

# VT-TPTZ4AD-4M

Transcendent 4 Megapixel "Mini" IP PTZ Camera with 4X Optical Zoom, Smart Auto-Tracking, Face Detection, and Active Deterrence [PRELIMINARY SPECS]



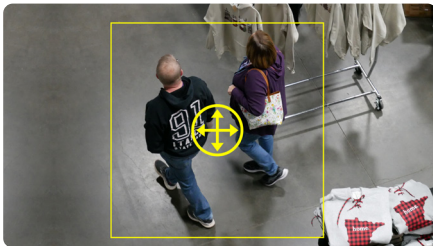
## KEY FEATURES

- 1/2.7" Progressive Scan CMOS STARLIGHT Sensor with Backside Illuminated and Near Infrared Technology  
*Backside Illumination (BSI) Technology improves performance in low light conditions, and Near-Infrared (NIR) Technology produces higher quality images and improved distant object capture in all light conditions*
- Up to 4 MegaPixel (2560×1440) Max Resolution @ 30fps
- Hi-Speed Pan/Tilt/Zoom w/ 4xOptical Zoom Lens (2.8-12mm Focal Length)
- 1.6s Zoom Speed (Optical, Wide-Tele), F1.6~F2.7 Aperture Range
- Smart IR with up to 165' (50m) 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
- Active Deterrence: Flashes Ultra Bright White Light [up to 100'] and Emits Predefined / Custom Audio Warnings within a Given Area. Supports 10 Voice / Audio Clips [Alarm Range <100', Voice Recording <25'].
- Back/Highlight Compensation, Auto-White Balance, Gain Cntrl, Day/Night
- True 120dB WDR (Wide Dynamic Range)
- PTZ: 300 Presets, 8 Cruises, 16 Presets/Cruise + 4 Tracks (3 Min. / Track)
- 0~355° Pan Range, Configurable Speed: 0.1~80°/s, 80°/s Preset
- 1 Ch. Audio In + Out + Built-in Mic + Speaker\*, 1 Ch. Alarm In + Out
- True Day/Night with ICR Cut Filter with Auto/Manual Gain Control
- Built-in MicroSD Card Slot, Supporting Local Recording up to 256GB
- IP66 Ingress Protection + IK10 [Including Glass] Impact Rating
- 12VDC Power or PoE+ (802.3.at, class 3)
- Built-in Temp Sensor [Triggers Auto Shut-Down], Heater [auto @ cold start]
- 1 RJ45 10M/100M Adaptive Ethernet (Supports PoE+ 802.3.at)
- Numerous Mounting Options and Adapters Available (See Pg. 5)
- Compact Aluminum Alloy + Plastic (Glass Fiber 15%) Housing -- see Pg. 5 for dimensional drawings
- 3-Year Warranty

\*Please research local, state and federal laws regarding the implementation of audio surveillance product.

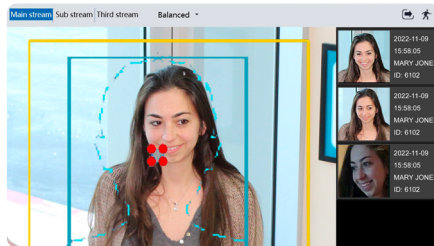


## THE TRANSCENDENT "GEN IV" SERIES DELIVERS ADVANCED A.I. TECHNOLOGY:



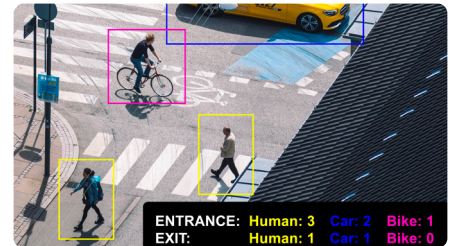
### REAL-TIME AUTO ZOOM TRACKING

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



Shown with Optional Wall Mount VT-TWMT-4-W [above left] and J-Box VT-TJB-F1 [above right], Sold Separately



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

The Transcendent VT-TPTZ4AD-4M NDA Compliant "Mini" High-Speed IP Pan / Tilt / Zoom (4X 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 Detection (FD), and Vehicle / Human Detection. Multiple targets can be simultaneously detected with real-time Auto Zoom tracking, and the Active Deterrence supports custom audio warnings and flashing white lights. This model also features IP66 Ingress Protection, IK10 Impact Rating (including the lens window), and Smart IR with a range of up to 165'. All of this is delivered within a compact PTZ that will easily meet the demands of a wide variety of surveillance areas including retail areas, warehouses, residential communities, schools, ports, hospitals, and more.

**[PRELIMINARY] DETAILED SPECIFICATIONS**

|                            |                                                                                                                                                                                                                                                                                                                                   |                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Image sensor</b>        | 1/2.7" Progressive Scan CMOS STARLIGHT Sensor with Backside Illuminated and Near Infrared Technology<br><i>Backside Illumination (BSI) Technology improves performance in low light conditions, and Near-Infrared (NIR) Technology produces higher quality images and improved distant object capture in all light conditions</i> |                   |
| <b>Min. Illumination</b>   | Color: 0.01 Lux @ (F1.6 AGC ON), B/W: 0.002 Lux @ (F1.6 AGC ON), 0 Lux with IR                                                                                                                                                                                                                                                    |                   |
| <b>Image Setting</b>       | Flip, Mirror, Saturation, Brightness, Contrast, Sharpness, AGC, and Auto White Balance adjusted by client                                                                                                                                                                                                                         |                   |
| <b>Shutter Speed</b>       | 60Hz: 1/30s~1/30,000s, 50Hz: 1/25s~1/25,000s,                                                                                                                                                                                                                                                                                     |                   |
| <b>White Balance</b>       | Auto/Manual/Indoor/Outdoor                                                                                                                                                                                                                                                                                                        |                   |
| <b>Gain</b>                | Auto/Manual                                                                                                                                                                                                                                                                                                                       |                   |
| <b>Day&amp;Night</b>       | Auto/Manual                                                                                                                                                                                                                                                                                                                       |                   |
| <b>Aperture control</b>    | N/A                                                                                                                                                                                                                                                                                                                               |                   |
| <b>S/N Ratio</b>           | ≥52dB                                                                                                                                                                                                                                                                                                                             |                   |
| <b>3D DNR</b>              | Auto/Manual                                                                                                                                                                                                                                                                                                                       |                   |
| <b>AE Enhancement</b>      | Backlight Control, Highlight Control, Wide Dynamic Range                                                                                                                                                                                                                                                                          |                   |
| <b>Privacy Mask</b>        | 4 Programmable Privacy Masks                                                                                                                                                                                                                                                                                                      |                   |
| <b>Picture overlay</b>     | Logo / jpg can be overlaid on video (128x128 pixels), 24bits BMP format                                                                                                                                                                                                                                                           |                   |
| <b>Font overlay</b>        | Max 15 Characters per Line, 8 Lines Max, White or Red Color                                                                                                                                                                                                                                                                       |                   |
| <b>Focus length</b>        | f=2.8-12mm Lens, 4× Optical                                                                                                                                                                                                                                                                                                       |                   |
| <b>Zoom Speed</b>          | About 1.6 Seconds (wide-tele)                                                                                                                                                                                                                                                                                                     |                   |
| <b>Field of View</b>       | Horizontal: 97°to 31°±5%, Vertical: 51°to 18°±5%, Diagonal: 115°to 36°±5% (wide-tele)                                                                                                                                                                                                                                             |                   |
| <b>Working distance</b>    | Wide: 0.3m ~ INF, tele: 0.5m ~ INF                                                                                                                                                                                                                                                                                                |                   |
| <b>Aperture Range</b>      | F1.6~ F2.7 (wide-tele)                                                                                                                                                                                                                                                                                                            |                   |
| <b>DORI:</b>               | 2.8mm:                                                                                                                                                                                                                                                                                                                            | 12mm:             |
| <b>DETECT (25px/m),</b>    | 223 ft (68m)                                                                                                                                                                                                                                                                                                                      | 678.1 ft (206.7m) |
| <b>OBSERVE (63px/m),</b>   | 88.9ft (27.1m)                                                                                                                                                                                                                                                                                                                    | 269.0 ft (82m)    |
| <b>RECOGNIZE (125px/m)</b> | 44.6ft(13.6m)                                                                                                                                                                                                                                                                                                                     | 135.5 ft (41.3m)  |
| <b>IDENTIFY (250px/m)</b>  | 22.3ft (6.8m)                                                                                                                                                                                                                                                                                                                     | 68ft (20.7m)      |
| <b>Day / Night</b>         | True Day / Night by ICR                                                                                                                                                                                                                                                                                                           |                   |
| <b>Pan Range</b>           | 0~355°                                                                                                                                                                                                                                                                                                                            |                   |
| <b>Pan speed</b>           | Configurable, from 0.1~80°/s, Preset speed: 80°/s                                                                                                                                                                                                                                                                                 |                   |
| <b>Tilt Range</b>          | From -5°to 90°                                                                                                                                                                                                                                                                                                                    |                   |
| <b>Tilt Speed</b>          | Configurable, from 0.1°~ 60°/s, Preset speed: 60°/s                                                                                                                                                                                                                                                                               |                   |
| <b>Proportional Zoom</b>   | Yes                                                                                                                                                                                                                                                                                                                               |                   |
| <b>Preset</b>              | 300                                                                                                                                                                                                                                                                                                                               |                   |
| <b>Cruise</b>              | 8 cruises, up to 16 presets for each cruises                                                                                                                                                                                                                                                                                      |                   |
| <b>Tracks</b>              | 4 Tracks, Record Time 180 seconds (3 min) per Track                                                                                                                                                                                                                                                                               |                   |
| <b>Power off Memory</b>    | Yes                                                                                                                                                                                                                                                                                                                               |                   |
| <b>Action Mode</b>         | Preset / Cruise / Trace / Auto Scan / Random Scan                                                                                                                                                                                                                                                                                 |                   |
| <b>3D Positioning</b>      | Yes                                                                                                                                                                                                                                                                                                                               |                   |

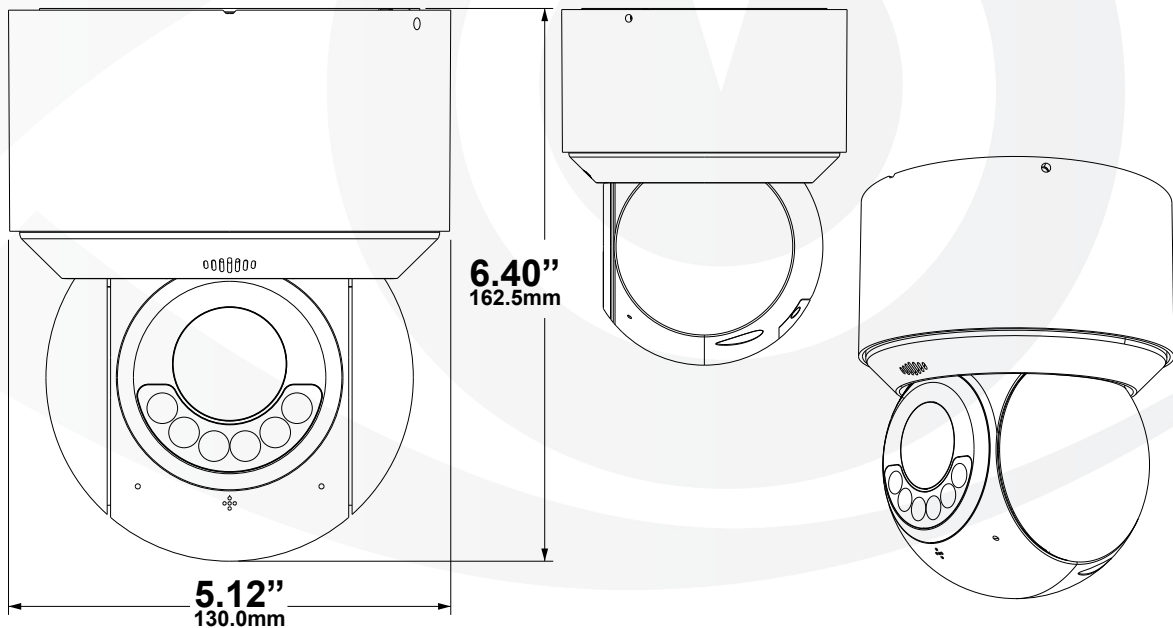
**[PRELIMINARY] DETAILED SPECIFICATIONS**

|                             |                                                                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PTZ Position Display</b> | Yes                                                                                                                                                                                        |
| <b>Schedule Task</b>        | Preset / Cruise / Trace / Random Scan / Boundary Scanning / Dome Reboot                                                                                                                    |
| <b>IR Distance</b>          | Up to 165ft (50m)                                                                                                                                                                          |
| <b>IR</b>                   | 4pcs of IR Array into 2 Groups, Auto Switch with Zoom Ratio                                                                                                                                |
| <b>Smart IR</b>             | Yes                                                                                                                                                                                        |
| <b>White Light</b>          | 2pcs of White LED Array                                                                                                                                                                    |
| <b>White Light Distance</b> | Up to 100' (30m)                                                                                                                                                                           |
| <b>White light Mode</b>     | Flash Mode (2 × Brightness), Time Interval Adjustable                                                                                                                                      |
| <b>Max Resolution</b>       | 2560×1440                                                                                                                                                                                  |
| <b>Main stream</b>          | 30fps (2560×1440, 2048×1536, 1920×1080, 1280×960, 1280×720)<br>25fps (2560×1440, 2048×1536, 1920×1080, 1280×960, 1280×720)                                                                 |
| <b>Sub stream</b>           | 30fps (704 × 480, 640 × 480, 352 × 240)<br>25fps (704 × 576, 640 × 480, 352 × 288)                                                                                                         |
| <b>Third Stream</b>         | 30fps (1280 × 720, 704 × 480, 640 × 480, 352 × 240)<br>25fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288)                                                                                 |
| <b>Video compression</b>    | Smart H.265+ / H.265 / H.264+ / H.264 / MJPEG                                                                                                                                              |
| <b>H.264 Encoder</b>        | H.264 / AVC codec BP / MP / HP, level 5.1                                                                                                                                                  |
| <b>H.265 Encoder</b>        | H.265 / HEVC codec MP, level 5.0                                                                                                                                                           |
| <b>Video bit rate</b>       | 64Kbps ~ 16Mbps                                                                                                                                                                            |
| <b>Audio Compression</b>    | G.711 A / U                                                                                                                                                                                |
| <b>Audio bit rate</b>       | 64Kbps                                                                                                                                                                                     |
| <b>Protocols</b>            | HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP,DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE                                                           |
| <b>User / Host</b>          | Up to 16 Users, 3 Levels: Administrator, Advanced User and Normal User                                                                                                                     |
| <b>Security Measures</b>    | User authentication (ID and PW), Host authentication (MAC address), HTTPS encryption, IEEE802.1x Port-based Network Access Control, IP Address Filtering                                   |
| <b>Basic Event</b>          | Motion Detection, Video tampering Alarm, Exception (Network Disconnected, IP address conflict, SD full, SD error)                                                                          |
| <b>Face Detection</b>       | Max 15 Human Faces per Scene, Support Face Capture, Tracking, Comparison, Edge Storage                                                                                                     |
| <b>Road traffic</b>         | Vehicle Detecting and Tracking, etc.                                                                                                                                                       |
| <b>Smart Detection</b>      | Tripwire, Bi-directional Tripwire, Intrusion Detection, Region Entrance / Exit Detection                                                                                                   |
| <b>Smart Tracking</b>       | Vehicle Human Detecting and Tracking                                                                                                                                                       |
| <b>Active Deterrence</b>    | Flashes Ultra Bright White Light [up to 100'] and Emits Predefined / Custom Audio Warnings within a Given Area. Supports 10 Voice / Audio Clips [Alarm Range <100', Voice Recording <25']. |
| <b>Bi-Directional Audio</b> | Two-Way Talk Support                                                                                                                                                                       |
| <b>Ext. Audio Interface</b> | 1-ch audio input(mic in), 2.0-2.4Vp-p,1kΩ±10%, 1-ch audio output (line out), line level, impedance:600 Ω                                                                                   |

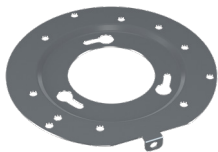
**[PRELIMINARY] DETAILED SPECIFICATIONS**

|                                      |                                                                                                                                                                      |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Built-in Speaker</b>              | 4Ω, 2.5Watt. Rotation with Camera Lens Direction, Audible up to 95ft (30m) Distance                                                                                  |
| <b>Built-in Mic</b>                  | 1 CH, Rotation with Camera Lens Direction, up to 26ft (8m) Distance Voice Recordable                                                                                 |
| <b>Audio Device Switch</b>           | Default Built-in Speaker and Mic, Manually Switch to External                                                                                                        |
| <b>Alarm Interface</b>               | 1 CH Alarm Input (Dry contact), 1 CH Alarm Output                                                                                                                    |
| <b>Alarm Linkage</b>                 | Alarm Actions, such as Preset, Cruise, Trace, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP / Memory Card, Send Email, etc. |
| <b>Network Interface</b>             | 1 RJ45 10M/100M Adaptive Ethernet (Supports PoE+ )                                                                                                                   |
| <b>Storage Slot</b>                  | Support MicroSD / TF card, up to 256GB                                                                                                                               |
| <b>Serial interface [RS485/232]</b>  | No                                                                                                                                                                   |
| <b>Auxiliary Video Out - CVBS</b>    | No                                                                                                                                                                   |
| <b>Reset button</b>                  | Yes                                                                                                                                                                  |
| <b>Heat and Fan</b>                  | Built-in Temperature Sensor, Auto Shut-down due to Over-heating, Auto-warming at Cold Start. No built-in fan.                                                        |
| <b>Water Management</b>              | Dust and Water-Resistant Coating for Lens Cover                                                                                                                      |
| <b>API</b>                           | ONVIF, support SDK and Third-Party Management Platform                                                                                                               |
| <b>Client</b>                        | Transcendent VMS, and the third-party client, Free iOS and Android App Included                                                                                      |
| <b>Web Browser</b>                   | IE8-11 Edge in IE mode                                                                                                                                               |
| <b>Languages</b>                     | English, Italian, Portuguese, Polish, Spanish, Chinese                                                                                                               |
| <b>Power</b>                         | DC12V±20%, 3000mA, PoE+ (802.3.at), max 16.2 Watts in Daylight, 20.2 Watts at night (LED+ Speaker on + PT Rotation)                                                  |
| <b>Working condition</b>             | -40°F ~ 158°F (-40°C ~ 70°C) IR off, -40°F ~ 140°F IR on, Cold start -13°F (1 hr waiting period), ≤90%RH                                                             |
| <b>Storage condition</b>             | -40°F ~ 158°F (-40°C ~ 70°C), ≤ 95% RH                                                                                                                               |
| <b>Protection</b>                    | 6000V Lightning Protection, Surge Protection and Voltage Transient Protection                                                                                        |
| <b>Shield Material</b>               | Main Body: Aluminum Alloy (ADC12), Accents: Polymer (Glass Fiber and Plastic)                                                                                        |
| <b>Dimensions Dia x Height</b>       | 5.12" × 6.40" (130mm × 162.5mm)                                                                                                                                      |
| <b>Weight (NET, GROSS)</b>           | 2.654lb (1.2kg), 3.6lb (1.7kg)                                                                                                                                       |
| <b>Ingress and Impact Protection</b> | IP66 + IK10 (Including Lens Window)                                                                                                                                  |
| <b>Certification</b>                 | ROHS, CE, FC, UKCA, 3C                                                                                                                                               |

## DIMENSIONS



## MOUNTS AND ADAPTERS



**VT-TPTZ4AD-4M  
BRACKET**  
Mounting Adaptor  
[INCLUDED]



**VT-TWMT-4-W**  
Optional Wall  
Mount - White



**VT-TJB-F1**  
Optional Junction  
Box for Cable  
Management - White



**VT-TPDM-F**  
Optional 10"  
Pedestal / Pendant  
Mount - White



**VT-TWM-F**  
Optional 10" Wall  
Mount - White



**VT-TPLMT-W**  
Transcendent  
Universal Pole  
Mount Adapter -  
White  
(reqs. VT-TWM-F)



**VT-TCNMT-W**  
Transcendent  
Universal Corner  
Mount Adapter - White  
(reqs. VT-TWM-F)



## 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



## 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!