



Network

Цилиндрические

## TNO-A26081

Ultra-resolution 26MP T AI camera



### Key Features

- 26MP Image Resolution
- 55~250mm Focal Length
- IP66, IP67, IK10 Rated
- AI Analytics Person and Vehicle Detection
- High resolution 26MP(max. resolution 6240x4160)
- Max. 30fps @ all resolutions (H.265, H.264, MJPEG)
- Diagonal 28.3mm 1.8" CMOS
- 55~250mm(4.54x) manual varifocal lens
- AI enabled features(Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection, Bestshot per object
- Hallway View, WiseStreamIII (Based on AI engine)
- PoE++(IEEE802.3bt type3, Class6), 12VDC
- IP66/IP67, IK10, NEMA4X
- Secure element with FIPS 140-3 level 3

## TNO-A26081

Ultra-resolution 26MP T AI camera



### Specifications

| Video                         |                       |                                                                                                                 |
|-------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| Imaging Device                | Size                  | Diagonal 28.3mm 1.8"                                                                                            |
|                               | Type                  | CMOS                                                                                                            |
| Resolution                    |                       | 6240x4160, 3840x2160, 2880x1920, 1920x1080, 1600x1200, 1440x960, 1280x800, 1280x720, 1024x768, 720x480, 640x480 |
| Max. Framerate                | H.265/H.264           | 30fps                                                                                                           |
|                               | MJPEG                 | 30fps                                                                                                           |
|                               | Others                | Max. 20fps when WiseAI on                                                                                       |
| Min. Illumination (Lux)       | Color(1/30sec, 30IRE) | 0.2Lux(F4.0, 1/30sec)                                                                                           |
|                               | BW(1/30sec, 30IRE)    | 0.02Lux(F4.0, 1/30sec)                                                                                          |
| Video Out                     |                       | USB: USB Type C. Preview and installation ONLY. Requires WiFi dongle.                                           |
| Lens                          |                       |                                                                                                                 |
| Focal Length (mm)             |                       | 55-250                                                                                                          |
| Zoom Ratio                    | Optical               | 4.54                                                                                                            |
| Max Aperture Ratio (F number) | Wide                  | 4                                                                                                               |
|                               | Tele                  | 5.6                                                                                                             |
| Angular Field of View         | Horizontal            | 24°(Wide)~5.4°(Tele)                                                                                            |
|                               | Vertical              | 16°(Wide)~3.6°(Tele)                                                                                            |
|                               | Diagonal              | 29°(Wide)~6.5°(Tele)                                                                                            |
| Min. Object Distance          |                       | 0.85m (2.8ft)                                                                                                   |
| Focus Control                 |                       | Simple focus                                                                                                    |
| Lens Type                     |                       | Canon EF-S 55~250mm F4-5.6 IS STM                                                                               |
| Mount Type                    |                       | Canon EF-S                                                                                                      |
| Operational                   |                       |                                                                                                                 |
| Day & Night                   |                       | Auto(ICR)                                                                                                       |
| Backlight Compensation        |                       | BLC, SSDR                                                                                                       |
| Digital Noise Reduction       |                       | WiseNR II (Based on AI engine), SSNR V                                                                          |
| Motion Detection              | Quantity              | 8ea                                                                                                             |
|                               | Shape                 | 8point Polygonal zones                                                                                          |

## Operational

|                                          |                |                                                                                                                                                                                                                                                                                  |
|------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Privacy Masking                          | Quantity       | 6ea                                                                                                                                                                                                                                                                              |
|                                          | Shape          | Rectangular zones                                                                                                                                                                                                                                                                |
|                                          | Color / Option | Gray, Black, White                                                                                                                                                                                                                                                               |
| Gain Control                             |                | Low, Middle, High                                                                                                                                                                                                                                                                |
| White Balance                            |                | ATW, AWC, Manual, Indoor, Outdoor                                                                                                                                                                                                                                                |
| Electronic Shutter                       | Mode           | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)                                                                                                                                                                                                       |
|                                          | Speed Range    | 1/5~1/12,000sec                                                                                                                                                                                                                                                                  |
| Video Rotation                           |                | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                                                                                                             |
| Alarm Interface                          | In/Out         | 2 configurable I/O ports                                                                                                                                                                                                                                                         |
| Alarm Triggers                           |                | Analytics, Network disconnect, Alarm input, Time schedule, MQTT subscription, Case tampering                                                                                                                                                                                     |
| Alarm Events When Alarm Trigger Occurred |                | File upload(image): e-mail/FTP/SFTP,<br>File upload(video clip): FTP/SFTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback,<br>MQTT: publication |
| Audio In                                 |                | Selectable(mic in/line in)                                                                                                                                                                                                                                                       |
| Audio Out                                |                | Line out                                                                                                                                                                                                                                                                         |

## Analytics

|                        |                    |                                                                                                                    |
|------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Classified Object Type |                    | Person, Face, Vehicle, License plate                                                                               |
| Attributes             | Person             | Upper/Lower clothes color, Gender, Bag                                                                             |
|                        | Vehicle            | Type(car, bus, truck, motorcycle, bicycle), Color                                                                  |
|                        | Face               | Age, Gender, Face mask, Glasses                                                                                    |
| 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, Audio detection, Virtual area(Appear/Disappear)                                      |
| Business Intelligence  | Based on AI Engine | People counting, Queue management, Heatmap, Vehicle counting                                                       |

## Network

|                   |  |                                                                                                                               |
|-------------------|--|-------------------------------------------------------------------------------------------------------------------------------|
| Ethernet          |  | Metal shielded RJ-45(10/100/1000BASE-T), SFP                                                                                  |
| 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 |
| Smart Codec       |  | Manual, WiseStream(Based on AI engine)                                                                                        |
| Bitrate Control   |  | H.265/H.264: CBR or VBR,<br>MJPEG: VBR                                                                                        |

## Network

|                                   |                    |                                                                                                                                                                                                                             |
|-----------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Streaming                         | Unicast            | Up to 20 users                                                                                                                                                                                                              |
|                                   | Multicast          | Support                                                                                                                                                                                                                     |
|                                   | Multiple Streaming | Up to 10 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), SRTP                                      |  |
| Access Control         | IP-based access control, MAC-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         | TPM(Trusted platform module), SDcard partition encrypt(AES-256)         |  |
| Security Certificate   | Secure element with FIPS 140-3 level3                                   |  |

## General

|              |                    |                               |
|--------------|--------------------|-------------------------------|
| Memory       | RAM                | 8GB                           |
|              | Flash              | 16GB eMMC                     |
| Edge Storage | Micro SD/SDHC/SDXC | Max. 512GB x 2slot(Total 1TB) |

## Environmental & Electrical

|                     |             |                                         |
|---------------------|-------------|-----------------------------------------|
| Operating Condition | Temperature | -40°C~+55°C(-40°F~+131°F)               |
|                     | Humidity    | 0~100% RH(condensing)                   |
| Storage Condition   | Temperature | -50°C~+60°C(-58°F~+140°F)               |
|                     | Humidity    | 0~95% RH(non-condensing)                |
| Input Voltage       |             | PoE++(IEEE802.3bt type3, Class6), 12VDC |
| Power Consumption   | PoE         | Max 44.3W, Typical 24.9W                |
|                     | 12VDC       | Max 35.4W, Typical 19.6W                |

## Mechanical

|          |                             |  |
|----------|-----------------------------|--|
| Color    | White                       |  |
| Material | Aluminum, PC(Polycarbonate) |  |

## Mechanical

|                    |                                       |
|--------------------|---------------------------------------|
| RAL Code           | RAL9003                               |
| Product Dimensions | 193.5x193.5x532mm(7.62"x7.62"x20.94") |
| Product Weight     | 8100g(17.86lb)                        |

## Certifications & Standards

|             |                                                                                                                                                                                   |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC         | 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, RCM AS-NZS CISPR 32 Class A, KS C 9832 Class A, KS C 9835 |
| Safety      | UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471                                                                                                                                  |
| Environment | IEC/EN 63000, IEC 60529 IP66, IEC 60529 IP67, IEC 62262 IK10, NEMA 250 type 4X                                                                                                    |

## DORI (EN62676-4 standard)

|                           |      |                     |
|---------------------------|------|---------------------|
| Detect (25PPM/ 8PPF)      | Wide | 587.1m(1,926.3ft)   |
|                           | Tele | 2,646.4m(8,682.3ft) |
| Observe (63PPM/ 19PPF)    | Wide | 234.9m(770.5ft)     |
|                           | Tele | 1,058.6m(3,472.9ft) |
| Recognize (125PPM/ 38PPF) | Wide | 117.4m(385.3ft)     |
|                           | Tele | 529.3m(1,736.5ft)   |
| Identify (250PPM/ 76PPF)  | Wide | 58.7m(192.6ft)      |
|                           | Tele | 264.6m(868.2ft)     |

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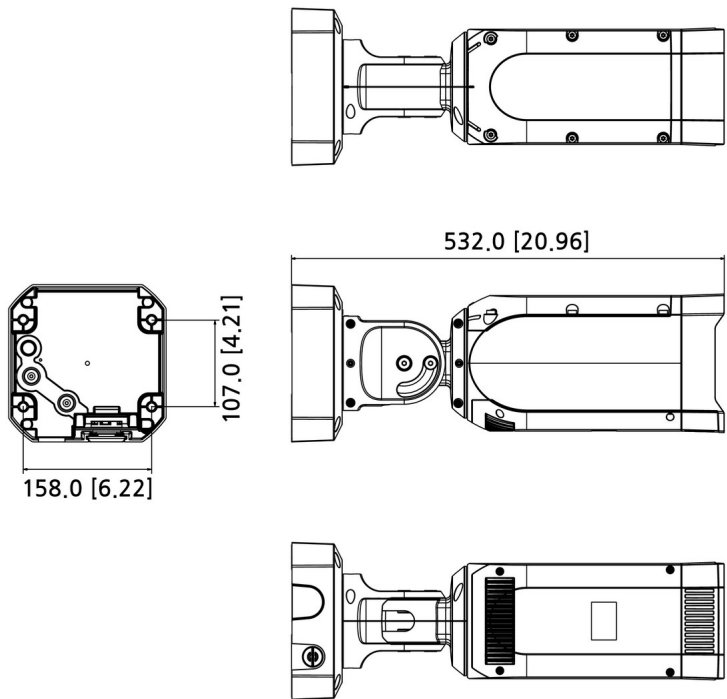
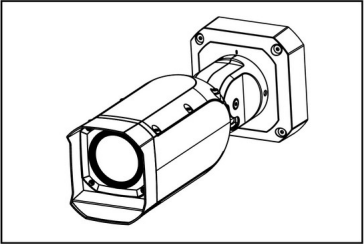


CAD

Unit: mm [inch]

TNO-A26081 Ultra-resolution 26MP T AI Camera

Reference image



|               |           |
|---------------|-----------|
| Revision      | V1.2      |
| Revision Date | 25/06/16  |
| Paper Size    | A1        |
| Unit          | mm [inch] |
| Scale         | 1 : 2     |

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