPreset FreezingYesScheduled TaskPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome AdjustFeaturesSmart DetectionIntrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection	Pattern Scan	4 pattern scans, record time over 10 minutes for each scan		
Park Action Scan PTZ Position Display ON/OFF Preset Freezing Yes Scheduled Task Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust Features Intrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection	Power-off Memory:	Yes		
Preset Freezing Yes Scheduled Task Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust Features Intrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection	Park Action			
Scheduled TaskPreset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome AdjustFeaturesSmart DetectionIntrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection	PTZ Position Display	ON/OFF		
Scheduled Task Scan/Dome Reboot/Dome Adjust Features Intrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection Smart Detection Intrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance	Preset Freezing	Yes		
Smart DetectionIntrusion Detection, Line Crossing Detection, Region Exiting Detection, Region Entrance Detection	Scheduled Task			
Detection	Features			
ROI encoding Main stream, sub-stream and third stream respectively support two fixed areas.	Smart Detection			
	ROI encoding	Main stream, sub-stream and third stream respectively support two fixed areas.		

Network			
Max. Resolution	1920 × 1080		
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)		
Sub-Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)		
Third 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	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.264 with Baseline/Main/High Profile		
Audio compression	G.711alaw/G.711ulaw/G.722.1/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		
ΑΡΙ	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK		
Simultaneous Live View	Up to 20 channels		
User/Host	Up to 32 users 3 levels: Administrator, Operator and User		
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering		
System Integration			
Alarm Input	1-ch alarm input		
Alarm Output	1-ch alarm output		
Alarm Linkage	Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.		
Audio Input	1-ch audio input		
Audio Output	1-ch audio output		
Network Interface	1 RJ45 10 M/100 M Ethernet Interface; PoE (802.3at, class4)		
Storage	Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 128 GB; NAS (NFS, SMB/ CIFS), ANR		
Client	iVMS-4200, iVMS-4500, iVMS-5200		
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	12 VDC, 1.6 A and PoE (802.3at), 42.5 to 57 VDC, 0.6 A, Class4 Max. 19 W, including max. 9.2W for IR		
Working Environment	Working Temperature: Outdoor: -30°C to 65°C (-22°F to 149°F) Working Humidity: ≤ 95%		
Protection Level	IP66 Standard; 6000V Lightning Protection, Surge Protection and Voltage Transient Protection		
Dimensions(mm)	-DE: 367 mm × 122 mm × 242 mm (14.45" × 4.80" × 9.53") -DE4: 255 mm × 129 mm × 195 mm (10.03" × 5.08" × 7.68")		
Weight	Approx. 3 kg (6.61 lb)		

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.

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	1061.8 m (3483.7 ft)	421.4 m (1382.4 ft)	212.4 m (696.7 ft)	106.2 m (348.4 ft)

It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

Order Model

DS-2DY3220IW-DE (B) DS-2DY3220IW-DE4 (B)

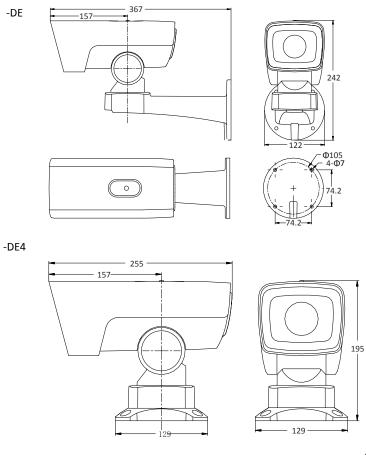
Typical Application

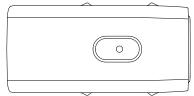
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

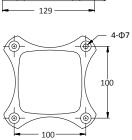
This model has NO SPECIFIC PROTECTION.

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.

Dimensions







Unit: mm



Accessory Included:



ASW0081-1220002W Power adapter Optional:



DS-1280ZJ-M (SPTZ) Junction Box

DS-1281ZJ-M (SPTZ) Inclined Base Mounting Bracket



DS-1275ZJ (SPTZ) Vertical Pole Mounting Bracket



LAS60-57CN-RJ45 Hi-PoE midspan

Distributed by



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

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

Hikvision Canada T +1-866-200-6690 sales.canada@hikvision.com

Hikvision Thailand T +662-275-9949 sales.thailand@hikvision.com Hikvision Europe T +31-23-5542770 sales.eu@hikvision.com

sales.eu@hikvision.com Hikvision Italy T +39-0438-6902

info.it@hikvision.com HIkvIsion Brazil T +55 11 3318-0050 Latam.support@hikvision.com

Hikvision Turkey T +90 (216)521 7070- 7074 sales.tr@hikvision.com

Hikvision Malaysia T +601-7652-2413 sales.my@hikvision.com Hikvision UK & Ireland T +01628-902140 sales.uk@hikvision.com

Hikvision South Africa Tel: +27 (10) 0351172 sale.africa@hikvision.com

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

Hikvision Kazakhstan T +7-727-9730667 nikia.panfilov@hikvision.ru

Hikvision Vietnam T +84-974270888 sales.vt@hikvision.com Hikvision UAE T +971-4-4432090 salesme@hikvision.com

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

Hikvision Spain T +34-91-737-16-55

info.es@hikvision.com Hikvision Tashkent T +99-87-1238-9438 uzb@hikvision.ru

Hikvision Hong Kong T +852-2151-1761 info.hk@hikvision.com Hikvision Russia T +7-495-669-67-99 saleru@hikvision.com

Hikvision Korea T +82-[0]31-731-8817 sales.korea@hikvision.com

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

Hikvision Indonesia T +62-21-2933759 Sales.Indonesia@hikvision.com

Hikvision Colombia sales.colombia@hikvision.com

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05060020220318