



VT-TPTZ4AD-4M Transcendent 4 Megapixel "Mini" IP PTZ Camera

QUICK START GUIDE



Shown with Optional Wall Mount VT-TWMT-4 [left] and J-Box VT-TJB-F1 [right], Sold Separately. See pg 12 for more mounting options.



FEATURES

- 1/2.7" Progressive Scan CMOS STARLIGHT Sensor with BSI and NIR Technology
Backside Illumination (BSI) Technology improves performance in low light, and Near-Infrared (NIR) Technology produces higher quality images and improved distant object capture in all light conditions
- Up to 4 MegaPixel (2560x1440) Max Resolution @ 30fps
- Hi-Speed Pan/Tilt/Zoom w/ 4xOptical Zoom Lens (2.8-12mm Focal Length)
- 1.6s Zoom Speed, 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
- 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
- Active Deterrence: Flashes Ultra Bright White Light [100' Range] and Emits Predefined / Custom Audio Warning
- True 120dB WDR (Wide Dynamic Range)
- 0~355° Pan Range, Speed: 0.1~80°/s, 80°/s Preset
- 1 Ch. Audio In+Out + Built-in Mic + Speaker*, Alarm In/Out
- True Day/Night w/ ICR Cut Filter (Auto/Manual Gain Control)
- Built-in MicroSD Card Slot, [up to 256GB]
- IP66 Ingress Protection + IK10 Impact Rating
- 12VDC Power or PoE+ (802.3at, class 3),
- Built-in Temp Sensor [Triggers Auto Shut-Down], Heater
- Optional J-Box, Pendant, Wall Mounts and Other Accessories Available - See pg 12
- 3-Year Warranty

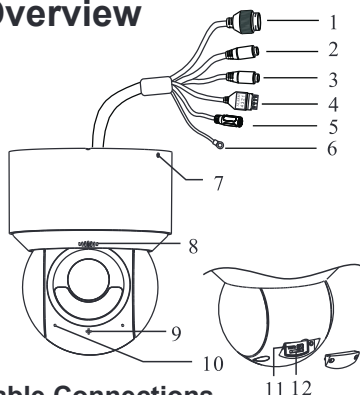
**Please research local, state and federal laws regarding the implementation of audio surveillance*



PLEASE NOTE:

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

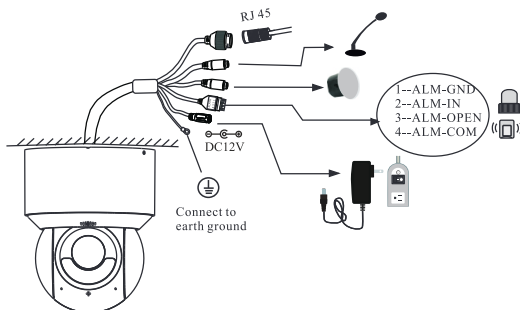
Overview



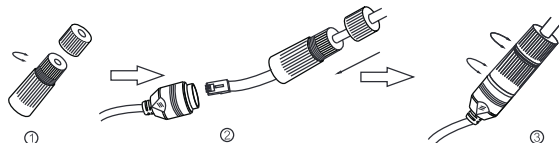
- 1 Ethernet connector (PoE+)
- 2 MIC-Audio input (3.5mm)
- 3 HP-Audio output (3.5mm)
- 4 Alarm input/output
- 5 DC12V Power jack
- 6 Ground
- 7 Lock Screw
- 8 Loudspeaker
- 9 Light Sensor
- 10 Microphone
- 11 Reset* Press and Hold for 5s to restore factory settings
- 12 Memory Card Slot

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

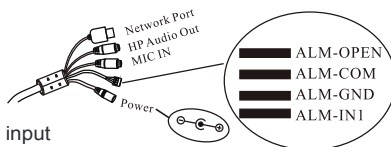


1. Loosen the nut from the Weather Resistant Network Coupler.
2. Run ethernet cable through coupler, then attach a RJ-45 connector.
3. Tighten the nut and coupler for a weather resistant seal.

Alarm Connections

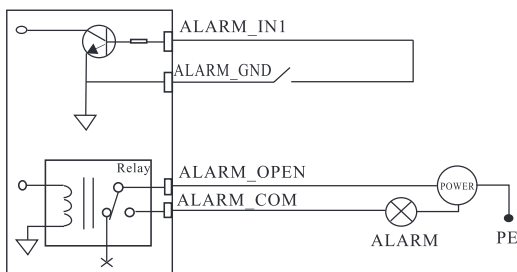
1. Alarm Input

- 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)



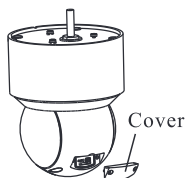
2. Alarm Output

- 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.

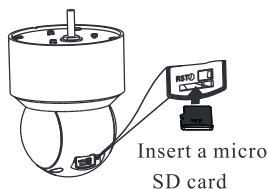


Installation

Before beginning, make sure that the wall or ceiling is strong enough to withstand at least three times the weight of the camera and that the unit is powered off during installation.

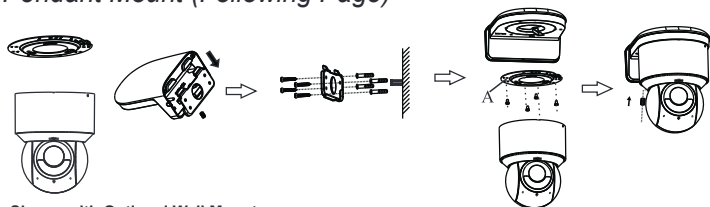


- Loosen the two screws of the cover and then remove the cover.

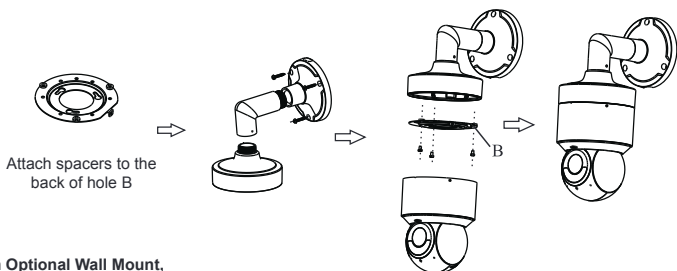


- Insert a micro SD card as indicated above and then install the cover back.

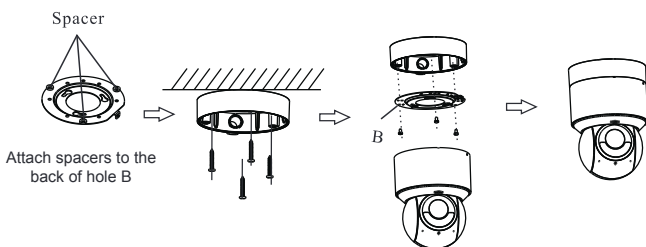
*Mounting with a Wall Mounts / Junction Box /
Pendant Mount (Following Page)*



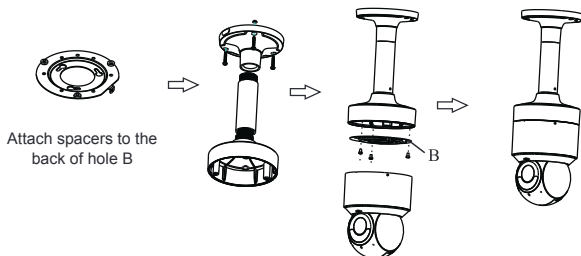
Shown with Optional Wall Mount,
VT-TWMT-4



Shown with Optional Wall Mount,
VT-TWM-F



Shown with Optional J-Box,
VT-TJB-F1

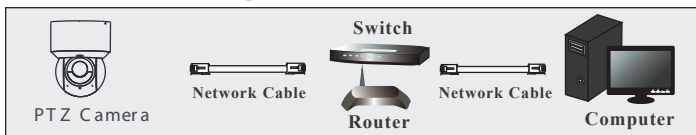


Shown with Optional Pedestal / Pendant Mount, VT-TPDM-F-W

Preset Descriptions

Call Preset	Call No. 90 Preset	Run trace 1
	Call No. 91 Preset	Run cruise 1
	Call No. 92 Preset	Run cruise 2
	Call No. 93 Preset	Run cruise 3
	Call No. 94 Preset	Run cruise 4
	Call No. 97 Preset	Enable random scan
	Call No. 99 Preset	Enable auto scan
Save Preset	Save No. 91 Preset	Save the random scan start point
	Save No. 92 Preset	Save the left scan endpoint
	Save No. 93 Preset	Save the right scan endpoint

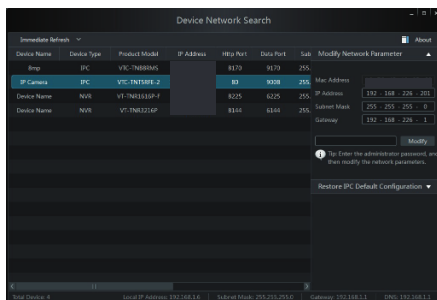
LAN Configuration



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

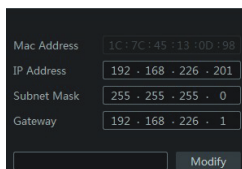
Accessing the Camera Using the IP-Tool

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



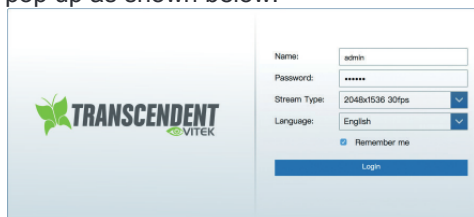
3. Modify the IP address. The default IP address is 192.168.226.201. Click the information of the camera listed in the above table to show the network information on the right side. Modify the IP address and gateway of the camera and make sure its network address is in the same local network segment 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 should be changed to 192.168.13.X. After modifying, please input the password of the administrator and click "Modify" button to modify the setting.



** 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:



The login window features the Transcendent Vitek logo on the left. On the right, there is a form with the following fields: 'Name' with 'admin' entered, 'Password' with '123456' entered, 'Stream Type' set to '2048x1536 30fps', and 'Language' set to 'English'. There is a 'Remember me' checkbox and a 'Login' button at the bottom.

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

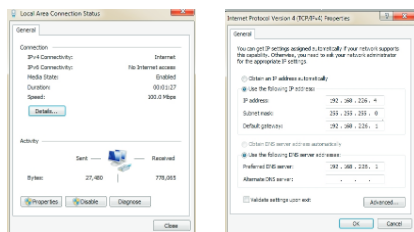
Subnet Mask: 255.255.255.0 Data Port: 9008

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 an Active X control.
3. After downloading the Active X control, the login dialog box will appear.
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	9008	Both	192.168.6.6	☒	
2	80	81	Both	192.168.6.6	☒	
3	10000	10001	Both	192.168.6.166	☐	
4	21000	21001	Both	192.168.6.156	☐	
5	7777	7778	Both	192.168.6.206	☐	
6	1029	1030	Both	192.168.6.207	☐	

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

DETAILED SPECIFICATIONS

Image sensor	1/2.7" Progressive Scan CMOS STARLIGHT Sensor with Backside Illuminated and Near Infrared Technology <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>	
Min. Illumination	Color: 0.01 Lux @ (F1.6 AGC ON), B/W: 0.002 Lux @ (F1.6 AGC ON), 0 Lux with IR	
Image Setting	Flip, Mirror, Saturation, Brightness, Contrast, Sharpness, AGC, and Auto White Balance adjusted by client	
Shutter Speed	60Hz: 1/30s~1/30,000s, 50Hz: 1/25s~1/25,000s,	
White Balance	Auto/Manual/Indoor/Outdoor	
Gain	Auto/Manual	
Day&Night	Auto/Manual	
Aperture control	N/A	
S/N Ratio	≥52dB	
3D DNR	Auto/Manual	
AE Enhancement	Backlight Control, Highlight Control, Wide Dynamic Range	
Privacy Mask	4 Programmable Privacy Masks	
Picture overlay	Logo / jpg can be overlaid on video (128x128 pixels), 24bits BMP format	
Font overlay	Max 15 Characters per Line, 8 Lines Max, White or Red Color	
Focus length	f=2.8-12mm Lens, 4x Optical	
Zoom Speed	About 1.6 Seconds (wide-tele)	
Field of View	Horizontal: 97°to 31°±5%, Vertical: 51°to 18°±5%, Diagonal: 115°to 36°±5% (wide-tele)	
Working distance	Wide: 0.3m ~ INF, tele: 0.5m ~ INF	
Aperture Range	F1.6~ F2.7 (wide-tele)	
DORI:	2.8mm:	12mm:
DETECT (25px/m),	223 ft (68m)	678.1 ft (206.7m)
OBSERVE (63px/m),	88.9ft (27.1m)	269.0 ft (82m)
RECOGNIZE (125px/m)	44.8ft(13.6m)	135.5 ft (41.3m)
IDENTIFY (250px/m)	22.3ft (6.8m)	68ft (20.7m)
Day / Night	True Day / Night by ICR	
Pan Range	0~355°	
Pan speed	Configurable, from 0.1~80°/s, Preset speed: 80°/s	
Tilt Range	From -5°to 90°	
Tilt Speed	Configurable, from 0.1°~ 60°/s, Preset speed: 60°/s	
Proportional Zoom	Yes	
Preset	300	
Cruise	8 cruises, up to 16 presets for each cruises	
Tracks	4 Tracks, Record Time 180 seconds (3 min) per Track	
Power off Memory	Yes	
Action Mode	Preset / Cruise / Trace / Auto Scan / Random Scan	
3D Positioning	Yes	



DETAILED SPECIFICATIONS CONT'D

PTZ Position Display	Yes
Schedule Task	Preset / Cruise / Trace / Random Scan / Boundary Scanning / Dome Reboot
IR Distance	Up to 165ft (50m)
IR	4pcs of IR Array into 2 Groups, Auto Switch with Zoom Ratio
Smart IR	Yes
White Light	2pcs of White LED Array
White Light Distance	Up to 100' (30m)
White light Mode	Flash Mode (2 x Brightness), Time Interval Adjustable
Max Resolution	2560x1440
Main stream	30fps (2560x1440, 2048x1536, 1920x1080, 1280x960, 1280x720) 25fps (2560x1440, 2048x1536, 1920x1080, 1280x960, 1280x720)
Sub stream	30fps (704 x 480, 640 x 480, 352 x 240) 25fps (704 x 576, 640 x 480, 352 x 288)
Third Stream	30fps (1280 x 720, 704 x 480, 640 x 480, 352 x 240) 25fps (1280 x 720, 704 x 576, 640 x 480, 352 x 288)
Video compression	Smart H.265+ / H.265 / H.264+ / H.264 / MJPEG
H.264 Encoder	H.264 / AVC codec BP / MP / HP, level 5.1
H.265 Encoder	H.265 / HEVC codec MP, level 5.0
Video bit rate	64Kbps ~ 16Mbps
Audio Compression	G.711 A / U
Audio bit rate	64Kbps
Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE
User / Host	Up to 16 Users, 3 Levels: Administrator, Advanced User and Normal User
Security Measures	User authentication (ID and PW), Host authentication (MAC address), HTTPS encryption, IEEE802.1x Port-based Network Access Control, IP Address Filtering
Basic Event	Motion Detection, Video tampering Alarm, Exception (Network Disconnected, IP address conflict, SD full, SD error)
Face Detection	Max 15 Human Faces per Scene, Support Face Capture, Tracking, Comparison, Edge Storage
Road traffic	Vehicle Detecting and Tracking, etc.
Smart Detection	Tripwire, Bi-directional Tripwire, Intrusion Detection, Region Entrance / Exit Detection
Smart Tracking	Vehicle Human Detecting and Tracking
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']
Bi-Directional Audio	Two-Way Talk Support
Ext. Audio Interface	1-ch audio input(mic in), 2.0-2.4Vp-p, 1kΩ±10%, 1-ch audio output (line out), line level, impedance:600 Ω,



DETAILED SPECIFICATIONS CONT'D

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

INCLUDED POWER SUPPLY

12VDC 3amp Power Supply



SUGGESTED RELATED PRODUCTS AND ACCESSORIES FOR VT-TPTZ4AD-4M



MOUNTS [SOLD SEPARATELY]



**VT-TPTZ4AD-4M
BRACKET**
Mounting Adaptor
(INCLUDED)



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



VT-TJBF1
Optional
Junction
Box for Cable
Management



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



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



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



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



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



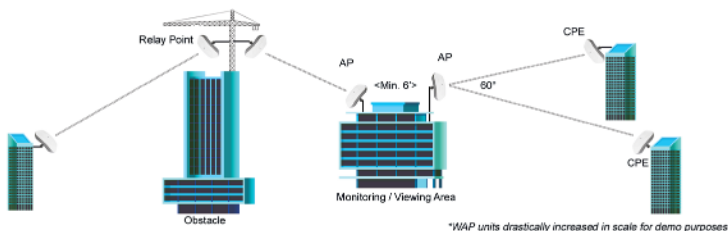
**Pair With Transcendent IP NVRs, HDA
DVRs, Bridge or Spire Series Recorders!**

*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 for
More!*



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!



VT-WAP1150



VT-WAP2150



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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