



VTC-TNB4LPRN-A
Transcendent Series
4 MegaPixel License Plate
Recognition WDR IP Motorized
Bullet Camera

QUICK START GUIDE



FEATURES:

- 1/1.8" 4 MegaPixel Progressive Scan CMOS Sensor
- Advanced Starlight Technology Offers Dramatically Higher Sensitivity to Light Producing Color Images in Very Dark & Night Scenes
- Up to 30fps live view @ 4 MegaPixel (2688 x 1520)
- 8~32mm @F1.6 Motorized Varifocal Lens
- Matrix IR (up to 325' IR Range)
- True Wide Dynamic Range (120dB)
- True Mechanical Day / Night function by ICR
- XD-DNR (3D & 2D-DNR) Noise Reduction
- Programmable Analytics: License Plate Recognition, Vehicle Type Detection, Exception
- 10,000 Vehicle Plate Database with SD Card Installed
- 0-75m/h (120km/h) Capture Speed (*Dependant on Installation*)
- Overlay Options: Time, Location, License Plate Information
- Triple Streaming: H.265+ / H.265 / H.264+ / H.264 / MJPEG
- 1 Ch. Audio In + 1 Ch. Audio Out*
- 1 Ch. Alarm In + 1 Ch. Alarm Out, 1 Ch. CVBS
- Supports Wiegand Protocol for Advanced Access Control Integrations
- Remote Viewing via VMS, Web Browsers, and iOS & Android Apps
- MicroSD Card Slot for Local Recording (256GB)
- IP67 Weather Resistance
- Wall Mount Included, Optional Mounts: Junction Boxes VT-TJB01 / VT-TJB020
[See Additional Mounting Options on pg. 12]
- 12VDC / 24VAC [Dual Voltage] & PoE (Power over Ethernet) Operation Options
[See Power Supply Options on pg. 13]
- 3-Year Warranty

**Please research local, state and federal laws regarding 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>

Components and Accessories



Camera



Quick start guide



4 tapping screws PA4×25
1 machine screw PWM3×5



Drill template



Allen Key

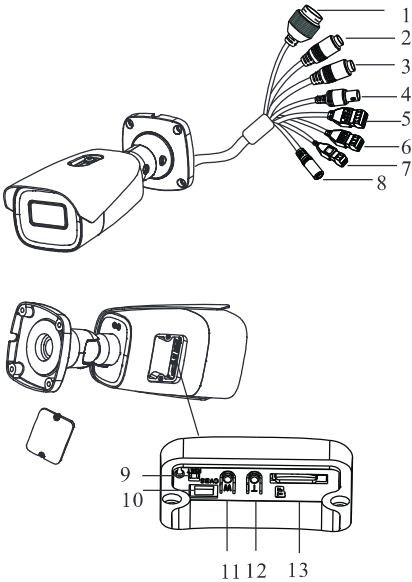


CVBS&DC
IN cables



Anchors × 4

Overview



- | | |
|----|----------------------|
| 1 | Ethernet Connector * |
| 2 | Audio Input (MIC) |
| 3 | Audio Output (HP) |
| 4 | CVBS Video Output |
| 5 | Alarm Input/Output |
| 6 | Wiegand interface |
| 7 | RS 485 |
| 8 | Power Connector ** |
| 9 | Reset*** |
| 10 | DC IN&CVBS Interface |
| 11 | Zoom - |
| 12 | Zoom + |
| 13 | Micro SD Card Slot |

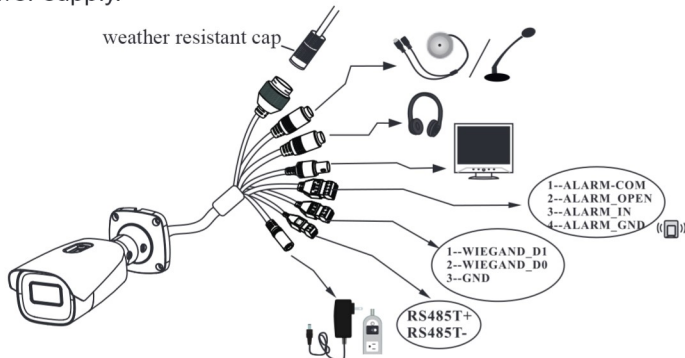
* The weather resistant security cap is necessary for outdoor installation.
* If PoE is used to power the camera, 12VDC/24VAC power supply is not required.

[SEE PG. 13 FOR LIST OF SUGGESTED POWER SUPPLIES FOR THIS MODEL]

* Press and hold the reset button for over 10 seconds to restore factory settings.

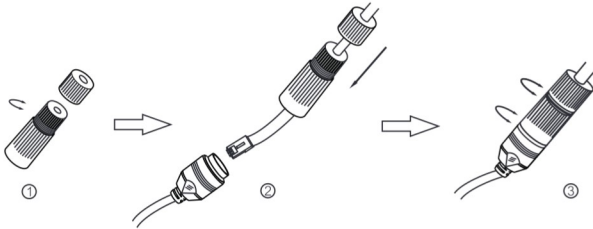
Cable Connections

First connect the weather resistant cap to an ethernet patch cable, then connect the cameras ethernet adaptor. If not powering the camera with PoE, also connect the power cable to an approved 12VDC power supply.



DC12V (some models may support DC12V/AC24V)

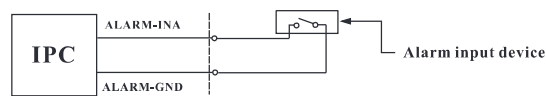
Weather Resistant Network Coupler



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.

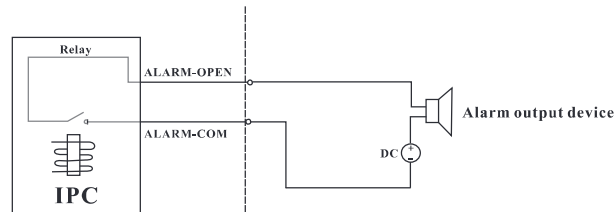
Connecting Alarm Input / Output

Alarm Input



Alarm Output

Max. Load of Alarm Output: 30VDC, 1A



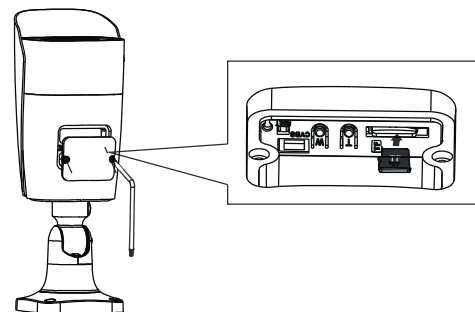
Wiegand Interface:



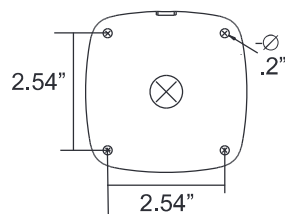
Installation

Before beginning installation, make sure that the wall or ceiling is strong enough to withstand 3 times the weight of the camera. The mounting steps are as follows:

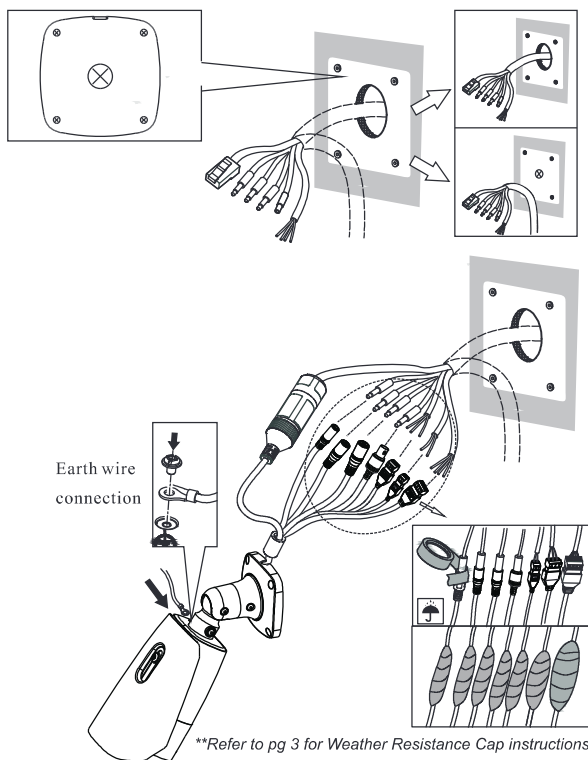
Install the MicroSD Card



1. Attach the drill template to the place where you want to install the camera, then drill 4 screw holes and 1 cable hole (if you want to route the cables through the mounting base) according to the drill template.

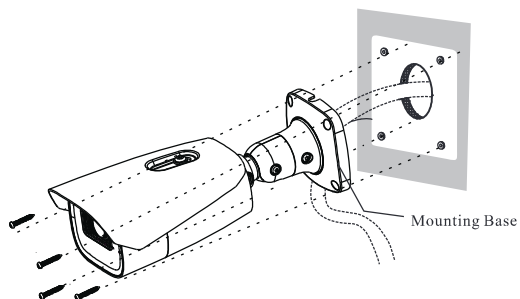


2. Route the cables and connect the power & video cables, use the rubber plug to fill the gap of the mounting base, then secure the mounting base to the ceiling or wall with screws.



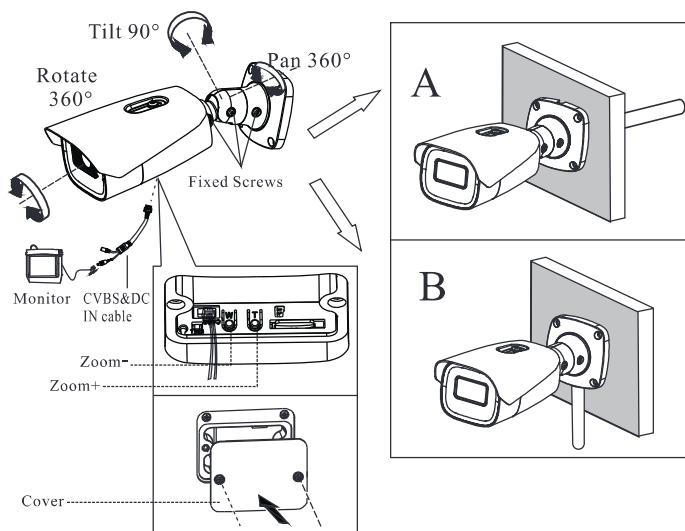
**Refer to pg 3 for Weather Resistance Cap instructions.

3. Loosen the screws to adjust the viewing angle of the camera. After that, tighten the screws. Before adjustment, view the image of the camera on a monitor.

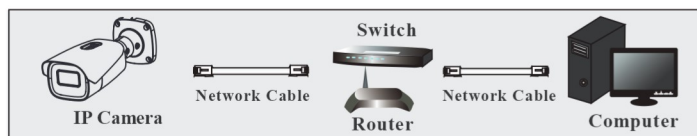


4. Press the T or W button to obtain an optimum image.

5. Finally, re-install the cover.



LAN Configuration

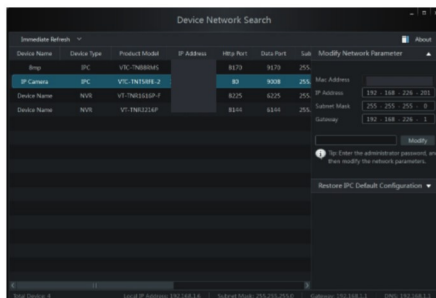


The camera can be accessed on the local network either using the IP-Tool or directly in a web browser.

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 https://vitekccctv.com/sdm_downloads/transcendent-ip-tool-v3-0/, 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.

Mac Address: 1C : 7C : 45 : 13 : 00 : 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 . IE browser will download the Active X control. After downloading, a login window will pop up as shown below:



The image shows a login window for Transcend Vitek. On the left is the Transcend Vitek logo. On the right is a form with the following fields: Name (with 'admin' entered), Password (with '*****' 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

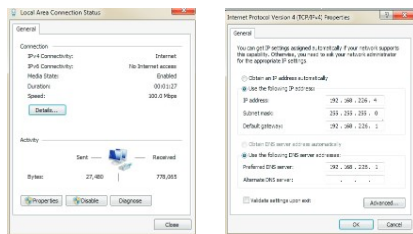
Subnet Mask: 255.255.255.0 Data Port: 9008

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 the IE Browser and input the default address of IP-CAM and confirm. The IE browser will download an Active X control.
3. After downloading the 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	UPr
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.
5. For additional setup, features and functions, please scan the QR code on the front page of this quick guide and download the complete manual.

DETAILED SPECIFICATIONS: VTC-TNB4LRPN-A



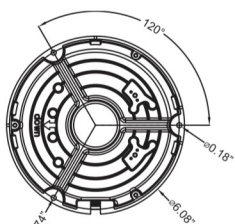
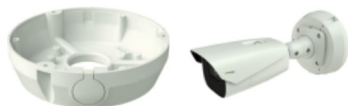
Image Sensor	1/1/8" 4.0 Megapixel Progressive Scan CMOS
Image Size	4 MegaPixel (2688 x 1520)
Electronic Shutter	Manual or Auto, Manual: 1 / 1 s ~ 1 / 100000s
Resolution	4MP(2688x1520), 2K (2560 x1440), 3MP(2304 x1296), 1080P(1920 x1080), 720P (1280 x720), D1, CIF
Min. Illumination	0.001 lux@F1.6, AGC ON, 0 lux with IR
Lens	8~32mm Mtrzd Varifocal @F1.6, motorized
FOV	Horizontal: 42°~16°; Vertical: 24°~9°; Diagonal: 49°~18°
Lens Mount	Integrated
Recommended ANPR	59.5'~155.5' (16-48M)
Other Features	BLC, HLC, Defog
WDR	120dB True WDR
DNR	XD DNR (3D-DNR / 2D-DNR)
S/N Ratio	>50Db
Angle Adjustment	Pan: 0°~360°, Tilt:0°~90°, Rotation: 0°~360°
IR	Matrix (2)
IR Range	Up to 325'
Video Compression	Main stream: H.265+ / H.265 / H.264+ / H.264 Sub stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG Third stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG
Main Stream	4MP/2K/3MP/1080P (60Hz:1 ~ 30fps; 50Hz: 1 ~ 25fps) HFR Mode: 1080P/720P (60Hz: 1~60fps; 50Hz: 1~50fps)
Sub Stream	720P/D1/CIF (60Hz:1 ~ 30fps, 50Hz: 1 ~ 25fps)
Third Stream	D1/CIF (60Hz:1 ~ 30fps, 50Hz: 1 ~ 25fps)
Bit Rate	64 Kbps ~ 8 Mbps
Bit Rate Type	VBR / CBR
Audio Compression	G.711A / G.711U
Image Settings	ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, Sharpness, Image Mirror, Image Flip, Noise Reduction - Image Settings Adjustable through Client Software or Web Browser
ROI	Each ROI to be configured separately
Network	100M RJ 45
Video Output	CVBS Output (BNC x 1)
Audio	1CH Audio Input, 1CH Audio Output* *Please research local, state and federal laws regarding the implementation of audio surveillance.

Storage	Built-in microSD Card Slot - up to 256GB, Network Remote Storage
Reset	YES
Alarm	1CH Alarm Input, 1CH Alarm Output
RS485	YES
Wiegand (26 bit)	Supports Wiegand Protocol for Advanced Access Control Integrations [In or Out]
Remote Viewing	VMS / Web Browser / Mobile (iOS/Android)
Supported Browsers	Internet Explorer, Chrome and Firefox with IE Tab, Edge in IE Mode
Online Connection	Support Simultaneous Monitoring (10 Users) + Multi-stream Real Time Transmission
Interface Protocol	ONVIF
Network Protocol	DP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTMP, RTCP, PPPoE, DDNS, SMTP, FTP, SNMP, HTTP, HTTP POST, 802.1x, UPnP, HTTPs, CoS
Smart Alarm	Motion Detection, Sensor Alarm, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnection
Intelligent Analytics	License Plate Recognition, Vehicle Type Detection, Video Exception Detection
General Functions	Watermark, Video Mask, Operational Diagnostic [Heartbeat], Corridor Mode
Security	Video Encryption, Firmware Encryption, HTTPs Encryption, Configuration Encryption, Illegal Login Lock, IP Address Filtering, 802.1x Authentication, Basic and Digest Authentication for HTTP/HTTPs
POE (Standard)	YES (IEEE802.3af)
Ingress Protection	IP67
LPR Snapshot	Overview and Cutout of Plate for Picture
License Plate Database	Whitelist up to 10,000 with SD Card Installed
OSD Features	Snapshot Time, Location, License Plate Information
Barrier Gate Control Mode	Camera or Platform control
Relay Output	1-ch relay output, supporting opening / closing / suspending of a barrier gate
Screen Display	Support connecting a screen through RS485 interface to display captured license plates
Capture Rate / LPR Accuracy	>99% in rec'd lighting / installation scenario / >99% Entrance / Exit (98% on Roadway)
Capture Speed Range	0-70m/h (0-120km/h) <i>*Dependant on Installation</i>
Power Supply	DC12V/AC24V/PoE
Power Consumption	<10W
Operating Environment	-22°F~140°F (-30°C ~ 60°C) Humidity: less than 95 % (non-condensing)
Dimensions	10.96" × 3.95" × 3.49" (278.3mm × 100.2mm × 88.7mm)
Weight Net (Shipping)	2.59lbs / 1176g (3.03lbs / 1376g)
Certificates	CE, FCC

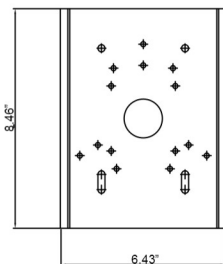


SUGGESTED ACCESSORIES AND RELATED PRODUCTS FOR VTC-TNB4LPRN-A

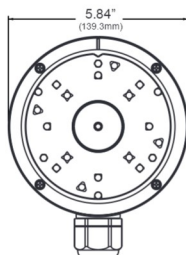
VT-TJB01
Optional Junction Box



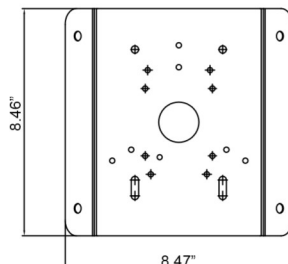
VT-TPLMT
Transcend Universal
Pole Mount (reqs. VT-TJB01 or VT-TJB020)



VT-TJB020
Optional Junction Box



VT-TCNMT
Transcend Universal
Corner Mount (reqs. VT-TJB01 or VT-TJB020)





SUGGESTED ACCESSORIES AND RELATED PRODUCTS FOR VTC-TNB4LRPN-A



Power Supplies for VTC-TNB4LRPN-A



VT-12VDC-2000S - Slim Case 12VDC Transformer 2 AMP - *UL Listed*

VT-24VAC/50 - 24VAC Linear Transformer 50VA - *UL Listed*

VT-1205A-D4B - 4 Output 12VDC Power Center w/Optional Backup Battery - 5 AMP - *UL Listed*

VT-1210A-D9B - 9 Output 12VDC Power Center w/Optional Backup Battery - 10 AMP - *UL Listed*

VT-1230A-D18 - 18 Output 12VDC Power Center - 30 AMP - *UL Listed*

VT-2410A-A9 - 9 Output 24VAC Power Center - 10 AMP - *UL Listed*

VT-2415A-A18 - 18 Output 24VAC Power Center - 15 AMP - *UL Listed*

PoE Injectors for VTC-TNB4LRPN-A



VT-POE60 - 60 Watt POE Mid-Span Injector, 4-Pair Compliant, IEEE802.3af/at Auto Detect, Distance up to 330'

VT-POE95 - 95 Watt POE Mid-Span Injector, 4-Pair Compliant, IEEE802.3af/at Auto Detect, Distance up to 330'



**SUGGESTED ACCESSORIES
AND RELATED PRODUCTS
FOR VTC-TNB4LPRN-A**

TRANSCENDENT NVRs!

***A Standalone Solution with Programmable
Analytic Support and NDAA Compliance!***



- ***Up to 12MP Recording***
- ***H.265S / H.265+ / H.265 / H.264 Video Compression***
- ***GEN IV Analytic Support Including License Plate Recognition, Face Detection, Target Counting, and More!***
- ***Available in 4, 8, and 16, 32, 64, and 128 Channels***
- ***Up to 320TB Depending on Model (20TB per HDD)***
- ***PoE Support Available (Model Dependent)***



**An Eye On
Innovation**

Also Consider Vitek NDAA Compliant Wireless Bridge Products to Reduce Costly Cable Installation!

VT-WB1150, VT-WB2150, and VT-WB5900 High Speed 5.8GHz DIP AP / CPE Wireless Bridge w/ 8MB Storage, 64MB RAM, High Speed Transmission, and Point-to-Multi-Point (P2MP) Topology



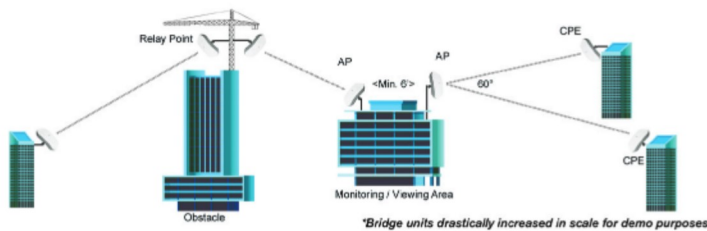
VT-WB1150



VT-WB2150



VT-WB5900



With wireless ranges of **3000ft.** (VT-WB1150), **1.25 miles** (VT-WB2150), and **3 miles** (VT-WB5900) 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 straight forward 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 over 100 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.

VITEK makes no warranty or guarantee whatsoever with respect to products sold or purchased through unauthorized sales channels. Warranty support is available only if product is purchased through a VITEK Authorized Reseller.

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



28492 CONSTELLATION ROAD VALENCIA, CA 91355
WWW.VITEKCCTV.COM

Version 1.0
Nov. 2024