3-inch 2MP 20X Powered by DarkFighter IR Network Positioning System

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Main Features

- High quality imaging with 2 MP resolution,
- Clear imaging against strong back lighting due to 120 dB WDR technology,
- 20x optical zoom provides close up views over expansive areas,
- Good night-time performance with up to 50 m IR,
- Water and dust resistant (IP66),

Available Models

DS-2DY3220IW-DE(S6) | DS-2DY3220IW-DE(S6)(B)

Specifications

Camera

- **Image Sensor** 1/2.8" progressive scan CMOS

- **Max. Resolution** 1920 × 1080

- **Min. Illumination** Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR

- **Shutter Speed** 1/1 s to 1/30,000 s

- **Day & Night** IR cut filter

- **Zoom** 20x optical, 16x digital

Lens

- **Focal Length** 4.7 mm to 94 mm

- **FOV** Horizontal FOV 54.9° to 2.7°, vertical FOV 31.5° to 1.5°, diagonal FOV 62.3° to 3.1°

- **Focus** Auto, semi-auto, manual

- **Aperture** Max. F1.6

- **Zoom Speed** Approx. 3.2 s (Optical Lens, Wide-Tele)

Illuminator

- **Supplement Light Type** IR

- **Supplement Light Range** IR Distance: up to 50 m

- **Smart Supplement Light** Yes

PTZ

- **Movement Range (Pan)** 360° endless

- **Movement Range (Tilt)** From -40° to 30°

- **Pan Speed** Configurable, from 0.5/s to 60°/s. Preset speed: 60°/s

- **Tilt Speed** Configurable, from 0.5°/s to 50°/s. Preset speed: 50°/s

- **Proportional Pan** Yes

- **Presets** 300

- **Preset Freezing** Yes

- **Patrol Scan** 8 patrols, up to 32 presets for each patrol

- **Pattern Scan** 4 pattern scans, record time over 10 minutes for each scan

- **Park Action** Preset/Pattern Scan/Patrol Scan

- **PTZ Status Display** Yes

- **Scheduled Task** Preset/Pattern Scan/Patrol Scan/Dome Reboot/Dome Adjust/Aux Output

- **Power-Off Memory** Yes

Video

- **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)

- **Video Compression**

  - ✓ Main Stream: H.265+/H.265/H.264+/H.264

  - ✓ Sub-Stream: H.265/H.264/MJPEG

- **Video Bit Rate** 32 Kbps to 16 Mbps

- **H.264 Type** Baseline Profile/Main Profile/High Profile

- **H.265 Type** Main profile

- **Scalable Video Coding (SVC)** H.264 and H.265 encoding

- **Region Of Interest (ROI)** 8 fixed regions for each stream

Audio

- **Audio Compression** G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM

- **Audio Bit Rate** 64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 160 Kbps(MP2L2)

Network

- **Protocols** IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, Bonjour

- **Simultaneous Live View** Up to 20 channels

- **API** Open Network Video Interface (Version 18.12, Profile S, Profile G, Profile T), ISAPI, SDK, ISUP

- **User/Host** Up to 32 users; 3 levels: Administrator, Operator and User

- **Security** Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, host authentication (MAC address)

- **Network Storage** NAS (NFS, SMB/CIFS), ANR

- **Client** iVMS-4200, HikCentral Pro, Hik-Connect

- **Web Browser** IE10-11, Chrome 57.0+, Firefox 52.0+, Safari 12+

Image

- **Image Settings** Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser

- **Wide Dynamic Range (WDR)** 120 dB

- **Defog** Digital defog

- **Image Enhancement** BLC, HLC, 3D DNR

- **Privacy Mask** 24 programmable polygon privacy masks, mask color configurable

- **Regional Focus** Yes

- **Regional Exposure** Yes

Interface

- **Ethernet Interface** 1 RJ45 10 M/100 M Ethernet Interface; PoE (802.3at, class4)

- **On-Board Storage** Built-in memory card slot, support MicroSD/SDHC/SDXC, up to 256 GB

- **Audio** 1 input, 1 output

- **Alarm** 1 input, 1 output

Event

- **Basic Event** Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), alarm input and output

- **Smart Event** Face detection, line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, audio exception detection

- **Linkage** Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, audible warning, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.

General

- **Power**

  - ✓ 12 VDC, 2 A and PoE (802.3at), 42.5 to 57 VDC, 0.6 A, Class4

  - ✓ Max. 19 W, including max. 9.2 W for IR

- **Dimension** 367 mm × 122 mm × 242 mm (14.45" × 4.80" × 9.53")

- **Weight** Approx. 3 kg (6.61 lb)

- **Operating Condition** -30 °C to 65 °C (-22 °F to 149 °F). Humidity 90% or less (non-condensing)

- **Language**

  - ✓ 33 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), Ukrainian

Approval

- **Protection** IP66 Standard; 6000V Lightning Protection, Surge Protection and Voltage Transient

  Protection