



Network

Bullet

# TNO-4030T

VGA H.265 Thermal Camera



## Key Features

- Max. 640 x 480 resolution support
- Built-in 13mm fixed lens
- H.265, H.264, MJPEG codec
- Max. 30fps@all resolutions (H.265, H.264, MJPEG)
- Motion detection, Handover, Tampering, Loitering
- Directional detection, Audio detection
- SD / SDHC / SDXC memory slot (Max. 256GB)
- Hallway View, WiseStreamII support
- PoE, 24V AC, 12V DC
- IP66, NEMA4X, IK10

※ Bridge firmware is required to upgrade from 1.00~1.2X versions to the latest version.  
For more details, please refer to the [UPGRADE NOTIFICATION] or [Release Note]  
included with your firmware (ZIP file).

## Compatible Accessories (Optional)



SBP-303PM

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## Specifications

|                             |                                                                                                                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video                       |                                                                                                                                                                                         |
| Imaging Device              | Uncooled micro bolometer                                                                                                                                                                |
| Resolution                  | 640x480, 640x360, 320x240                                                                                                                                                               |
| Max. Framerate              | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 30fps/25fps(60Hz/50Hz)                                                                                                          |
| NETD                        | <50mK                                                                                                                                                                                   |
| Pixel Size                  | 17μm                                                                                                                                                                                    |
| Video Out                   | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation<br>USB: Micro USB Type B, 1280x720 for installation                                                             |
| Lens                        |                                                                                                                                                                                         |
| Focal Length (Zoom Ratio)   | 13mm fixed focal                                                                                                                                                                        |
| Max. Aperture Ratio         | F1.0                                                                                                                                                                                    |
| Angular Field of View       | H: 48.6° / V: 36.4 / D: 61.6°                                                                                                                                                           |
| Min. Object Distance        | 5m(16.40ft)                                                                                                                                                                             |
| Focus Control               | Fixed                                                                                                                                                                                   |
| Operational                 |                                                                                                                                                                                         |
| Camera Title                | Displayed up to 85 characters                                                                                                                                                           |
| Digital Image Stabilization | Support(built-in gyro sensor)                                                                                                                                                           |
| Motion Detection            | 8ea, 8point polygonal zones                                                                                                                                                             |
| Privacy Masking             | 32ea, polygonal zones<br>- Color: Grey/Green/Red/Blue/Black/White<br>- Mosaic                                                                                                           |
| Video Rotation              | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                    |
| Analytics                   | Directional detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Temperature dtection, Sound classification, Shock detection |
| Alarm I/O                   | Input 1ea / Output 2ea                                                                                                                                                                  |
| Alarm Triggers              | Analytics, Network disconnect, Alarm input                                                                                                                                              |
| Alarm Events                | File upload via FTP and e-mail<br>Notifcation via e-mail<br>SD/SDHC/SDXC or NAS recording at event triggers<br>Alarm output<br>Handover                                                 |
| Audio In                    | Selectable(mic in/line in)<br>Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm                                                                                                      |
| Audio Out                   | Line out, Max.output level: 1Vrms                                                                                                                                                       |
| Color Palettes              | Whitehot, Blackhot, Rainbow, Sepia, Red, Iron, Wisenet                                                                                                                                  |
| Network                     |                                                                                                                                                                                         |
| Ethernet                    | RJ-45(10/100BASE-T)                                                                                                                                                                     |
| Video Compression           | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                                                                  |

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com)

Hanwha Vision is formerly known as Hanwha Techwin.

|                                   |                                                                                                                                                                                                  |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio Compression                 | G.711 u-law /G.726 Selectable<br>G.726(ADPCM) 8KHz, G.711 8KHz<br>G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps<br>AAC-LC: 48Kbps at 16KHz                                                               |
| Smart Codec                       | Manual(5ea area), WiseStream II                                                                                                                                                                  |
| Bitrate Control                   | H.264/H.265: CBR or VBR<br>MJPEG: VBR                                                                                                                                                            |
| Streaming                         | Unicast(20 users) / Multicast<br>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, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP, SRTP |
| Security                          | HTTPS(SSL) Login Authentication<br>Digest Login Authentication<br>IP Address Filtering<br>User access log<br>802.1X Authentication(EAP-TLS, EAP-LEAP)                                            |
| Application Programming Interface | ONVIF Profile S/G/T<br>SUNAPI(HTTP API)<br>Wisenet open platform                                                                                                                                 |

## General

|              |                                                                                                                                                                                                                   |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Web Viewer   | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12<br>Recommended Browser: Google Chrome<br>Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only) |
| Edge Storage | Micro SD/SDHC/SDXC 1slot 256GB                                                                                                                                                                                    |
| Memory       | 1024MB RAM, 256MB Flash                                                                                                                                                                                           |

## Environmental & Electrical

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| Operating Temperature / Humidity | -40°C ~ +60°C (-40°F ~ +140°F) / 90% RH 이하                                                     |
| Storage Temperature / Humidity   | -50°C ~ +60°C (-58°F ~ +140°F) / 90% RH 이하                                                     |
| Certification                    | IP66, IK10, NEMA4X                                                                             |
| Input Voltage                    | PoE(IEEE802.3af, Class3), 24VAC, 12VDC                                                         |
| Power Consumption                | PoE: Max. 10W, typical 8.6W<br>12VDC: Max. 9W, typical 7.5W<br>24VAC: Max. 10.5W, typical 8.9W |

## Mechanical

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Color / Material            | White / Aluminum                              |
| RAL Code                    | RAL9003                                       |
| Product Dimensions / Weight | Φ101.97x401.8mm(4.01x15.82") / 3124g(6.89 lb) |

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CAD

Unit:mm [inch]

