# HIKVISION

## DS-2DY5223IW-AE
## 2MP 23X Ultra-low illumination IR Positioning System Lite

**DARKFIGHTER**

Hikvision darkfighter series DS-2DY5223IW-AE Network IR Positioning System Lite is able to capture high quality images in dim light environment. Embedded with 1/1.9'' progressive scan CMOS chip makes true WDR and 2MP real-time resolution possible. With the 23X optical zoom Day/Night lens, the positioning system offers more details over expansive areas.

Hikvision darkfighter series DS-2DY5223IW-AE Network IR Positioning System Lite also features Smart Defog and EIS (Electronic Image Stabilization), which can further supported to improve image quality in challenging conditions.

## Key Features

- 2MP, 1920 x 1080
- 23X optical zoom, 16X digital zoom
- Ultra-low illumination (0.002Lux/F1.5(color), 0.0002Lux/F1.5(black), 0 Lux with IR)
- Low bit rate, true WDR, Defog, Smart IR
- 3D intelligent positioning
- Power-off memory, proportional zoom
- Analog/Network dual output
- Support Wiper
- Up to 150m IR distance
- Support Hi-PoE

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## Function Description

### Basic function:
- High performance CMOS, up to 1920x1080 resolution
- ±0.1° Preset Accuracy
- ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK
- 3D intelligent positioning function
- 3D DNR
- IP66 standard
- 7 alarm inputs and 2 alarm outputs
- Support Hi-PoE

### Smart function:
- Smart image processing: support defog, HLC/BLC
- Smart codec: low bit rate, ROI
- Smart detection: support Face detection, Intrusion detection, Line crossing detection, Audio exception detection, Region entrance detection, Region exiting detection

### Camera function:
- Auto iris, auto focus, auto white balance, backlight compensation and auto day & night switch
- Min. Illumination: Color：0.002Lux @ (F1.5, AGC ON), B/W：0.0002Lux @(F1.5, AGC ON)
- Support 24 privacy masks

### PTZ function:
- 360° endless pan range and -90°~ 90° tilt range
- 0.1°~ 200°/s Manual Pan Speed and 0.1°~ 50°/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.264/MJPEG video compression

- H.264 encoding with Baseline/Main/High profile
- ROI(Region of Interest) encoding(support 12 areas with adjustable levels)
- Built-in Web server
- Onboard storage, up to 256 GB
- 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
- 1 audio input and 1 audio output

### 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) | 1434.7 m (4706.9 ft) | 569.3 m (21867.8 ft) | 286.9 m (941.4 ft) | 143.5 m (470.7 ft) |

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| Model | DS-2DY5223IW-AE |
|---|---|
| **Camera Module** | |
| Image Sensor | 1/1.9'' Progressive Scan CMOS |
| Max. Image Resolution | 1920 X 1080 |
| Min. Illumination | Color：0.002Lux @ (F1.5, AGC ON)<br>B/W：0.0002Lux @(F1.5, AGC ON) |
| Day & Night | ICR |
| Focus Mode | Auto / Semiautomatic / Manual |
| Shutter Time | 1/1-1/10,000s |
| S / N Ratio | >52dB |
| Digital Zoom | 16X |
| White Balance | Auto / Manual /ATW/Indoor/Outdoor/Daylight lamp/Sodium lamp |
| AGC | Auto / Manual |
| **Lens** | |
| Focal Length | 5.9-135.7mm, 23X |
| Angle of View | 59.8° -3.0° (Wide-Tele) |
| Min. Working Distance | 10-1500mm(Wide-Tele) |
| Aperture Range | F1.5-F3.4 |
| **Image** | |
| Main Stream | 50Hz:25fps(1920×1080), 25fps(1280×720)<br>60Hz:30fps(1920×1080), 30fps(1280×720) |
| Sub Stream | 50Hz:25fps(704×576), 25fps(352×288), 25fps(176×144)<br>60Hz:30fps(704×480), 30fps(352×240), 30fps(176×120) |
| Image Compression | H.265+/H.265/H.264+/H.264/MJPEG |
| Audio Compression | G.711ulaw/G.711alaw/G.726/MP2L2/G.722/PCM |
| SVC | Support |
| Protocols | IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTP,TCP,UDP,IGMP,ICMP,DHCP,PPPoE |
| API | ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK |
| Others | Defog, EIS, Privacy Mask, 3D DNR, BLC, true WDR |
| **Smart Features** | |
| Smart detection | Face detection, Intrusion detection, Line crossing detection, Audio exception detection, Region entrancedetection, Region exiting detection |
| ROI encoding | Support 12 areas with adjustable levels |
| **Infrared** | |
| IR Distance | Up to 150m |
| IR Intensity | Automatically adjusted, depending on the zoom ratio |
| **Pan and Tilt** | |
| Movement Range | Pan: 360° endless, Tilt: +90°～-90° |
| Movement Speed | Pan: 0.1°-200°/s, Tilt: 0.1°-50°/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 |

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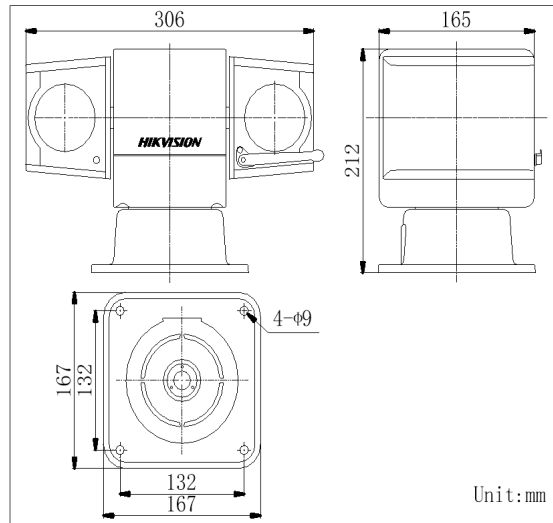| | |
|---|---|
| Proportional Zoom | Support |
| PTZ Position Display | On / Off |
| Simultaneous Live View | Up to 20 users |
| ***System Integration*** | |
| Menu | English |
| 3D Positioning | Support |
| Preset Freezing | Support |
| Scheduled Task | Support |
| Alarm I/O | 7 alarm inputs, 2 alarm outputs |
| 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-AI2daptive |
| Network Storage | Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 256 GB; NAS (NFS, SMB/ CIFS), ANR |
| Number of Simultaneous Live View | Up to 20 |
| User/Host Level | Up to 32 users,3 Levels: Administrator, Operator and User |
| Web Browser | IE 8 to 11, Chrome 31.0+, Firefox 30.0+, Edge 16.16299+ |
| ***General*** | |
| Language (Web Browser Access ) | 32 languages.<br>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 | Hi-PoE & 24 VAC, Max. 45W, including max. 17 W for IR and max. 6 W for heater. |
| Working Temperature/Humidity | -40°C ~ 65°C, humidity 95% or less |
| Protection Level | IP66 standard, TVS 6,000V lightning protection, surge protection and voltage transient protection |
| Dimensions(mm) | 306×167×212 |
| Weight(approx.) | 7.8kg |

*\*You are recommended to purchase memory card together with the product if needed. After ordering, the memory card will be installed to product during manufacturing.*

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## Dimensions



306 165 212 167 132 132 167 4−φ9 Unit:mm

## Accessory

**Optional**



TEAC-66-243000V (EU)
MKAC-66-243000U (USA)
TEAC-66-243000VB (UK)
Power Adapter

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