# MAIN FEATURES

- 4K Ultra HD Resolution
- Max. 3840 x 2160 @ 20FPS
- 2.8mm Fixed Lens
- Up to 30m IR range
- 3-Axis Adjustment
- Field of View: 102°
- DC12V & PoE (802.3AF)
- On-Board Storage, Up to 128GB
- IP67 Weatherproof Rating
- IK10 Vandal-Proof Rating

## Camera
- Image Sensor: L/2.5" Progressive Scan CMOS
- Min. Illumination: Color: 0.01 lux @ F1.2, AGC ON, 0.028 lux @ F12.0, AGC OFF, 0 lux with IR
- Shutter Speed: 1/25 to 1/100,000 s
- Slow Shutter: Yes
- Auto-Iris: No
- Day & Night: IR Cut Filter
- Digital Noise Reduction: 3D DNR
- WDR: 130dB
- 3-Axis Adjustment: Pan: -15° to 15°, Tilt: 0° to 75°, rotate: 0° to 155°

## Lens
- Focal length: 2.8/4/6/8 mm
- Aperture: F2.0
- Focus: Auto
- FOV: 2.8 mm, horizontal FOV: 102°, vertical FOV: 53°, diagonal FOV: 124°
  4 mm, horizontal FOV: 78°, vertical FOV: 62°, diagonal FOV: 95°
  6 mm, horizontal FOV: 55°, vertical FOV: 36°, diagonal FOV: 59°
  8 mm, horizontal FOV: 40°, vertical FOV: 28°, diagonal FOV: 55°
- Lens Mount: M12

## IR
- IR Range: Up to 30 m
- Wavelength: 850nm

## Compression Standard
- Video Compression: Main stream: H.265/H.264 Sub-stream: H.265/H.264/MJPEG
- H.264: Main Profile/High Profile
- H.265: Main stream supports
- H.265: Profile Main Profile
- H.265: Main stream supports
- Video Bit Rate: 32 Kbps to 16 Mbps
- Audio Compression (-S): G.711/G.722/1.2 G.726/MJPEG/PCM
- Audio Bit Rate (-S): 64 Kbps (G.711)/10 Kbps (G.722)/16 Kbps (G.726)/128 Kbps (MJPEG)

## Additional Features
- Behavior Analysis: Line crossing detection, intrusion detection
- Face Detection: Yes
- Region of Interest: Support 1 fixed region for main stream and sub-stream

## Image
- Max. Resolution: 3840 x 2160
- Main Stream: 50Hz: 12.5 fps (3840 x 2160), 25fps (3072 x 1728), 25 fps (2560 x 1440), 30fps (2560 x 1440), 25fps (2048 x 1440), 30fps (2048 x 1440), 50Hz: 12.5 fps (2048 x 1536), 20fps (1920 x 1080), 20fps (1920 x 1080), 25fps (2048 x 1536), 30fps (2048 x 1536), 30fps (2048 x 1536), 50Hz: 12.5 fps (1280 x 720), 20fps (1280 x 720), 25fps (1280 x 720), 30fps (1280 x 720), 50Hz: 12.5 fps (720 x 240), 20fps (720 x 240)
- Sub-Stream: 50Hz: 12.5 fps (440 x 480), 60fps (440 x 360), 60fps (440 x 240)
- Sub-Stream: 60fps (440 x 480), 60fps (440 x 360), 60fps (440 x 240)
- Sub-Stream: 50Hz: 25fps (1280 x 720), 20fps (1280 x 720), 25fps (1280 x 720), 30fps (1280 x 720), 50Hz: 25fps (720 x 240), 20fps (720 x 240)
- Image Enhancement: BLC/DZI DNR
- Image Settings: Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software via web browser
- Target Cropping: No
- Day/Night Switch: Day/Night/Auto/Schedule (Triggered by alarm input 1-5)

## Network
- Network Storage: Support Micro SD/SDHC/SDXC card (128GB), local storage and NAS (NFS, SMB/CIFS), ANR
- Alarm Trigger: Motion detection, video tampering, network disconnected, IP address conflict, illegal login, H264, H265 error
- Protocols: TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DING, RTP, RTSP, RTCP, PPPOE, NTP, UPnP, SMTP, SNMP, SADP, 802.1X, QSL, PRE, BACnet
- General Function: One-key reset, anti-flicker, three streams, heartbeats, mirror, password protection, privacy mask, watermark, IP address filter
- API: ONVIF&PROFIle L, PROFILE G, ISAPI
- Simultaneous Live View: Up to 6 channels
- User/Host: Up to 32 users
- Levels: Administrator, Operator and User
- Client: Browsers 8.0+, Chrome 31.0-64, Firefox 30.0-64, Safari 8.0+
- Web Browser: IIS6, Chrome 31.0-64, Firefox 30.0-64, Safari 8.0+

## Interface
- Audio (I): 1 input (Line in), 1 output (Line out), mono sound
- Alarm (O): 1 input, 1 output
- Video Output: No
- Communication Interface: 1 RJ45 10M/100M self-adaptive Ethernet port
- On-board Storage: Built-in microSD/SDHC/SDXC slot, up to 128 GB
- SVC: H.264 and H.265 encoding support
- Reset Button: Yes
- Audio: Yes
- Audio Sampling Rate: 8 kHz/16 kHz/52 kHz/64/3 kHz/48 kHz

## General
- Operating Conditions: -30°C to +60°C (22°F to +140°F), humidity 95% or less (non-condensing)
- Power Supply: 12 VDC ± 20%, 0.5 mm coaxial power plug Rechargeable/Class IIi
- Power Consumption: 0.5W (0.6W at 25°C, 7.5W)
- Protection Level: IP66, IK10
- Material: Camera body: metal, bubble: plastic
- Dimensions: Camera: 811 x 111 mm (2.6" x 4.4"), package: 134 x 134 x 111 mm (5.3" x 5.3" x 4.3")
- Weight: Camera: approx. 550 g (1.2 lb)

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