7-inch 2 MP 36X DarkFighter IR Network Positioning System

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Main Features

- 1/1.8" progressive scan CMOS,

- Up to 1920 × 1080 @ 30 fps resolution,

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

- 36 × optical zoom, 16 × digital zoom,

- 120 dB WDR, HLC, BLC, 3D DNR, Defog, Regional Exposure, Regional Focus,

- Up to 150 m IR distance,

- Support H.265+/H.265 video compression,

Camera

- **Image Sensor** 1/1.8" 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** 1/1s~1/30000 s

- **Day & Night** Day, Night, Auto, Schedule

- **Zoom** 36 × optical, 16 × digital

- **Slow Shutter** Yes

Lens

- **Focal Length** 4.6~165.6 mm，36 × optical

- **FOV** Horizontal field of view: 55° to 2.0° (Wide-Tele)

- **Focus** Auto/Semi-automatic/Manual

- **Aperture** F1.6

- **Zoom Speed** approx. 4.8 s

Illuminator

- **Supplement Light Type** IR

- **Supplement Light Range** 150 m

- **Smart Supplement Light** yes

PTZ

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

- **Movement Range (Tilt)** From +40° to -90° (auto flip)

- **Pan Speed**

  - ✓ Configurable, from 0.1°/s to 100°/s,

  - ✓ Preset speed: 100°/s

- **Tilt Speed**

  - ✓ Configurable, from 0.1°/s to 50°/s

  - ✓ Preset Speed: 100°/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/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan

- **3D Positioning** yes

- **PTZ Status Display** yes

- **Scheduled Task** Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux Output

🔸 **Power-Off Memory** yes

Video

🔸 **Main Stream**

  ✓ **50 Hz**: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720)

  ✓ **60 Hz**: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)

🔸 **Sub-Stream**

  ✓ **50 Hz**: 25 fps (704 × 576, 640 × 480, 352 × 288)

  ✓ **60 Hz**: 30 fps (704 × 480, 640 × 480, 352 × 240)

🔸 **Third Stream**

  ✓ **50 Hz**: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)

  ✓ **60 Hz**: 30 fps (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

🔸 **Video Bit Rate** 32 Kbps to 16384 Kbps

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

🔸 **H.265 Type** Main Profile

🔸 **Scalable Video Coding (SVC)** Support

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

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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)/32-192 Kbps (MP2L2)

- **Audio Sampling Rate** 8 kHz/16 kHz/32 kHz/48 kHz

- **Environment Noise Filtering** yes

Network

- **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

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

- **API** Open Network Video Interface (Version 19.12, Profile S, Profile G, Profile T), ISAPI, SDK, ISUP

- **User/Host** Up to 32 users, 3 user 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, TLS 1.3, host authentication (MAC address)

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

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

- **Web Browser** IE11, Chrome 57+, Firefox 52+, Safari 11+

Image

- **Image Parameters Switch** yes

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

- **Day/Night Switch** auto

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

- **SNR** ≥ 52dB

- **Defog** Digital Defog

- **Image Enhancement** HLC/BLC/3D DNR/Defog/EIS/Regional Exposure/Regional Focus

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

Interface

- **Ethernet Interface** 1 RJ45 10 M/100 M Ethernet

- **On-Board Storage** support microSD / microSDHC / microSDXC cards, up to 256 GB

- **Audio** 1-ch audio input and 1-ch audio output

- **Alarm** 7-ch alarm input and 2-ch alarm output

- **RS-485** 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)

Event

- **Basic Event** Motion detection, video tampering alarm, exception, alarm input and output

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

- **Linkage** Manual tracking, Event tracking

- **Smart Tracking** Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, and PTZ actions (such as preset, patrol scan, pattern scan)

Deep Learning Function

- **Face Capture** Support detecting up to 10 faces at the same time. Support detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face.

General

- **Power** 24 VAC (Max. 55 W)

- **Dimension** Φ181 mm × 396 mm × 377.5 mm (Φ 7.13" × 15.59" × 14.86")

- **Weight** 7.6 kg (16.76 lb.)

- **Operating Condition** Temperature: Outdoor: -40°C to 70°C (-40°F to 158°F),Humidity: ≤ 90%

- **General Function** Anti-flicker, heartbeat, mirror, flash log, password reset via e-mail, pixel counter, password

  protection, one-key reset, three streams

Approval

- **Protection** IP66, TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection.