



# VTD-TND8MEA

Transcendent 8 MegaPixel Motorized AF  
IP Dome Camera with Programmable  
Analytics

## QUICK START GUIDE



\*Charcoal model available:  
VTC-TND8MEAB



TRANSCENDENT

NETWORK

BUILT-IN AUDIO

8 MEGAPIXEL

MATRIX IR ILLUMINATION

MOTORIZED VARIFOCAL LENS

PROGRAMMABLE ANALYTICS

### FEATURES:

- 1/2.8" 8.0 MegaPixel CMOS Image Sensor
- Up to 20fps@8MP (3840 x 2160), Up to 30fps @ 6MP and Lower
- 2.8~12mm Motorized Varifocal Lens
- Matrix IR (up to 165' IR Range)
- True Wide Dynamic Range (120dB)
- True Mechanical Day/Night function by ICR
- XD-DNR (3D & 2D-DNR) Noise Reduction
- Programmable Analytics: Line crossing / Region Intrusion Detection (by Human / Vehicle Classification), Object Abandoned / Missing, Scene Change Detection, Video Blur, Video Color Cast Detection
- H.265+ / H.265 / H.264+ / H.264 / MJPEG
- MicroSD Card Slot for Local Recording (Up to 256GB)
- 1 Ch. Audio In + Built-in Mic\*
- Remote Viewing via VMS, Web Browser, and iOS & Android Apps
- ONVIF Compliant
- IP67 Weather Resistance + IK10 Impact Resistance
- Optional Junction Box (VT-TJB010) Available
- 12VDC & PoE (Power over Ethernet) Operation
- 3-Year Warranty



### PLEASE NOTE:

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

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

VITEK

## Components and Accessories



Camera



Quick Start Guide



4 Tapping Screws PA 4 x 2



Rubber Plug



Allen Wrench



Drill template

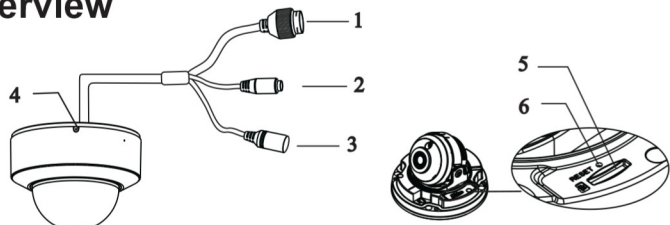


Plastic plug x 4



Weather Proof Connector

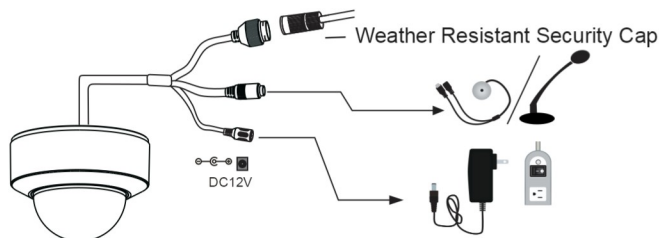
## Overview



- |                         |                      |
|-------------------------|----------------------|
| 1 Ethernet connector    | 4 Microphone         |
| 2 Audio input connector | 5 Micro SD Card Slot |
| 3 Power connector       | 6 Reset              |

## Cable Connections

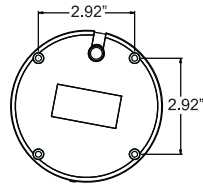
First connect the weather resistant cap to an ethernet patch cable, then connect the cameras ethernet adaptor. If not powering the camera with PoE, also connect the power Cable to an approved 12VDC power supply.



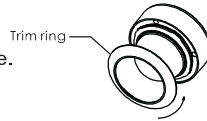
## Installation

Before beginning installation, make sure that the wall or ceiling is strong enough to withstand 3 times the weight of the camera. Do not leave the dome cover open for more time than needed (<4hrs). Do not remove the protective plastic film until after the installation is complete.

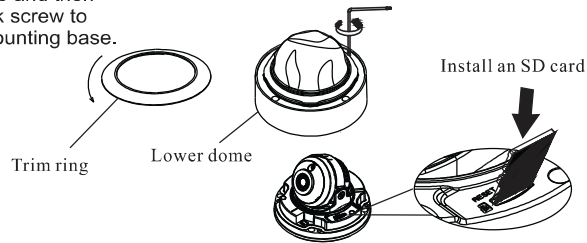
1. Attach the drill template to the place where you want to install the camera, then drill the screw holes and 1 cable hole according to the drill template.



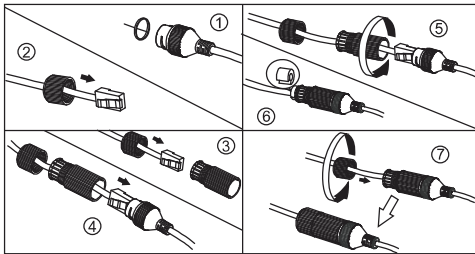
- 1A. Rotate the trim ring counterclockwise to remove.



2. Loosen the screws to open the lower dome and then loosen the lock screw to remove the mounting base.

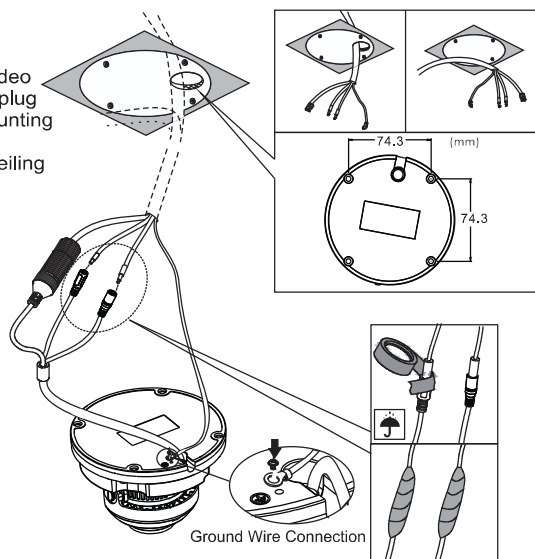


### CONNECTING THE NETWORK CABLE

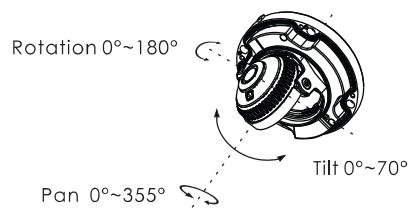


If the RJ45 Connector of the network cable has a jack and cannot be threaded through the kit, remove the jacket. If the jacket cannot be removed, cut off the connector and install an RJ45 connector without a jacket.

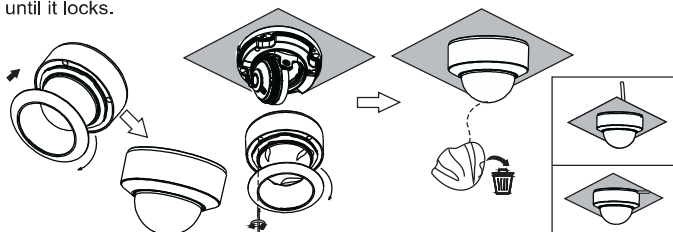
3. Route the cables and connect the power & video cables, use the rubber plug to fill the gap of the mounting base, then secure the mounting base to the ceiling or wall with screws.



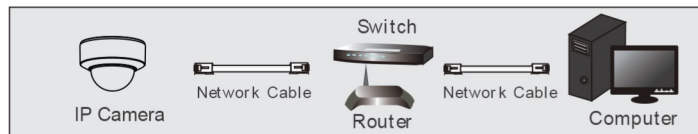
4. Before adjusting the three-axis camera mount, preview the camera on a monitor, then adjust as necessary achieve the optimum viewing angle.



5. Install the lower dome on the camera with the included screws, then put the trim ring back on the lower dome and rotate clockwise until it locks.



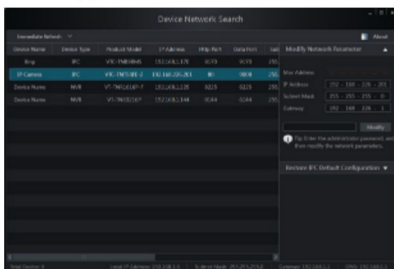
## LAN Configuration



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.vitekccctv.com/Downloads/Software/Transcendent-IPTool\\_v2.0.2.zip](http://www.vitekccctv.com/Downloads/Software/Transcendent-IPTool_v2.0.2.zip), then install on the PC. Open the installed application.



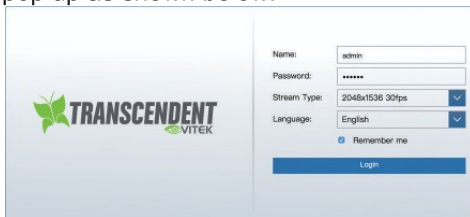
3. Modify the IP address. The default IP address is 192.168.226.201. Click the information of the camera listed in the above table to show the network information on the right side. Modify the IP address and gateway of the camera and make sure its network address is in the same local network segment 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

The screenshot shows the network configuration fields in the IP-Tool application. It includes fields for Mac Address, IP Address (set to 192.168.226.201), Subnet Mask (set to 255.255.255.0), and Gateway (set to 192.168.226.1). There is a 'Modify' button at the bottom right.

\*\* 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

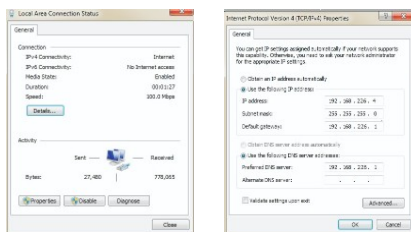
Subnet Mask: 255.255.255.0 Data Port: 9008

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 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  | to 9008  | Both     | 192.168.6.6   | <input checked="" type="checkbox"/> |
| 2           | 80    | to 81    | Both     | 192.168.6.6   | <input checked="" type="checkbox"/> |
| 3           | 10000 | to 10001 | Both     | 192.168.6.166 | <input type="checkbox"/>            |
| 4           | 21000 | to 21001 | Both     | 192.168.6.156 | <input type="checkbox"/>            |
| 5           | 7777  | to 7778  | Both     | 192.168.6.206 | <input type="checkbox"/>            |
| 6           | 1029  | to 1030  | Both     | 192.168.6.207 | <input type="checkbox"/>            |

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 - VTD-TND8MEA



|                         |                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor            | 1/2.8" 8.0 MegaPixel CMOS                                                                                                                                 |
| Image Size              | 3840×2160                                                                                                                                                 |
| Electronic Shutter      | 1/3s ~ 1/100000s                                                                                                                                          |
| Lens                    | 2.8~12mm Motorized Varifocal                                                                                                                              |
| Min. Illumination       | 0.02 lux @F1.6, AGC ON, 0 lux with Illumination On                                                                                                        |
| Field of View           | Horizontal: 97.3°~34°, Vertical: 52.3°~17.7°, Diagonal: 116°~37°                                                                                          |
| Focus                   | Motorized AutoFocus                                                                                                                                       |
| IR Distance             | Matrix IR Range: up to 165'                                                                                                                               |
| Day & Night             | ICR                                                                                                                                                       |
| Wide Dynamic Range      | 120dB                                                                                                                                                     |
| BLC                     | Yes - Backlight Control                                                                                                                                   |
| HLC                     | Yes - Highlight Control                                                                                                                                   |
| Digital Noise Reduction | Yes - DNR                                                                                                                                                 |
| S/N Ratio               | ≥50dB                                                                                                                                                     |
| Angle Adjustment        | Pan: 0°~345°, Tilt: 0°~80°, Rotation: 0°~345°                                                                                                             |
| Video Compression       | Main stream: H.265+ / H.265 / H.264+ / H.264, Sub / Third stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG                                                 |
| H.265 Standard          | Main Profile@Level4.1 High Tier                                                                                                                           |
| Resolution              | 8MP(3840×2160), 6MP(3200×1800), 4MP(2688×1520), 2K (2560×1440), 1080P(1920×1080), 720P(1280×720), D1, VGA(640×480), 480×240, CIF                          |
| Main Stream             | 60Hz: 8MP(1~20fps) 6MP/4MP/1080P (1~30fps) 50Hz: 8MP(1~20fps) 6MP/4MP/1080P (1~25fps)                                                                     |
| Sub Stream              | 720P/D1/VGA/CIF (60Hz: 1~30fps; 50Hz: 1~25fps)                                                                                                            |
| Third Stream            | D1/480×240/CIF (60Hz: 1~30fps; 50Hz: 1~25fps)                                                                                                             |
| Bit Rate                | 64Kbps ~ 12Mbps                                                                                                                                           |
| Bit Rate Type           | VBR / CBR                                                                                                                                                 |
| Image Settings          | ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, Sharpness, Image Mirror, Image Flip, NR, etc. adjustable through client software or web browser |
| Audio Compression       | G711A/U                                                                                                                                                   |
| ROI                     | Each ROI to be configured separately                                                                                                                      |
| Network                 | RJ45                                                                                                                                                      |
| CVBS Video Out          | No                                                                                                                                                        |
| Audio                   | 1CH audio input, 1CH built-in MIC*                                                                                                                        |

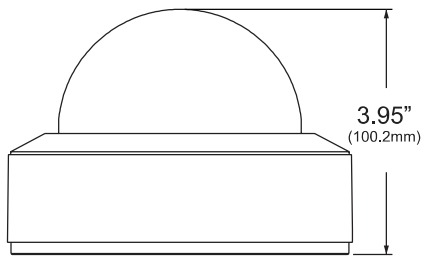
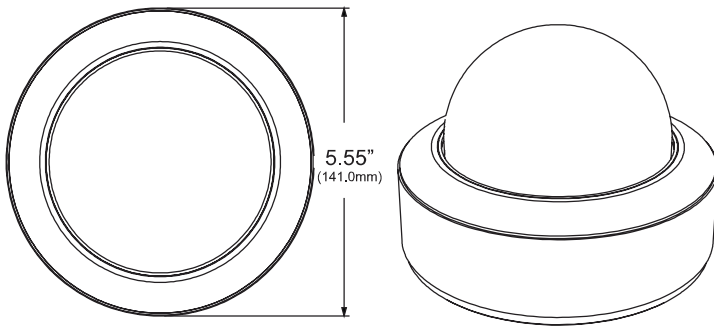


## DETAILED SPECS CONT'D - VTD-TND8MEA

|                          |                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage                  | Built-in micro SD card slot (up to 256GB)                                                                                                                                                         |
| Reset                    | Yes                                                                                                                                                                                               |
| Remote Monitoring        | Web browser / Transcendent NVR / VMS / Mobile App                                                                                                                                                 |
| Web Browser              | Chrome 89.0+ / Edge 89.0+ / Firefox 87.0+ / Safari 14.0+                                                                                                                                          |
| Online Connection        | Support simultaneous monitoring for up to 3 users, Support multi-stream real time transmission                                                                                                    |
| Network Protocol         | UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTCP, RTMP, PPPoE, DDNS, SMTP, FTP, 802.1x, SNMP, UPnP, HTTP, HTTPS, HTTP POST, P2P, QoS                                                                   |
| Interface Protocol       | ONVIF                                                                                                                                                                                             |
| Smart Alarm              | Motion Detection, SMD, SD Card Error, SD Card Full, IP Address Conflict, Network Disconnection, Video Exception                                                                                   |
| Programmable Analytics   | Line crossing / Region Intrusion Detection (by human / vehicle classification), Object Abandoned / Missing, Scene Change Detection, Video Blur, Video Color Cast Detection                        |
| More Features            | Watermark, IP address filtering, video mask, heartbeat, ANR, cloud upgrade, smart supplement light, corridor pattern                                                                              |
| PoE                      | Yes (IEEE802.3af)                                                                                                                                                                                 |
| Ingress / Impact         | IP67 Weather Resistance + IK10 Impact                                                                                                                                                             |
| Security                 | Video encryption, firmware encryption, HTTPS encryption, configuration encryption, illegal login lock, IP address filtering, 802.1x authentication, basic and digest authentication for HTTP/RTSP |
| D.O.R.I.                 | 2.8~12mm(W) Detect: 288ft(88m) Observe: 114ft(35m) Recognize: 56ft(17m) Identify: 27ft(8m)<br>2.8~12mm(T) Detect: 908ft(277m) Observe: 364ft(111m) Recognize: 180ft(55m) Identify: 91ft(28m)      |
| Power Supply             | DC12V/PoE                                                                                                                                                                                         |
| Power Consumption        | ≤12W                                                                                                                                                                                              |
| Operating Conditions     | -22°F~140°F (-30°C~60°C), Humidity: less than 95 % (non-condensing)                                                                                                                               |
| Installation             | Ceiling mounting, wall mounting - see additional optional mounting options on page 1                                                                                                              |
| Certificate              | CE, FCC                                                                                                                                                                                           |
| Environmental Protection | Complies with Directive EU RoHS, WEEE(2012/19/EU) , directive 94/62/EC and REACH(EC1907/2006)                                                                                                     |
| Dimensions (Dia x H)     | 5.55" x 3.95" (141 x 100mm)                                                                                                                                                                       |
| Weight                   | 1.94lbs / 31.04oz / 0.88kg                                                                                                                                                                        |

### BREAKDOWN OF MODEL NUMBERS EXAMPLE: VTD-TND8MEA

|              |              |            |            |            |            |            |            |
|--------------|--------------|------------|------------|------------|------------|------------|------------|
| <b>[VTD]</b> | <b>[T]</b>   | <b>[N]</b> | <b>[D]</b> | <b>[8]</b> | <b>[M]</b> | <b>[E]</b> | <b>[A]</b> |
| VITEK        | TRANSCENDENT | Network    | Vandal     | 8MP        | Motorized  | Entry      | Second     |
| DOVE         |              |            | Dome       |            | Lens       | Level      | Iteration  |





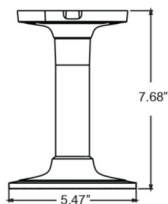
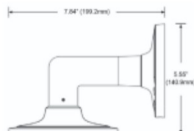
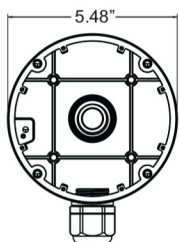
**VT-TJB010**  
Optional Junction box for Cable  
Management



**VT-TWMT-A2**  
Wall Mount  
(VT-TJB010 Req)



**VT-TPDMT-A2**  
Pendant Mount  
(VT-TJB010 Req)



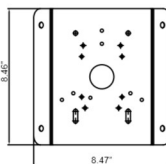
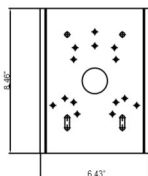
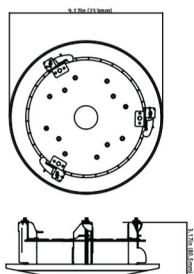
**VT-TFMT-L2**  
In-ceiling Semi-flush Mount



**VT-TPLMT**  
Universal Pole Mount  
Adapter (VT-TWM03X or  
VT-TWMT-A2 + VT-TJB010 Req)



**VT-TCNMT**  
Universal Corner Mount  
Adapter (VT-TWM03X or  
VT-TWMT-A2 + VT-TJB010 Req)



## 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.



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Version 1.0  
06/2025