Specifications of the camera system

- **Camera**

- Image Sensor1/2.4" Progressive Scan CMOS
- Max. Resolution3200 × 1800
- Min. IlluminationColor: 0.005 Lux @ (F1.6, AGC ON),B/W: 0 Lux with IR
- Shutter Time1/3 s to 1/100,000 s
- Day & NightIR cut filter
- Angle AdjustmentPan: 0° to 360°,tilt: 0° to 90°,rotate: 0° to 360°

- **Lens**

- Lens TypeFixed focal lens, 2.8 and 4 mm optional
- Focal Length & FOV

  2.8 mm, horizontal FOV 105°, vertical FOV 55°, diagonal FOV 127°

  4 mm, horizontal FOV 78°, vertical FOV 38°, diagonal FOV 96°
- Lens MountM12
- Iris TypeFixed
- ApertureF1.6

- **Pixel Density**

- DORI

  2.8 mm, D: 76 m, O: 30 m, R: 15 m, I: 7 m

  4 mm, D: 115 m, O: 45 m, R: 23 m, I: 11 m

- **Illuminator**

- Supplement Light TypeIR,White Light
- Supplement Light RangeUp to 30 m
- Smart Supplement LightYes

- IR Wavelength850 nm

- **Video**

- Main Stream

  50 Hz:

  20 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)

  60 Hz:

  20 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)

- Sub-Stream

  50 Hz: 20 fps (1280 × 720, 640 × 480, 640 × 360)

  60 Hz: 20 fps (1280 × 720, 640 × 480, 640 × 360)

- Video Compression

  Main stream: H.265+/H.265/H.264+/H.264,

  Sub-stream: H.265/H.264/MJPEG

- Video Bit Rate32 Kbps to 16 Mbps

- H.264 TypeBaseline Profile,Main Profile,High Profile

- H.265 TypeMain Profile

- Bit Rate ControlCBR,VBR

- Region of Interest (ROI)1 fixed region for main stream

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

- **Audio**

- Audio TypeMono sound

- Audio Sampling Rate8 kHz/16 kHz

- Environment Noise FilteringYes

- Audio CompressionG.711/G.722.1/G.726/MP2L2/PCM/AAC-LC

- Audio Bit Rate64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)

- **Network**

- SecurityPassword protection, complicated password, watermark, basic and digest authentication for HTTP, WSSE and digest authentication for Open Network Video Interface, security audit log, host authentication (MAC address)
- Simultaneous Live ViewUp to 6 channels
- APIOpen Network Video Interface (Profile S, Profile T, Profile G),ISAPI,SDK
- ProtocolsTCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, NTP, IGMP, IPv6, UDP, QoS, FTP, SMTP, UPnP
- User/Host

  Up to 32 users

  3 user levels: administrator, operator, and user
- ClientiVMS-4200,Hik-Connect
- Web Browser

  Plug-in required live view: IE 10, IE 11,

  Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+

- **Image**

- Wide Dynamic Range (WDR)120 dB
- SNR≥ 52 dB
- Day/Night SwitchDay,Night,Auto,Schedule
- Image EnhancementBLC,HLC,3D DNR

- Image SettingsRotate mode,saturation,brightness,contrast,sharpness,gain,white balance,adjustable by client software or web browser
- Privacy Mask4 programmable polygon privacy masks

- **Interface**

- Ethernet Interface1 RJ45 10 M/100 M self-adaptive Ethernet port
- On-Board Storage

  Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
- Built-in MicrophoneYes,1 built-in microphone
- Built-in SpeakerMax. power consumption: 1.5 W, max. sound pressure level: 10 cm: 95 dB.
- Reset KeyYes

- **Event**

- Basic EventMotion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception
- LinkageUpload to FTP/NAS/memory card,notify surveillance center,send email,trigger recording,trigger capture,audible warning,flashing light

- **General**

- Power

  12 VDC ± 25%, 0.66 A, max. 8 W,Ø5.5 mm coaxial power plug,reverse polarity protection,

  PoE: IEEE 802.3af, Class 3, max. 9.5 W

- MaterialMetal & Plastic
- Dimension179 mm × 67.4 mm × 69.1 mm (7.1" × 2.7" × 2.7")
- Package Dimension216 mm × 121 mm × 118 mm (8.5" × 4.8" × 4.6")
- Approx. 285 g (0.6 lb.)
- With Package WeightApprox. 490 g (1.1 lb.)
- Storage Conditions-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
- Startup and Operating Conditions-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
- LanguageEnglish, Ukrainian
- General FunctionHeartbeat,anti-banding,mirror,password protection,password reset via email
- Flashing LightYes
- **Approval**
- EMC

  CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011 +A1: 2014,

  RCM: AS/NZS CISPR 32: 2015,

  IC: ICES-003: Issue 7

- Safety

  UL: UL 62368-1,

  CB: IEC 62368-1: 2014+A11,

  CE-LVD: EN 62368-1: 2014/A11: 2017,

  BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005

- Environment

  CE-RoHS: 2011/65/EU,

  WEEE: 2012/19/EU,

  Reach: Regulation (EC) No 1907/2006

- ProtectionIP67: IEC 60529-2013