



Network

Dome

# TNV-C8034RM

T AI 5MP IR Mobile Camera



## Key Features

- Max. 5MP resolution
- 6.0 mm fixed lens
- Color: 0.03Lux(F1.65, 1/30sec), BW: 0.003Lux(F1.65, 1/30sec, 30IRE)
- Maximum 30fps@5MP (H.265/H.264)
- IR viewable length 30m (98.42ft)
- Hard-coated dome bubble,
- EIS, Shock detection, Heater, Built-in Mic
- H.265, H.264, MJPEG, WiseStreamIII (Using AI engine)
- Analytics events based on AI engine (NPU)
- EN50155 compliance
- IP66, IK10
- PoE: Max 7.2W, M12 connector

## TNV-C8034RM

T AI 5MP IR Mobile Camera



### Specifications

| Video                         |                       |                                                                                                                    |
|-------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| Imaging Device                | Size                  | 1/2.8"                                                                                                             |
|                               | Type                  | CMOS                                                                                                               |
| Resolution                    |                       | 2592x1944, 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate                | H.265/H.264           | 30fps/25fps(60Hz/50Hz)                                                                                             |
|                               | MJPEG                 | 30fps(@5MP Max. 5fps)                                                                                              |
| Min. Illumination (Lux)       | Color(1/30sec, 30IRE) | 0.03                                                                                                               |
|                               | BW(1/30sec, 30IRE)    | 0.003                                                                                                              |
| Video Out                     |                       | USB: Micro USB Type B                                                                                              |
| Lens                          |                       |                                                                                                                    |
| Focal Length (mm)             |                       | 6.0                                                                                                                |
| Max Aperture Ratio (F number) | Wide                  | 1.65                                                                                                               |
| Angular Field of View         | Horizontal            | 50°                                                                                                                |
|                               | Vertical              | 37°                                                                                                                |
|                               | Diagonal              | 64°                                                                                                                |
| Min. Object Distance          |                       | 2.0m(6.56ft)                                                                                                       |
| Focus Control                 |                       | Fixed                                                                                                              |
| Lens Type                     |                       | Fixed iris                                                                                                         |
| Mount Type                    |                       | M12                                                                                                                |
| Pan / Tilt / Rotate           |                       |                                                                                                                    |
| Pan / Tilt / Rotate Range     | Pan                   | ±5°                                                                                                                |
|                               | Tilt                  | 0°~67°                                                                                                             |
|                               | Rotate                | ±90°                                                                                                               |
| Operational                   |                       |                                                                                                                    |
| Day & Night                   |                       | Auto(ICR)                                                                                                          |
| Backlight Compensation        |                       | BLC, WDR, SSDR, ClearHDR                                                                                           |
| Wide Dynamic Range (dB)       |                       | 120                                                                                                                |

## Operational

|                                          |                |                                                                                                                                                                                                                               |
|------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Digital Noise Reduction                  |                | WiseNR II (Based on AI engine), SSNR V                                                                                                                                                                                        |
| Motion Detection                         | Quantity       | 8ea                                                                                                                                                                                                                           |
|                                          | Shape          | 8point Polygonal zones                                                                                                                                                                                                        |
| Privacy Masking                          | Quantity       | 32ea                                                                                                                                                                                                                          |
|                                          | Shape          | 4point Quadrangle zones                                                                                                                                                                                                       |
|                                          | Color / Option | Gray, Green, Red, Blue, Black, White                                                                                                                                                                                          |
| Gain Control                             |                | Low, Middle, High                                                                                                                                                                                                             |
| White Balance                            |                | ATW, AWC, Manual, Indoor, Outdoor                                                                                                                                                                                             |
| LDC                                      |                | Support                                                                                                                                                                                                                       |
| Electronic Shutter                       | Mode           | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)                                                                                                                                                    |
|                                          | Speed Range    | 1/5~1/25,000sec                                                                                                                                                                                                               |
| Video Rotation                           |                | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                                                          |
| Alarm Triggers                           |                | Analytics, Network disconnect, MQTT subscription                                                                                                                                                                              |
| Alarm Events When Alarm Trigger Occurred |                | File upload(image): e-mail/FTP/SFTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback,<br>MQTT: publication |
| Audio In                                 |                | Selectable(mic in/line in), Built-in mic                                                                                                                                                                                      |
| Audio Out                                |                | Line out                                                                                                                                                                                                                      |
| Light Type                               |                | IR LED                                                                                                                                                                                                                        |
| Light Viewable Length                    | IR             | 30m(98.42ft)                                                                                                                                                                                                                  |
| IR Wavelength                            |                | 850nm                                                                                                                                                                                                                         |

## Analytics

|                        |                    |                                                                                                                    |
|------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Classified Object Type |                    | Person, Vehicle                                                                                                    |
| Attributes             | Person             | Upper/Lower clothes color                                                                                          |
|                        | Vehicle            | Type(car, bus, truck, motorcycle, bicycle), Color                                                                  |
| Thumbnail              |                    | BestShot                                                                                                           |
| Analytics Events       | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection |
|                        | Normal             | Defocus detection, Tampering, Shock detection, Virtual area(Appear/Disappear)                                      |
| Business Intelligence  | Based on AI Engine | People counting, Queue management, Heatmap, Vehicle counting                                                       |

## Network

|                   |  |                                                                                                                               |
|-------------------|--|-------------------------------------------------------------------------------------------------------------------------------|
| Ethernet          |  | M12                                                                                                                           |
| Video Compression |  | H.265/H.264: Main/High, MJPEG                                                                                                 |
| Audio Compression |  | G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz,<br>G.726: 16kbps,24kbps,32kbps,40kbps,<br>AAC-LC: 48kbps at 16kHz |

## Network

|                                   |                    |                                                                                                                                                                                                                             |
|-----------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smart Codec                       |                    | Manual, WiseStreamIII                                                                                                                                                                                                       |
| Bitrate Control                   |                    | H.265/H.264: CBR or VBR, MJPEG: VBR                                                                                                                                                                                         |
| Streaming                         | Unicast            | Up to 20 users                                                                                                                                                                                                              |
|                                   | Multicast          | Support                                                                                                                                                                                                                     |
|                                   | Multiple Streaming | Up to 5 profiles                                                                                                                                                                                                            |
| Protocol                          |                    | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT |
| Application Programming Interface | ONVIF              | S, G, T, M                                                                                                                                                                                                                  |
|                                   | Others             | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                                                               |
| Direct Cloud Connection           |                    | Support                                                                                                                                                                                                                     |

## Security

|                        |  |                                                                         |
|------------------------|--|-------------------------------------------------------------------------|
| OS / Firmware Protect  |  | Encrypted firmware, Secure boot, Signed firmware                        |
| User authentication    |  | Digest authentication, Prevent brute-force attack                       |
| Network authentication |  | IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)                      |
| Secure Communication   |  | HTTPS, WSS(WebSocket Secure)                                            |
| Access Control         |  | IP-based access control                                                 |
| Data Protect           |  | Encryption credentials, Encrypt compress for live recording file export |
| Audit                  |  | Access / System / Event Log management                                  |
| Device ID              |  | Device certificate(Hanwha Vision Root CA)                               |
| Secure Storage         |  | SDcard partition encrypt(AES-256)                                       |

## General

|              |                    |                    |
|--------------|--------------------|--------------------|
| Memory       | RAM                | 2GB                |
|              | Flash              | 1GB                |
| Edge Storage | Micro SD/SDHC/SDXC | Max. 256GB x 1slot |

## Environmental & Electrical

|                     |             |                                                                        |
|---------------------|-------------|------------------------------------------------------------------------|
| Operating Condition | Temperature | -40°C~+55°C(-40°F~+131°F)                                              |
|                     | Humidity    | 0~100% RH(condensing)                                                  |
|                     | Others      | Start up should be done at above -30°C, Humidity control with AIR vent |
| Storage Condition   | Temperature | -40°C~+55°C(-40°F~+131°F)                                              |
|                     | Humidity    | 0~95% RH(non-condensing)                                               |
| Input Voltage       |             | PoE(IEEE802.3af, Class3)                                               |
| Power Consumption   | PoE         | Max. 7.2W, typical 4.2W                                                |

## Mechanical

|       |       |
|-------|-------|
| Color | White |
|-------|-------|

## Mechanical

|                    |                                |
|--------------------|--------------------------------|
| Material           | Aluminum, Hard-coated dome     |
| RAL Code           | RAL9003                        |
| Product Dimensions | 106x105x55mm(4.17x.4.13x2.17") |
| Product Weight     | 466g(1.03 lb)                  |

## Certifications & Standards

|             |                                                                                                                                                                                                      |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC         | EN 50121-4, FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, VCCI CISPR 32 Class A, RCM AS-NZS CISPR 32 Class A, EN 50121-3-2 |
| Safety      | UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471                                                                                                                                                     |
| Environment | IEC/EN 63000, IEC 60529 IP66, IEC 62262 IK10, EN 50155, IEC 62236-4, EN 50121-4, JIS E 4031, EN 50498, IEC/EN 61373, EN 45545, JIS E 5006, IEC 62236-3-2                                             |

## DORI (EN62676-4 standard)

|                           |      |                  |
|---------------------------|------|------------------|
| Detect (25PPM/ 8PPF)      | Wide | 111.2m(364.74ft) |
| Observe (63PPM/ 19PPF)    | Wide | 44.5m(145.89ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 22.2m(72.95ft)   |
| Identify (250PPM/ 76PPF)  | Wide | 11.1m(36.47ft)   |

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CAD

Unit: mm [inch]

