

Network Bullet

# 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

• 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

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.

# 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 |

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.

## 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: Main,<br>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 |

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.

## 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, IGMPv2, 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) |

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.

## 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) |

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.

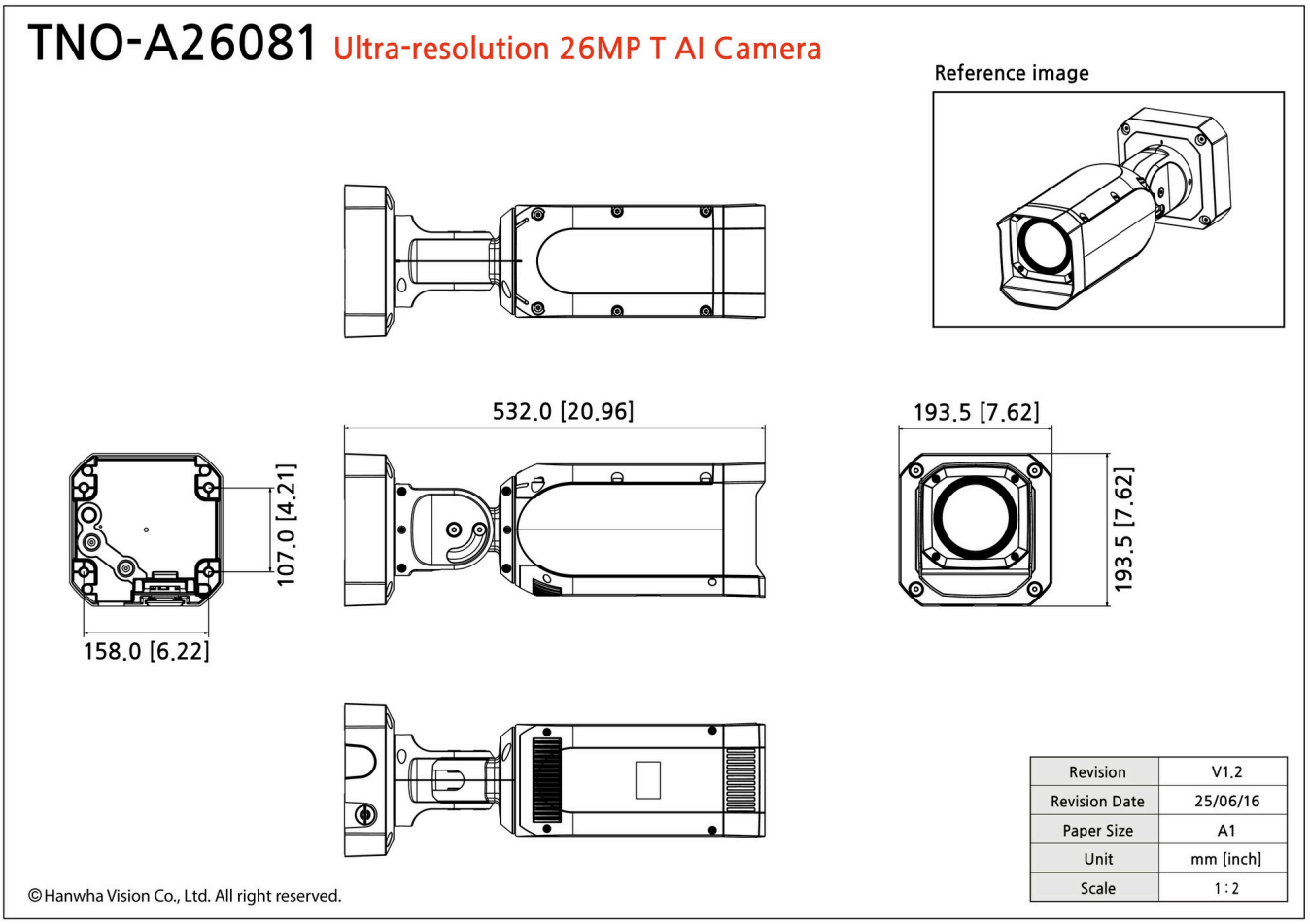
# TNO-A26081

Ultra-resolution 26MP T AI camera



## CAD

Unit: mm [inch]




Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.