



VT-TPTZ25HRAN-4PNL Transcendent Gen. IV 4 MegaPixel 25x IP PTZ with A.I.

QUICK START GUIDE



**Shown with wall mount
VT-TPT23HR-WM
[SOLD SEPARATELY]*

FEATURES

- 1/2.7" BSI and NIS (Backside-Illuminated and Near-Infrared Sensing)
 - 4 MegaPixel Progressive Scan CMOS STARLIGHT Sensor
 - Up to 4 MegaPixel (2560 x 1440) Max Resolution @ 30fps
 - Ultra High-Speed Pan / Tilt / Zoom with 25x Optical Zoom Lens
 - 3.6s Zoom Speed (Optical, Wide-Tele), F1.65~F3.8 Aperture Range
 - Smart IR with up to 525' (160m) 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
 - 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
 - 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 or PoE+ (802.3.at, class 3)
- *12VDC 3Amps Power Supply Included, **PoE Injector Required for PoE Power: VT-POE60 / VT-POE95 [see pg. 13]*
- Reset Button, Heater, Fan, Water Removal with Quick Spinning
 - 1 RJ45 10M/100M Adaptive Ethernet (Supports PoE 802.3.at)
 - Wall Mount, Pendant Mount, Semi-Flush Mount, Corner Mount Adapter and Pole Mount Adapter Sold Separately [see pg. 13]
 - 3-Year Warranty

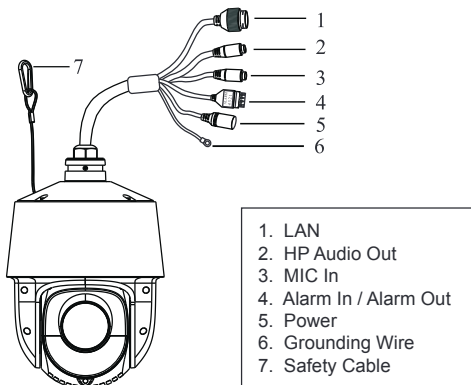
**Please research local, state and federal laws regarding the implementation of audio surveillance*



PLEASE NOTE:

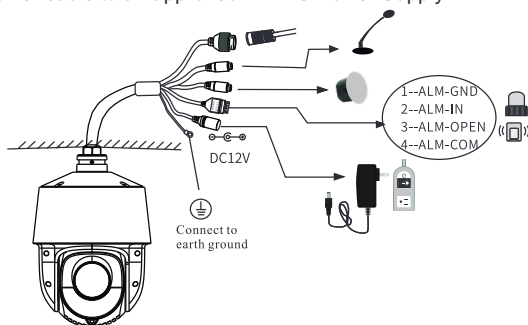
Complete User Guide, Software, Tools, and Updates are available online. Scan the QR Code or visit:
<http://www.vitekccv.com/Downloads>

Overview

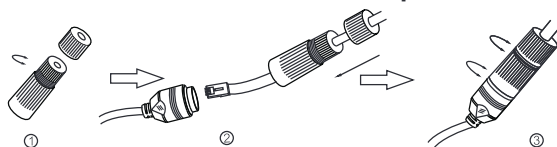


Cable Connections

First connect the Weather Resistant Cap to an Ethernet patch cable, then connect cameras' ethernet adaptor. If not powering the camera with PoE+, also connect the power cable to an approved 12VDC Power Supply.



Weather Resistant Network Coupler

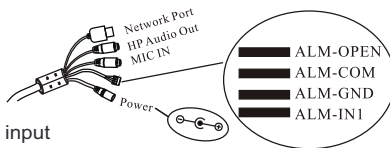


1. Loosen the nut from the Weather Resistant Network Coupler.
2. Run ethernet cable through coupler, then attach a RJ-45 connector.
3. Tighten the nut and coupler for a weather resistant seal.

Alarm Connections

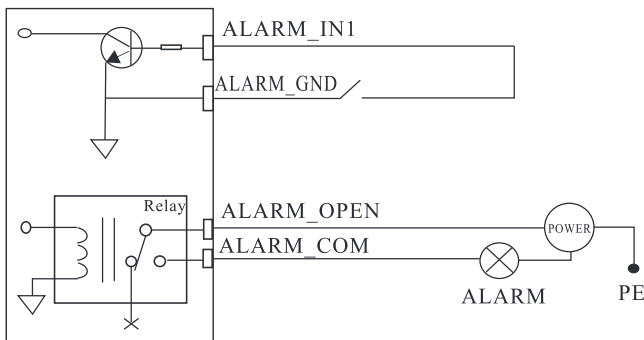
1. Alarm Input

- There is one independent alarm input port (ALM-IN1), and one grounding port (ALM-GND).
- Alarm input (NO type): Connect DC5V~DC12V voltage between the alarm input port (ALM-IN1) and the grounding port (ALM-GND).
- Alarm input (NC type): Disconnect the voltage between the alarm input port (ALM-IN1) and the grounding port (ALM-GND)



2. Alarm Output

- Supports 1CH alarm output including OPEN, COM connections.
- Alarm output: One passive switch for a user to connect alarm devices: the alarm output state will be on / off according to your users' setting.



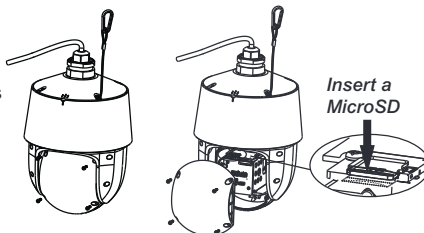
Installation

Before beginning, make sure that the wall or ceiling is strong enough to withstand the weight of the camera, and that the power is off. *Wall mounting instructions are below, followed by ceiling mounting and semi-flush mounting.

MicroSD Card

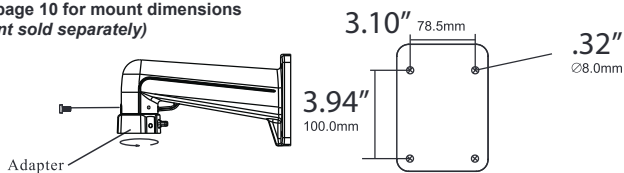
Installation

- Loosen the cover's 4 screws and remove it.
- Insert a microSD card as indicated (right) and re-install the cover.



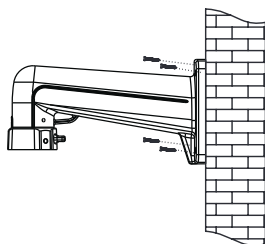
Installation Using Wall Mount VT-TPT23HR-WM

*see page 10 for mount dimensions
(mount sold separately)

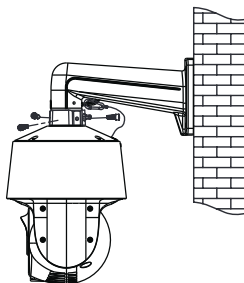


1. Fasten the adapter to the bracket.

2. Drill the screw holes in the wall according to the template. Then insert the plastic plugs into the holes.

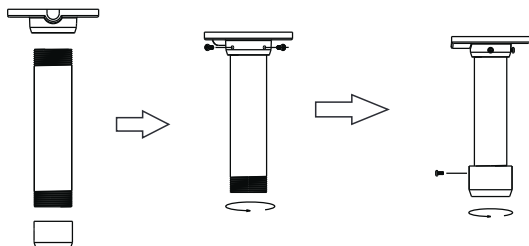


3. Attach the bracket to the wall with four screws.

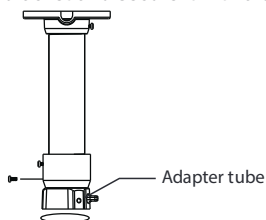


4. Hook the safety wire to the bracket. Then connect the cables. After that, attach the speed dome to the bracket with the screws.

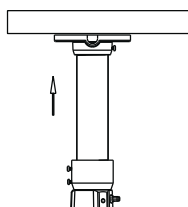
1. Install the ceiling mount according to the following diagram:



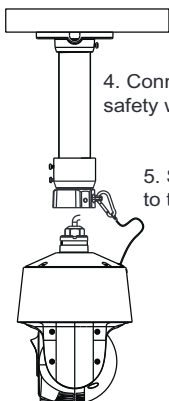
2. Mount the adapter tube to the bracket and secure it with a screw.



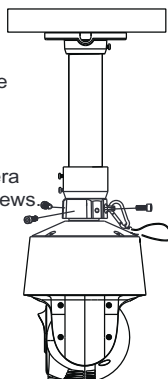
3. Secure the pendent mounting bracket to the ceiling.



4. Connect cables, then hook the safety wire to the adapter stem.



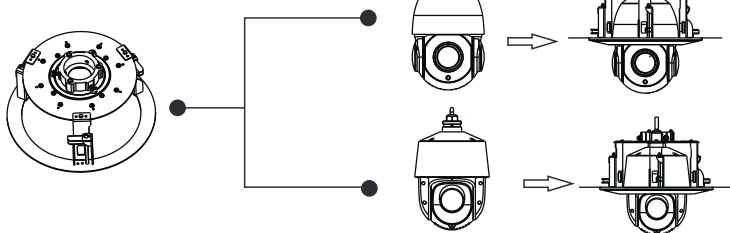
5. Securely attach the camera to the adapter stem with screws.



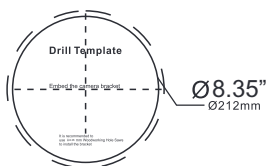
Installation Using Semi-Flush Ceiling Mount VT-TPT20HR-FM

*see page 10 for mount dimensions (mount sold separately)

*The following illustrations are for demonstration purposes only, and depictions of the PTZ camera used as an example will differ from the actual camera.

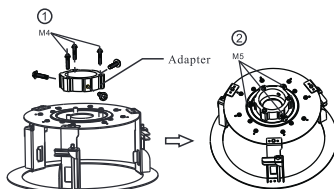


1



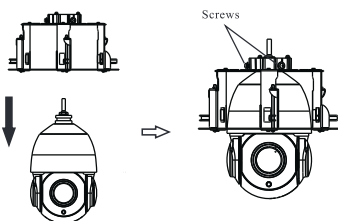
Attach the drill template to the ceiling where you want to install the speed dome. Then cut a hole according to the drill template. Note that +2mm of the circle diameter is allowed.

2



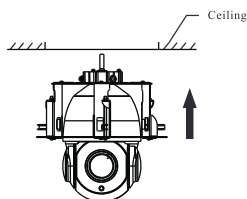
- ① Attach adapter to the in-ceiling mounting bracket with the screws (M4) provided.
- ② Insert the screws (M5) provided into the side holes of the adapter, but do not tighten them as shown above.

3



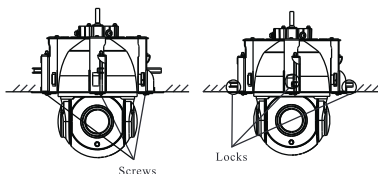
Place the in-ceiling bracket on the speed dome according to the direction of the arrow as shown above. Then tighten the screws on the adapter to fix the bracket and the speed dome.

4



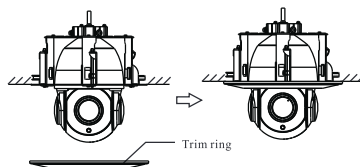
Route the cables Through the ceiling and connect the cables. Then push the speed dome into the mounting hole in the ceiling.

5



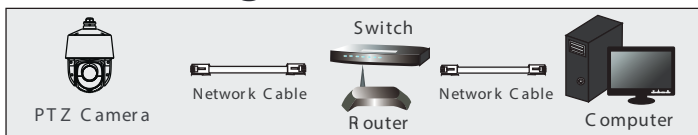
Tighten the lock screws with the screwdriver and the locks will automatically rotate outwards to secure the speed dome to the ceiling.

6



Install the trim ring.

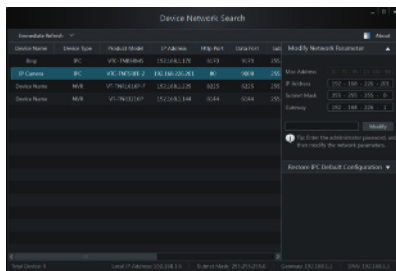
LAN Configuration



The camera can be accessed on the local network either using the IP-Tool or directly in a web browser.

Accessing the Camera Using the IP-Tool

1. Make sure the camera and PC are connected to the LAN.
2. Locate the IP-Tool installer at www.vitekctv.com/Downloads/Software/Transcendent-IPTool_v2.0.2.zip, then install on the PC. Open the installed application.



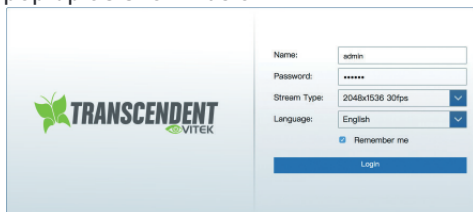
3. Modify the IP address. The default IP address is 192.168.226.201. Click the information of the camera listed in the above table to show the network information on the right side. Modify the IP address and gateway of the camera and make sure its network address is in the same local network segment as the computer's. Please modify the IP address of your device according to the practical situation.

For example, the IP address of your computer is 192.168.13.4. So the IP address of the camera shall be changed to 192.168.13.X. After modification, please input the password of the administrator and click "Modify" button to modify the setting.

Mac Address: 8C:7C:45:13:0D:98
IP Address: 192.168.226.201
Subnet Mask: 255.255.255.0
Gateway: 192.168.226.1
Modify

** Default admin password: "123456".

4. Double-click the IP address and then the system will pop up the web browser to connect IP-CAM. Edge in IE mode / IE browser will download the Active X. control. After downloading, a login window will pop up as shown below:



Input the user name and password to log in.
Default user name: admin / Default password: 123456.

Directly Access Through a Web Browser

The default network settings are as shown below:

IP address: 192.168.226.201 HTTP: 80

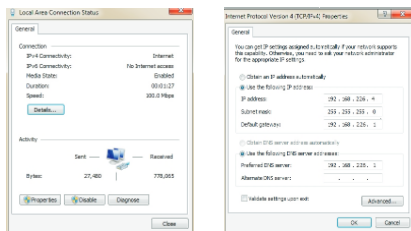
Subnet Mask: 255.255.255.0 Data Port: 9008

Gateway: 192.168.226.1

You may use the above default settings when you log in the camera for the first time.

1. Manually set the IP address of the PC. The network segment should be the same as the default settings of IP-CAM. Open the network and share center. Click “Local Area Connection” to pop up the following window.

Select “Properties” and then select Internet protocol according to the actual situation (for example: IPV4). Next, click “Properties” button to set the network of the PC.



2. Open Edge in IE mode / IE browser and input the default address of IP-CAM and confirm. Edge in IE mode / IE browser will download Active X control.
3. After downloading Active X control, the login dialog box will pop up.
4. Input the default username and password and then enter to view.

WAN Configuration

Access the camera by the router or virtual server for example.

1. Make sure the camera is connected to the LAN; Then log into the camera via LAN and go to System Config→Network Config→Port menu to set up the port number.
2. Enter System Config→Network Config→IP Address menu to modify the IP address.

Port Server DDNS SNMP 802.1X RTSP UPn

HTTP Port	80
HTTPS Port	443
Data Port	9008
RTSP Port	554

Save

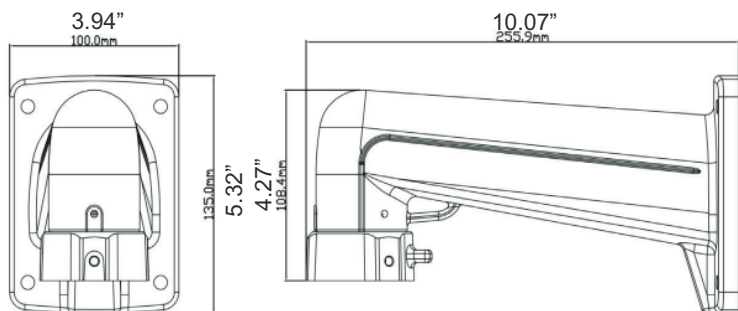
3. Go to the router's management interface through IE browser to forward the IP address and port of IP-CAM in the "Virtual Server".

Port Range					
Application	Start	End	Protocol	IP Address	Enable
1	9008	to 9008	Both	192.168.6.6	☒
2	80	to 81	Both	192.168.6.6	☒
3	10000	to 10001	Both	192.168.6.166	☐
4	21000	to 21001	Both	192.168.6.156	☐
5	7777	to 7778	Both	192.168.6.206	☐
6	1029	to 1030	Both	192.168.6.207	☐

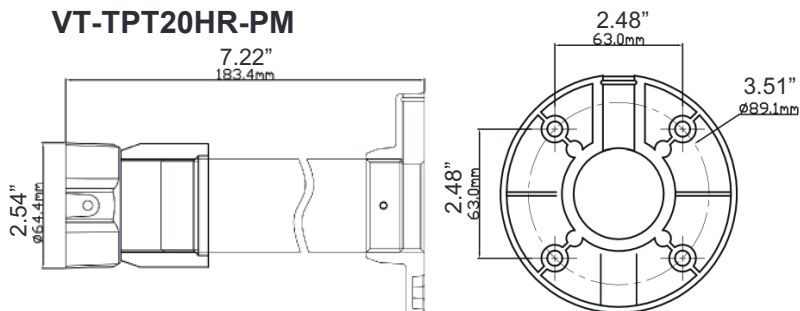
4. Open the web browser and input its WAN IP and HTTP port to access the IP-CAM.

Installation Mount Dimensions

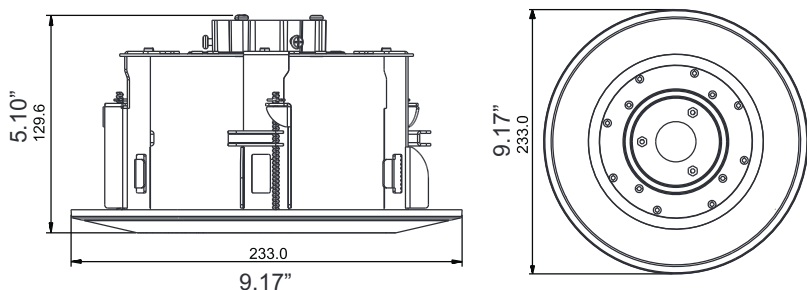
VT-TPT23HR-WM



VT-TPT20HR-PM



VT-TPT20HR-FM



DETAILED SPECIFICATIONS

Image Sensor	1/2.7" BSI (Backside-Illuminated) and NRI (Near-Infrared Sensing) Progressive Scan STARLIGHT CMOS Sensor
Pixel Size	2.0um
Effective Pixels	2884(H) × 1624(V)
Resolution	4.0 MegaPixel (2560) 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	60Hz (NTSC): 1/30s ~ 1/30,000s, 50Hz (PAL): 1/25s ~ 1/25,000s
White Balance	Auto / Manual / Indoor / Outdoor
Day / Night	True Day/Night via ICR Cut Filter + Schedule [Auto/Manual Gain Control]
Iris Control	Auto / Manual
SNR	≥52dB
DNR	XD-DNR (3D-DNR / 2D-DNR) - Auto/Manual
WDR	True WDR (120dB)
IR Type / Distance	Smart IR - Up to 525' IR Range (160M)
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	Auto DC-IRIS, 16 Stops
IR Cut type	Removable IR Cut filter
D.O.R.I. (US)	Detect (8px/ft): 7874', Observe (19px/ft): 3124', Recognize (38px/ft): 1575', Identify (76px/ft): 787'
D.O.R.I. (Metric)	Detect (25px/M): 2400M, Observe (63px/M): 952M, Recognize (125px/M): 480M, Identify (250px/M): 240M
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	2560x1440 (16:9 Aspect Ratio)



DETAILED SPECIFICATIONS CONT'D.

Main Stream	30fps: 2560×1440, 1920×1080, 1280×960, 1280×720
Sub Stream / Third Stream	Sub: 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240) / Third: 30fps @ 1920×1080 (1080p) and Lower
Video Compression (Standards)	H.265+/H.265/H.264+/H.264/MJPEG (H.265: H.265 / HEVC Codec MP, Level 5.0, H.264: H.264/AVC codec BP/MP/HP, Level 5.1)
Video Bit Rate	64Kbps to 8Mbps
Audio Compression / Bit Rate	G.711A/U / 64Kbps
Deep Learning Engine	Supports Face Recognition (FR) up to 15 Human Faces / Sec (max), Human/Vehicle Detection
Smart Auto Tracking	Auto Tracking (supports tracking specified target types such as human and vehicle), Manual Tracking
Basic Event Detection	Motion detection, Video Tampering, Exception (Network Disconnected, IP Address Conflict, SD Card Full / Error)
Smart Event Detection	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
Gen. IV Advanced Analytics	Face Detection (15 faces simultaneously), Detect, Track, Capture + Vehicle / Non Vehicle Detection & Tracking
Protocols	HTTP, HTTPS, IPV4/IPV6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, DHCP, PPPoE
Audio Interface	1 Audio Input (MIC in), 1 Audio Output,* Line Level, Impedance, 600Ω
Alarm Interface	1 Alarm Input (Dry Contact); 1 Alarm Output
Alarm Linkage	Alarm Actions, Including Preset, Cruise, Track, Memory Card Video Record, Trigger Recording, Upload to FTP/Memory, Card, Send Email
Live View Connections	Up to 6 Simultaneous Live View Connections
User/Host	Up to 16 users, 3 levels: Administrator, Advanced and Normal Users
Security Measures	User Authentication (ID and PW), Host authentication (MAC address); HTTPS encryption,, IEEE802.1x port-based net account control; IP address filtering
Web Browser	Internet Explorer (IE) - Plug-in Required, Edge in IE Mode
API	ONVIF, Third-Party Integration
CVBS (BNC), RS485	NA
On-Board Storage	Built-in microSD/SDHC/SDXC card slot, up to 256GB
Network Interface	1 RJ45 10M/100M Adaptive Ethernet (Support PoE+ 802.3.at)
Thermal / Weather Management	Internal Heater and Fan + Quick Spin Water Removal
Reset Button	YES
Working Environment	-40°F~140°F (-40°C~60°C), 90% RH [STORAGE CONDITIONS: -40°F~158°F (-40°C~70°C), 95% RH]
Cold Start	-22F / -30°C (30 Minutes Waiting Time), 90% RH
Weather / Impact / Protection	IP66 + IK10 (Excl. Glass Window), 6000V (Lightning, Surge, and Voltage Transient Protection)
Power	12VDC @ 3amps, PoE+ (23W with IR on, PTZ on) *Power Supply Included, **PoE Injector Req'd for PoE Power - see following page
Dimensions and Weight	6.81" × 10.51" (173mm × 268mm), NET: 4.85lb (2.2kg) / SHIPPING: 7.50lb (3.4kg)

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



***INCLUDED* POWER SUPPLY**

12VDC 3amp Power Supply



ACCESSORIES AVAILABLE FOR VT-TPTZ25HRAN-4PNL



MOUNTS [SOLD SEPARATELY]



VT-TPT20HR-FM Semi-flush Mount



VT-TPT23HR-WM Optional Universal Wall Mount for Transcendent IP PTZs



VT-TPT20HR-PM Optional Ceiling/ Pedestal Mount for Transcendent IP PTZs



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



POE INJECTORS [SOLD SEPARATELY]

VT-POE60 60 Watt POE Mid-Span Injector, 4-Pair Compliant

VT-POE95 95 Watt POE Mid-Span Injector, 4-Pair Compliant





ALSO CONSIDER THESE OTHER GREAT TRANSCENDENT IP PRODUCTS!

***VITEK Network Video Recorders Supporting up to
12MP Resolution & Real Time Video!***

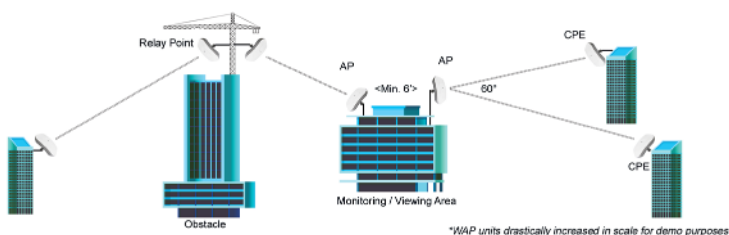


***Pair with VITEK Transcendent Series NDA A Compliant
Network Recorders: VT-TNR818PFN, VT-TNR1646PFN,
and VT-TNR3216PFN with Built-in PoE and Gen IV.
Advanced A.I. including Face Detection, Target
Counting, and Other Fully Programmable Analytics.***



Vitek Wireless Access Points to Reduce Costly Cable Installation!

VT-WAP1150 and VT-WAP2150 High Speed 5.8GHz DIP AP / CPE Wireless Bridge w/ 8MB Storage, 64MB RAM, 150Mbps transmission, and Point-to-Multi-Point (P2MP) Topology



With high speed transmission of 150Mbps and a wireless range of **3000ft.** (VT-WAP1150) and **1.25 miles** (VT-WAP2150) these products eliminate the need for expensive and troublesome long-distance cables in areas where CCTV monitoring and rigorous surveillance take place. These small, lightweight and durable units are easy to install and easy to use with an innovative and straightforward 10-button plug-and-play dip switch that facilitates the creation of a robust wireless network without a computer. Set-up can be simply configured for point-to-point or point-to-multipoint topology depending on the application, with up to 128 IP group configurations!



LIMITED PRODUCT WARRANTY

VITEK products carry a three (3) year limited warranty. VITEK warrants to the purchaser that products manufactured by VITEK are free of any rightful claim of infringement or the like, and when used in the manner intended, will be free of defects in materials and workmanship for a period of three (3) years, or as otherwise stated above, from the date of purchase by the end user. This warranty is nontransferable and extends only to the original buyer or end user customer of a VITEK Authorized Reseller.

The product must have been used only for its intended purpose, and not been subjected to damage by misuse, willful or accidental damage, caused by excessive voltage or lightning.

The product must not have been tampered with in any way or the guarantee will be considered null and void.

This guarantee does not affect your statutory rights.

Contact your local VITEK Reseller should servicing become necessary.

CLASS A DIGITAL DEVICE (INDUSTRIAL & COMMERCIAL ENVIRONMENT)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to CE and FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct



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WWW.VITEKCCTV.COM

Version 1.0
Nov 2022