

# VT-TPTZ25HRAN-8PNL

Transcendent Gen. IV 8 MegaPixel [4K] 25x NDAA Compliant IP PTZ with A.I. Powered Facial Recognition and Auto-Tracking



## KEY FEATURES

- 1/2.8" Sony STARVIS® 8 MegaPixel [4K] Progressive Scan CMOS STARLIGHT Sensor
- Up to 8 MegaPixel (3840 × 2160) Max Resolution @ 30fps
- Ultra High-Speed Pan / Tilt / Zoom with 25x Optical Zoom Lens (4.8-120mm Focal Length)
- 3.6s Zoom Speed (Optical, Wide-Tele), F1.65~F3.8 Aperture Range
- Smart IR with up to 492' (150m) IR Range
- Smart H.265+/H.265/H.264+/H.264/MJPEG Compression
- Real-Time Auto Zoom Tracking: Transcendent Gen. IV IP PTZ Cameras Feature the Most Advanced PTZ Auto-Tracking Available, Powered by A.I.
- Gen. IV Advanced Analytics: Intrusion Detection, Line Crossing, Region Entrance / Exit, Target Counting [All by Human / Vehicle Classification] Scene Change, Face Detection / Capture
- Backlight / Highlight Compensation, Auto-White Balance, Gain Control, Day / Night
- True 120dB WDR (Wide Dynamic Range)
- 360 Presets, 8 Cruises, up to 16 Presets / Cruise + 4 Tracks (3+ Min. Recording / Track)
- 1 Ch. Audio In + Out\*
- 1 Ch. Alarm In + Out
- Advanced Starlight Technology Offers Dramatically Higher Sensitivity to Light, Producing Color Images in Very Dark & Night Scenes
- True Day/Night with ICR Cut Filter with Auto/Manual Gain Control
- 360° Endless Pan Range, Configurable Speed: .1~200°/s + 240°/s Preset
- Built-in MicroSD Card Slot, Supporting Local Recording up to 256GB
- IP66 Ingress Protection + IK10 [Excluding Glass] Impact Rating
- 12VDC Power [12VDC 3Amps Power Supply Included in Package] or PoE+ (802.3.at, class 3) \*PoE Injector Required for PoE Power - See Rear Page
- Reset Button, Heater, Fan, Water Removal with Quick Spinning
- 1 RJ45 10M/100M Adaptive Ethernet (Supports PoE 802.3.at)
- Optional Pendant, Semi-Flush, Corner, Pole, and Wall Mounts Available (see rear page)
- Compact Aluminum Alloy + Plastic (Glass Fiber 15%) Housing -- see rear page for full dimensional drawings
- 3-Year Warranty

\*Please research local, state and federal laws regarding the implementation of audio surveillance  
\*SONY™ is an independent and wholly owned corporation and has not tested or verified this product.



## TRANSCENDENT "GEN IV" SERIES PTZ IP CAMERA WITH AI POWERED FACIAL RECOGNITION AND AUTO-TRACKING!

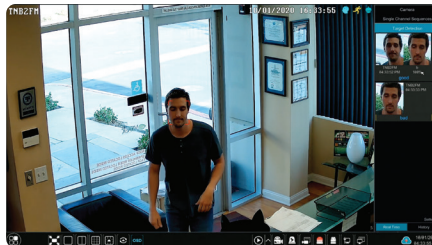
The Transcendent VT-TPTZ25HRAN-8PNL NDAA Compliant High-Speed IP Pan / Tilt / Zoom (25X Optical) Camera with Programmable (Smart) Auto-Tracking, features a Deep-Learning Engine with a powerful Computer Vision and Digital Signal Processor. This supports multiple Advanced Analytic functions including Face Recognition (FR), and Vehicle / Human Detection. Up to 15 targets (vehicle, human, 2-wheel) can be simultaneously detected with real-time Auto Zoom tracking. It also features IP66 Ingress Protection and Smart IR with a range of over 490'. Power supply included in package.

## THE TRANSCENDENT "GEN IV" SERIES DELIVERS ADVANCED A.I. TECHNOLOGY:



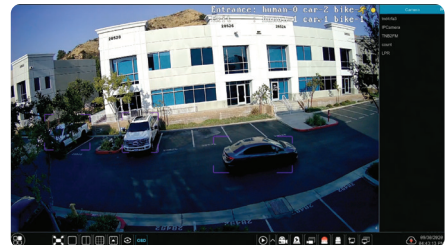
### REAL-TIME AUTO ZOOM TRACKING

Transcendent GEN IV IP PTZ Cameras feature the most advanced PTZ Auto-Tracking available, powered by A.I.!



### AI FACIAL RECOGNITION

Transcendent GEN IV Advanced Analytics deliver improved Facial Recognition, with up to 95% accuracy!



### INTELLIGENT CAR COUNTING

Intelligent tracking is also capable of counting people, cars, and bicycles entering and exiting the camera's view

## SPECIFICATIONS

|                     |                                                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor        | 1/2.8" Sony STARVIS <sup>®</sup> STARLIGHT Progressive Scan CMOS Sensor                                                            |
| Resolution          | 8.0 MegaPixel (3840 × 2160) Resolution @ 30fps                                                                                     |
| Min. Illumination   | Color: 0.01 Lux @ (F1.65 AGC On) B/W: 0.002 Lux @ (F1.65 AGC On), 0 Lux w/IR                                                       |
| Image Setting       | Flip, Mirror, Saturation, Brightness, Contrast, Sharpness, AGC, (Adjusted by Client)                                               |
| Shutter Speed       | 1/1s ~ 1/100,000s                                                                                                                  |
| White Balance       | Auto / Manual / Indoor / Outdoor                                                                                                   |
| Day / Night         | Auto / Manual + Schedule                                                                                                           |
| Gain Control        | Auto / Manual                                                                                                                      |
| Iris Control        | Auto / Manual                                                                                                                      |
| SNR                 | ≥55dB                                                                                                                              |
| DNR                 | XD-DNR (3D-DNR / 2D-DNR) - Auto/Manual                                                                                             |
| WDR                 | True WDR (120dB)                                                                                                                   |
| IR Type / Distance  | Smart IR - Up to 492' IR Range (150M)                                                                                              |
| Smart IR            | Yes                                                                                                                                |
| Image Enhancement   | Backlight Compensation (BLC), Highlight Compensation (HLC)                                                                         |
| Privacy Mask        | 4 Areas, up to 4 Masks in a Single Frame                                                                                           |
| Overlay Features    | Picture: Custom Logo on video [128x128px], 24bit BMP, OSD: Max 15 Character / Line, 8 Lines, White or Red Font                     |
| Lens / Focal Length | 4.8~120mm Lens (25x Optical Zoom) w/3.6s Zoom Speed, and Digital Zoom                                                              |
| Zoom Speed          | Approx. 3.6s (Optical Zoom, Wide Tele)                                                                                             |
| Field of View (FOV) | Horizontal: 55°~2.4° / Vertical: 33°~1.4° / Diagonal: 61.5°~2.8° (Wide-tele) **All listed speeds + / - 5%                          |
| Working Distance    | Wide: 1.0m ~ INF, Tele: 1.5m ~ INF                                                                                                 |
| Aperture Range      | F1.65 ~ F3.8 (wide-tele)                                                                                                           |
| Iris Type           | DC-IRIS(Hall sensor, 16 Stops), F1.65 ~ F3.8 (wide-tele)                                                                           |
| IR Cut type         | Removable IR Cut filter                                                                                                            |
| D.O.R.I. (US)       | <b>Detect</b> (8px/ft): 8930', <b>Observe</b> (19px/ft): 3543', <b>Recognize</b> (38px/ft): 1772', <b>Identify</b> (76px/ft): 886' |
| D.O.R.I. (Metric)   | <b>Detect</b> (25px/M): 2722M, <b>Observe</b> (63px/M): 952M, <b>Recognize</b> (125px/M): 540M, <b>Identify</b> (250px/M): 270M    |
| Pan Range / Speed   | 360° Endless, Configurable from .1°/s ~ 200°/s; Preset speed: 240°/s                                                               |
| Tilt Range / Speed  | -10°~90° [Auto-Flip] / Configurable, from 0.1/s~200°/s, Preset speed: 240°/s                                                       |
| PTZ Features        | Proportional Zoom, Pwr-Off Memory, 3D Position, PTZ Position Display                                                               |
| Preset / Cruise     | 360 / 8 Cruises, Up to 16 Presets for Each Cruise                                                                                  |
| Tracks              | 4 Tracks, Record Time Over 3 Minutes for Each Track                                                                                |
| Scheduled Tasks     | Preset / Cruise / Track / Random Scan / Boundary Scanning / Dome Reboot                                                            |
| Max Resolution      | 3840 × 2160                                                                                                                        |

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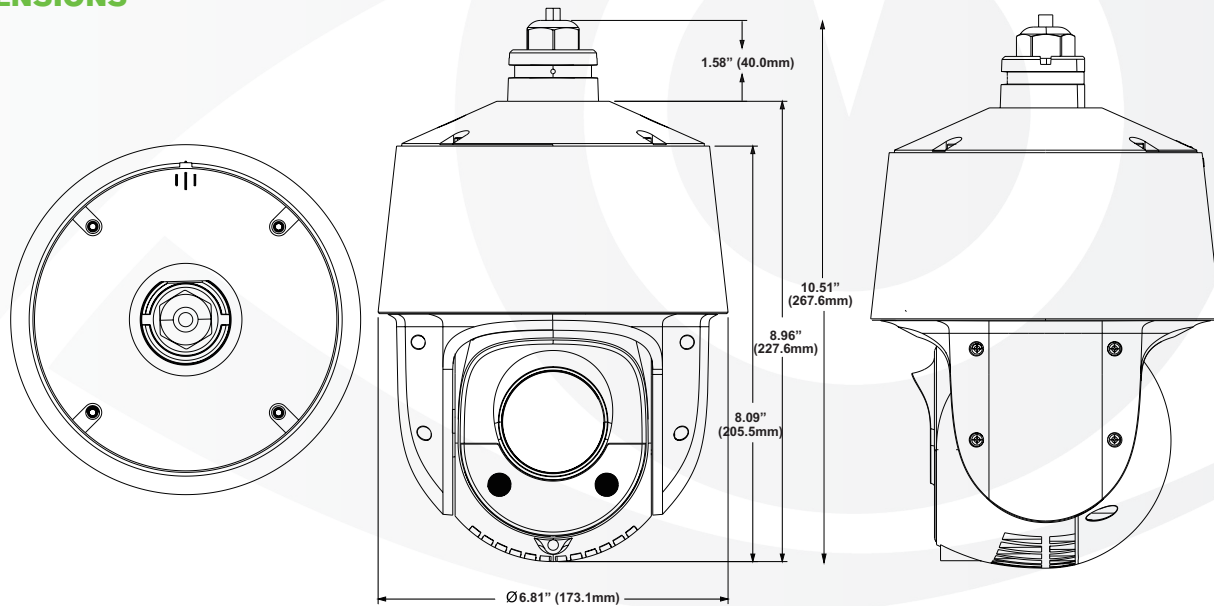
## SPECIFICATIONS (Continued)

|                                      |                                                                                                                                                                                                                              |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Main Stream</b>                   | 60Hz: 30fps: 3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720<br>50Hz: 25fps: 3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720                                                                     |
| <b>Sub Stream</b>                    | 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)<br>50Hz: 25fps: (704 × 576, 640 × 480, 352 × 288)                                                                                                                              |
| <b>Third Stream</b>                  | 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)<br>50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)                                                     |
| <b>Video Compression</b>             | H.265+/H.265/H.264+/H.264/MJPEG                                                                                                                                                                                              |
| <b>Compression Standards</b>         | H.265: HEVC Codec MP, Level 5.0, H.264: AVC codec BP/MP/HP, Level 5.1                                                                                                                                                        |
| <b>Video Bit Rate</b>                | 64Kbps to 16Mbps                                                                                                                                                                                                             |
| <b>Audio Compression / Bit Rate</b>  | G.711A/U / 64Kbps                                                                                                                                                                                                            |
| <b>Deep Learning Engine</b>          | Supports Face Recognition (FR) up to 15 Human Faces / Sec (max), Human/Vehicle Detection                                                                                                                                     |
| <b>Smart Auto Tracking</b>           | Auto Tracking (supports tracking specified target types such as human and vehicle), Manual Tracking                                                                                                                          |
| <b>Basic Event Detection</b>         | Motion detection, Video Tampering, Exception (Network Disconnected, IP Address Conflict, SD Card Full / Error)                                                                                                               |
| <b>Smart Event Detection</b>         | Trip Wire (+ Bi-Directional), Intrusion / Line Crossing / Region Entering + Exiting, Support Alarm Triggering by Specified Target Types (Human / Vehicle), Un-attended Baggage, Object Removal, Auto / Manual Smart Tracking |
| <b>Gen. IV Advanced Analytics</b>    | Face Detection (15 Faces Simultaneously), Detect, Track, Capture + Vehicle / Non Vehicle Detection & Tracking                                                                                                                |
| <b>Protocols</b>                     | HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, DHCP, PPPoE                                                                                                        |
| <b>Audio Interface</b>               | 1 Audio Input (MIC in), 1 Audio Output, Line Level, Impedance, 600Ω                                                                                                                                                          |
| <b>Alarm Interface</b>               | 1 Alarm Input (Dry Contact); 1 Alarm Output                                                                                                                                                                                  |
| <b>Alarm Linkage</b>                 | Alarm Actions, Including Preset, Cruise, Track, Memory Card Video Record, Trigger Recording, Upload to FTP/Memory, Card, Send Email                                                                                          |
| <b>Live View Connections</b>         | Up to 6 Simultaneous Live View Connections                                                                                                                                                                                   |
| <b>User/Host</b>                     | Up to 16 users, 3 levels: Administrator, Advanced and Normal Users                                                                                                                                                           |
| <b>Security Measures</b>             | User Authentication (ID and PW), Host authentication (MAC address); HTTPS encryption., IEEE802.1x port-based net account control; IP address filtering                                                                       |
| <b>Web Browser</b>                   | Internet Explorer (IE) - Plug-in Required, Edge in IE Mode                                                                                                                                                                   |
| <b>API</b>                           | ONVIF, Third-Party Integration                                                                                                                                                                                               |
| <b>CVBS (BNC), RS485</b>             | NA                                                                                                                                                                                                                           |
| <b>On-Board Storage</b>              | Built-in microSD/SDHC/SDXC card slot, up to 256GB                                                                                                                                                                            |
| <b>Network Interface</b>             | 1 RJ45 10M/100M Adaptive Ethernet (Support PoE+ 802.3.at)                                                                                                                                                                    |
| <b>Thermal / Weather Management</b>  | Internal Heater and Fan + Quick Spin Water Removal                                                                                                                                                                           |
| <b>Reset Button</b>                  | YES                                                                                                                                                                                                                          |
| <b>Working Environment</b>           | -40°F~140°F (-40°C~60°C), 90% RH [STORAGE CONDITIONS: -40°F~158°F (-40°C~70°C), 95% RH]                                                                                                                                      |
| <b>Cold Start</b>                    | -22°F / - 30°C (30 Minutes Waiting Time), 90% RH                                                                                                                                                                             |
| <b>Weather / Impact / Protection</b> | IP66 + IK10 (Excl. Glass Window), 6000V (Lightning, Surge, and Voltage Transient Protection)                                                                                                                                 |
| <b>Power</b>                         | 12VDC @ 3amps (3000mA), PoE+ (24W with IR on, PTZ) <i>*Power Supply Included, **PoE Injector Required for PoE Power</i>                                                                                                      |
| <b>Dimensions and Weight</b>         | 6.81" × 10.51" (173mm × 268mm), NET: 4.85lb (2.2kg) / SHIPPING: 7.50lb (3.4kg)                                                                                                                                               |

# VT-TPTZ25HRAN-8PNL



## DIMENSIONS



## OPTIONAL MOUNTS & POPULAR ACCESSORIES



**VT-TPT20HR-FM**  
Semi-flush Mount



**VT-TPT23HR-WM**  
Optional Universal Wall Mount



**VT-TPT20HR-PM**  
Optional Ceiling/  
Pedestal Mount



**VT-TPLMT-W**  
Transcendent  
Universal Pole  
Mount Adapter - White  
(reqs.  
VT-TPT23HR-WM)



**VT-TCNMT-W**  
Transcendent  
Universal Corner  
Mount Adapter - White  
(reqs.  
VT-TPT23HR-WM)

### VT-TWM36

Optional 3' (1M) Extended Wall Mount - White



### VT-TPLM36

Optional 3' (1M) Extended Pole Mount Bracket - White



### VT-TCNM36

Optional 3' (1M) Extended Corner Mount Bracket - White



## INCLUDED POWER SUPPLY

12VDC 3amp Power Supply



### VT-POE60

60 Watt POE Mid-Span Injector, 4-Pair Compliant

### VT-POE95

95 Watt POE Mid-Span Injector, 4-Pair Compliant



An Eye On  
Innovation



## Pair With Transcendent IP NVRs, HDA DVRs, Bridge or Spire Series Recorders!

Pair with one of several VITEK Transcendent Series Network or Digital Recorders offering a Myriad of Advanced Analytic Functions and Applications! See [www.vitekccv.com](http://www.vitekccv.com) for More!

[www.vitekccv.com](http://www.vitekccv.com)

