



VT-TNR1626PN
16 Channel 8 MegaPixel [4K] Real Time
PoE Network Video Recorder

QUICK START GUIDE



**4K
8MP**

FEATURES

- 16 Channel Stand-alone Real-time IP Network Video Recorder w/ 8MP [4K] Ultra High Definition True High Resolution Display
- Video Input: 8/6/5/4/3MP/1080P/1280x1024/960P/720P/960H/D1/CIF
- HDMI & VGA Video Output
 - HDMI x 1: 3840 x 2160 / 1920 x 1080 / 1280 x 1024 / 1024 x 768
 - VGA x 1: 1920 x 1080 / 1280 x 1024 / 1024 x 768
 - * HDMI and VGA output the same video source*
- Frame Rate: 8MP[4K]/6MP/5MP/4MP/3MP/1080P/1280x1024/960P/720P/960H/D1/CIF @ 480fps (30fps / channel)
- H.265S / H.265+ / H.265 / H.264 Video Compression
- 16 Ch. Simultaneous Playback
- Pentaplex: Live Display / Record / Playback / Backup / Remote Access
- 16 Channel IPC Audio Input, 2-Way Audio: 1 x RCA, Local Output: 1xRCA
- Audio Compression: G.711(U/A)
- Decoding Capability: Live View / Playback -- 1Ch. 8MP, 4Ch. 1080P
- Video Content Analytics: Obj. Missing, Region Intrusion, Tripwire, Exception
- License Plate Recognition, Human / Vehicle Classification
- Plug & Play + Auto Configuration for Leading ONVIF Compliant IP Cameras
- Free VMS (Video Management Software) Lite and Standard versions available for organized viewing of multiple sites
[For Enterprise version please contact your Vitek Reseller]
- Multi-mode recording: Manual / Timer / Motion / Sensor / Smart Events
- Alarm Modes: Motion / Sensor Detection, A.I. Event, Temp., Exception Alarm, Mask
- Internal 16-Port PoE Switch
- 1 LAN Port
- USB 2.0 x 2 (1 Front + 1 Rear)
- 2 Internal SATA HDD Slot supporting up to 24TB (2 x 12TB HDD)
- Control locally via included USB Mouse or with Optional IR Remote Control
- Supports NAT Function and QR Code Scanning by Mobile Phones
- DHCP, DDNS, PPPoE network protocol
- Power Consumption: <10W (w/out HDD), Supply: DC 48V/4A
- 3-Year Warranty



PLEASE NOTE:

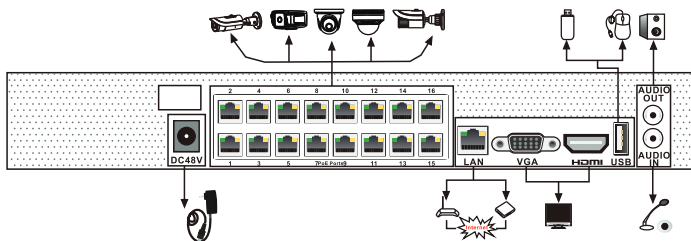
Complete User Guide, Software, Tools, and Updates are available online. Scan the QR Code or visit:
<http://www.vitekcctv.com/Downloads>

1. Notes

- Please read these instructions carefully for correct use of the product and keep this guide for reference purposes.
- All the examples and pictures used here are for reference only.
- There may be several technically incorrect places or printing errors in this manual. The updates will be added to the new version of this manual. The contents of this manual are subject to change without notice.
- This device should be operated only with the type of power source indicated on the label. The voltage of the power supply must be verified before use.

2. Rear Panel Instruction

The interfaces of the rear panel are for reference only.



3. Startup & Shutdown

► Startup

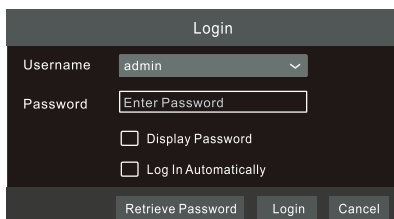
- ① Connect the monitor and the power.
- ② The device will boot and a power indicator will display blue.
- ③ A wizard window will pop up.

► Shutdown

Click “Start” and then select the “Shutdown” icon. This will bring up a shutdown window. The device will shut down by clicking the “OK” button. Then disconnect the power.

4. Login

The default username is **admin** and the default password is **123456**. You must configure the wizard when you start the NVR for the first time and you may change the password when you configure the wizard for the first time. You can skip the settings of the wizard next time. Click “Start” and select “Login”. This will take you to a login box. Input the default username and password you set and you can see the live image.

A screenshot of the NVR login interface. The window has a dark gray header with the title "Login". Below the header, there are two main input sections. The "Username" section features a dropdown menu with "admin" selected. The "Password" section has a text input field containing the placeholder "Enter Password". Below these fields are two checkboxes: "Display Password" and "Log In Automatically", both of which are currently unchecked. At the bottom of the form, there are three buttons: "Retrieve Password", "Login", and "Cancel".

5. Network Configuration & Add IP Camera

After you finish adding IP cameras, you can see the live images through the monitor of the NVR. The following will mainly introduce how to add IP cameras via LAN/WAN.

► LAN

- Set the network of the NVR. Go to Start → Settings → Network → TCP/IP. Input the IP address, subnet mask, gateway, etc. If using DHCP, please enable DHCP in both the NVR and the router
- Go to Start → Settings → Network → Port. Input HTTP port (the default value is 80), server port (the default port is 6036).
- The internal ethernet port is the port which connects all the PoE ports with the NVR system. The PoE ports are available if the internal ethernet port is online; if it is offline, all the PoE ports will be unavailable. The IP address and subnet mask of the internal ethernet port can be changed to make the port in the same network segment with the IP cameras which directly connect to the PoE ports of the NVR.

IP Address Settings

Ethernet Port 1 (Online) Internal Ethernet Port (Online)

☐ Obtain an IPv4 address automatically

Address: 192.168.1.2

Subnet Mask: 255.255.255.255

Gateway: 192.168.1.1

MTU: 1500

☐ Obtain an IPv6 address automatically

Address:

Mask Length: 0

Gateway:

☒ Obtain DNS automatically

Preferred DNS:

Alternate DNS:

Apply

Go to Start → Settings → Camera → Add Camera. The NVR will automatically refresh the cameras searched. The IPC which supports the Onvif protocol may be added manually. If the IPC searched is not in the same local network as the NVR, you should select the device and click  to modify the IP address.

Add Camera

Quickly Add Manually Add Add Recorder

☐	No.	Address	Port	Edit	Subnet Mask	Protocol	Model	Version
☐	1	192.168.1.20	80		255.255.255.0	XXX	XXX	3.4.2
☐	2	192.168.1.38	80		255.255.255.0	XXX	XXX	3.4.2
☒	3	192.168.2.45	80		255.255.255.0	XXX	XXX	4.0.0.1.beta1

Selected: 1/3

Remain Bandwidth: 108 / 120 Mb

Default Password Add Cancel

Edit Camera

MacAddress:

Address: 192.168.1.45 ☐ Sync to IPC

Subnet Mask: 255.255.255.0

Gateway: 192.168.1.1

Username: admin

Password:

OK Cancel

Select the device you want to add and then click the “Add” button. The NVR will automatically refresh the cameras and return to the “Edit Camera” interface. “Online” status means connecting the device successfully and you will see the live image. You may select the added device and click  button to modify channel, IP address, etc.

Edit Camera Edit Camera Group IP Planning										
Search Camera										+
#No.	Camera Name	Address	Port	Status	Protocol	Model	Preview	Edit	Upgrade	Version
1	IP Camera 1	192.168.1.20	80	Online	XXX	XXX				4.1.0.0
2	IP Camera 2	192.168.1.38	80	Offline	XXX	XXX				4.1.0.0
3	IP Camera 3	192.168.1.45	80	Online	XXX	XXX				4.1.0.0

IP Camera Max Number:
Remain Bandwidth: 85/120Mb

Edit Camera

Camera Name

IP Camera 1

Address

192.168.1.58

☐ Sync to IPC

Port

9008

Protocol

XXX

Model

XXX

Username

admin

Password

☐ Display Password

Test

OK

Cancel

► WAN

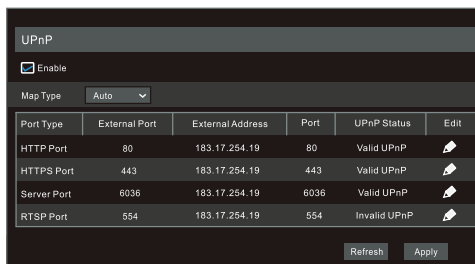
① Set the network of the NVR. Go to Start → Settings → Network → PPPoE. Enable PPPoE and then input the user name and password received from your ISP.

② Go to Start → Settings → Camera. Click “Add Camera” or  behind the column of the search camera and select “Manually Add” to add the IP cameras. Input IP address, server port, username and password of the IP camera. The IP camera must be connected over WAN. And here the IP address of the IP camera must be a WAN IP address.

6. UPnP

You can use the UPnP function to enable quick connection of the device to WAN via a router without port mapping.

- Go to Start → Settings → Network → UPnP, and enable UPnP and then click “Apply” button to save.
- Enable the UPnP function in the router.
- Click “Refresh” button to refresh the UPnP status. If the UPnP status is still “Invalid UPnP” after refreshing it for several times, the port could be wrong. Please change the mapping type to “Manual” and then click  to modify the port until the UPnP status turns to “valid UPnP”.



Port Type	External Port	External Address	Port	UPnP Status	Edit
HTTP Port	80	183.17.254.19	80	Valid UPnP	
HTTPS Port	443	183.17.254.19	443	Valid UPnP	
Server Port	6036	183.17.254.19	6036	Valid UPnP	
RTSP Port	554	183.17.254.19	554	Invalid UPnP	

7. NAT

► NAT Settings

- The NVR should be powered on and connected to the network.
- Go to Start → Settings → Network → TCP/IP. You can obtain the IP address, subnet mask and gateway automatically. You can also manually enter them according to the actual network situation. Please make sure the network segment is the same as that of the network which is used.
- Set the preferred or alternative DNS Server. Click “Apply” to save the parameters.
- Go to Start → Settings → Network → NAT tab. Enable NAT and select the NAT Server Address (The default NAT Server Address is *nat.autonat.com*). Click “Apply” to save the parameters.

NAT

Visit Address:

☒ Enable

NAT Server Address:

Apply

► NAT Access

After finishing the NAT settings, you can input **www.autonat.com** in the IE address bar and then press enter to go to the following interface. If it is the first time to access the NAT, download and install the ActiveX according to the popup tips. After installing ActiveX successfully, it will bring up the login box.

Enter device serial number

Enter Username

Enter Password

Login

Device Serial Number: Click  on the menu bar at the bottom of the live interface to check the serial number or go to Start → Settings → Network → Network Status to check the serial number of the NVR).

Username: The username of the NVR. The default username is admin.

Password: The password of the NVR. The password is set by you when you configure the wizard for the first time.

8. Manual Recording

Click  button to start recording. Click it again to stop recording.

You can also click  to check the status of the recording.



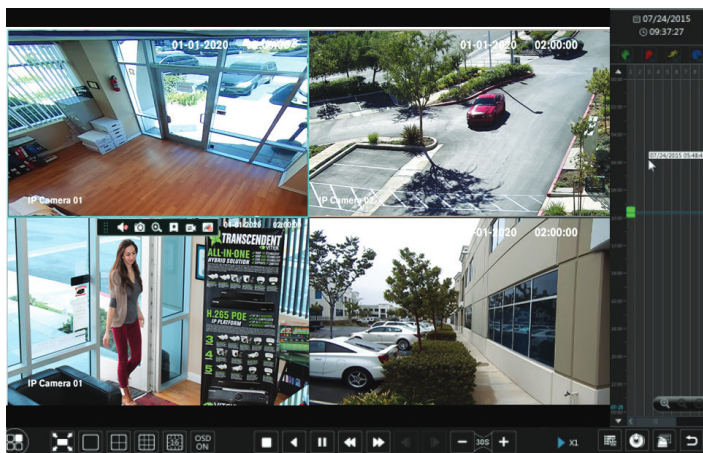
9. Playback

► Instant playback

Click “Instant Playback” in the right-click menu of the camera’s preview window to select or drag the playback progress bar to change the playback time and play back the recording.

► General playback

Click  on the tool bar at the bottom of the live preview interface or click Start → Playback to go to the playback interface as shown below. You can also add the playback cameras manually. Click  in the playback window to pop up the “Add Camera” window. Check the cameras in the window and then click “Add” to add playback camera. The recorded files of the added playback camera will be played in the playback interface.



Detailed Specifications	VT-TNR1626PN
Video Input / Resolution	16 IP Channels up to 8 MegaPixel [4K] 8/6/5/4/3MP/1080P/1280×1024/960P/720P/960H/D1/CIF
Main Monitor Output	HDMI × 1: 3840 × 2160 / 1920 × 1080 / 1280 × 1024 / 1024 × 768 VGA × 1: 1920 × 1080 / 1280 × 1024 / 1024 × 760
Multi Operation	Pentaplex: Live Disp./Record/Playback/Backup/Remote Access
Recording Compression	H.265+ / H.265S / H.265 / H.264
OS	Embedded Linux
Recording [Frame Rate]	8MP/6MP/5MP/4MP/3MP/1080P/1280×1024/960P/720P/960H/D1/CIF@480fps
Audio	16 Ch. IPC Audio In., 2-Way: 1 × RCA, Local Output: 1 × RCA
Audio Compression	G.711(U/A)
Recording Stream / Modes	Dual Stream Recording / Manual, Timer, Motion, Sensor, Analytics
Simultaneous Playback	Max. 16 Ch.
Playback Search	Time Slice / Time / Event / Tag Search / Smart Search
Smart Search	Highlights Display Recording in a Time Period, Different Colors Refer to Dif. Events
Playback Function	Play, Pause, Fast Forward / Back, Digital Zoom, Smart Events
Alarm Modes	Manual, Sensor, Motion, Exception, Smart Events
Alarm Linkage	Record, PTZ, Cruise, Alarm out, Pop-up Window, Email, Buzzer, App Push
Alarm Input / Output	Supports IP Camera Input / Output
Alarm Triggering	Record, Snapshot, Buzzer, Preset, E-mail
VCA (Video Content Analytics)	Object Missing, Region Intrusion, Tripwire, Exception
Other Features	License Plate Recognition, Human / Vehicle Classification
POS Information Overlay	YES - On Live View and Playback
Network Protocol / Bandwidth	DHCP, DNS, PPPoE, 96Mbps Incoming / 96Mbps Outgoing
PoE Standard	IEEE802.3af
PoE Port	RJ45 100M × 16
Mobile Device	iOS, Android
SATA HDD Storage	SATA2.0/3.0 × 2, Max 24TB [2 × 12TB]
Backup (Network) / Local	YES / U Disk, USB Mobile HDD
USB / Remote Control	USB 2.0 × 2 (1 Front + 1 Rear) / Optional
Power Consumption / Supply	< 10W (Without HDD) / DC 48V / 4A
PoE Output Power	≤ 150W
Working Environment	14°~122°F @ 10% ~ 90% RH
Dimensions (W × D × H)	14.96 × 10.55 × 1.77" / 380 × 268 × 45mm
Weight Net / Shipping	3.92 / 7.94lbs (1.78 / 3.6kg)



**CONSIDER THESE GREAT
VITEK TRANSCENDENT
MONITORS!**

Optimize Your Surveillance System with Vitek Professional Grade Displays!



VTM-TLM19L

Transcend 19.5" HDMI and
VGA CCTV Monitor with Full HD
Display (1080P)



**NDAA
COMPLIANT**

VTM-TLM21L

Transcend 21.5" HDMI and
VGA CCTV Monitor with Full HD
Display (1080P)

FEATURES

- 19.5" Display (VTM-TLM19L) / 21.5" Display (VTM-TLM21L)
- 16 : 9 Aspect Ratio
- Full 1080p High Def. Display (1920 x 1080) / (1600 x 900 on VTM-TLM19L)
- Contrast Ratio of 1000:1
- HDMI / VGA Input
- Audio In (2 x Speakers)
- 5ms Response Time
- 178° Horizontal and Vertical Viewing Angle (178 / 170° on VTM-TLM19L)
- LED Backlit
- 100mm VESA mount
- Professional grade display designed for 24/7 continuous use in security applications with 50,000 Hour Panel Life
- 3 Year Warranty



**CONSIDER THESE OTHER
GREAT TRANSCENDENT
PRODUCTS**

8MP IP Cameras in Fixed or Motorized Varifocal Configurations

**VTC-TNB8RFE-2, VTC-TNT8RFE-2/B, VTD-TND8RFE-2/B,
VTC-TNB8RME, VTC-TNT8RME/B, VTD-TND8RME/B**



KEY FEATURES

- 1/2.7" 8.0 Megapixel [4K] CMOS Image Sensor
- Up to 20fps @ 8MP (3840 × 2160), 6MP (3072 × 2048), 5MP (2592 × 1944), 720P (1280 × 720), D1, CIF, 480 × 240
- 2.8mm Fixed Lens or 2.8~12mm Motorized Varifocal Lens
- Matrix IR with up to 165' IR Range (2.8mm Motorized Version)
- Matrix IR with up to 100' IR Range (2.8mm Fixed Version)
- Digital Wide Dynamic Range (D-WDR)
- True Mechanical Day/Night function by ICR
- 3D-DNR (Digital Noise Reduction)
- Regional Intrusion Detection, Scene Change Detection, Line Crossing
- H.265, H.264 Compression
- MicroSD Card Slot for Local Recording (Up to 128GB)
- Audio Depending on Model (1 Ch. In / 2-Way Audio / Built-in Mic)
- Remote Viewing via CMS, Internet Explorer, and iOS & Android Apps
- ONVIF Compliant
- Optional J-Boxes, Wall, Semi-flush Mounts Available + Corner and Pole Adapters
- IP67 Weather Resistance + IK10 on Vandal Dome Models
- 12VDC & PoE (Power over Ethernet) Operation
- Available in Ivory or Charcoal (Models Dependant)

LIMITED PRODUCT WARRANTY

This VITEK product carries 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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