

# QUICK START GUIDE



VT-TNR414P(2)



VT-TNR818P(2)



VT-TNR818PF



VT-TNR1616P



VT-TNR1616F



VT-TNR1646PF



VT-TNR3216PF



VT-TNR6480E1



VT-TNV128E

## FEATURES:

- 4, 8, 16, 32, 64, and 128 Channel Stand-alone Real-time IP Network Video Recorders
- Full 8 Megapixel Real-time recording & playback
- 4K HDMI & VGA Video Outputs
- H.265 / H.264 Video Compression
- Plug and Play & Auto configuration for many leading ONVIF compliant IP Camera models
- Internal PoE Switch (VT-TNR414P(2), VT-TNR818P(2), VT-TNR1616P, VT-TNR1646PF and VT-TNR3216PF)
- 1 Gigabit LAN / Dual 1 Gigabit LAN (VT-TNR6480E1, VT-TNV128E)
- Pentaplex: Live Display / Record / Playback / Backup / Remote Access
- Supports SATA2/SATA3 HDD
- Applications for iOS® & Android®
- Fully Programmable Intelligent Analytics including Face Detection (VT-TNR818PF, VT-TNR1616F, VT-TNR1646PF, VT-TNR3216PF), Fisheye DeWarping (All except VT-TNR414P(2) and VT-TNR818P(2)), Object Removal/Museum Search, Line Crossing, and Area Intrusion Detection
- Remote Viewing over the Internet via Web Browser or LAN
- Mac OS® Client & CMS Central Management Software Included
- Supports both Dynamic and Static IP Addresses
- Web-based remote configuration



## PLEASE NOTE:

Scan the QR Code for the Complete User Guide. Visit:  
<http://www.vitekccv.com/Downloads> for additional  
Software, Tools, and Updates.

VT-TNR414P(2)



4CH NVR 720P/960P/1080P/3MP/4MP/5MP/8MP 120fps  
40Mbps 1TB, (1hdd, 1-10TB), 4K Output, HDMI, VGA,  
PTZ, 4 PoE Ports

VT-TNR818P(2)



8CH NVR 720P/960P/1080P/3MP/4MP/5MP/8MP  
240fps 64Mbps 1TB, (1hdd, 1-10TB), 4K Output, HDMI,  
VGA, PTZ, 8 PoE Ports

VT-TNR818PF



8CH NVR 720P/960P/1080P/3MP/4MP/5MP/8MP 240fps  
64Mbps 1TB, (1hdd max, 1-10TB), w/Face Detection  
License, De-Warping, 4K Output, HDMI, VGA, PTZ, 8 PoE  
Ports

VT-TNR1616P



16CH NVR 720P/960P/1080P/3MP/4MP/5MP/8MP  
480fps 128Mbps 1TB, (2hdd max, 1-20TB), 4K Output,  
HDMI, VGA, PTZ, 16 PoE Ports

VT-TNR1616F



16CH NVR 720P/960P/1080P/3MP/4MP/5MP/8MP 480fps  
128Mbps 1TB, (2hdd max, 1-20TB), 4K Output, HDMI,  
VGA, PTZ, w/Face Detection License, De-Warping, No  
PoE Ports

VT-TNR1646PF



16CH NVR 720P/960P/1080P/3MP/4MP/5MP/8MP 480fps  
128Mbps 1TB, (4hdd max, 1-40TB), 4K Output, HDMI,  
VGA, PTZ, w/Face Detection License, De-Warping, 16  
PoE Ports

VT-TNR3216PF



32CH NVR 720P/960P/1080P/3MP/4MP/5MP/8MP 960fps  
256Mbps 1TB, (8hdd Max, 1-80TB), 4K Output, HDMI,  
VGA, AUDIO, ALARM, PTZ, w/Face Detection License,  
De-Warping, 16 PoE Ports

VT-TNR6480E1



64CH NVR 720P/960P/1080P/3MP/4MP/5MP/8MP  
1920fps 320Mbps 80TB, (8hdd Max, 1-80TB), Supports  
De-Warping, 4K Output, HDMI, VGA, AUDIO, ALARM,  
PTZ, No PoE - Now with E-SATA (x2) & RAID 0,1,5,6 & 10

VT-TNV128E



128CH ENTERPRISE NVR 720P/960P/1080P/3MP/4MP/  
5MP/8MP 1920fps 320Mbps, (16hdd Max, 1-160TBt), Raid  
0,1,2,5,6 & 10. 4K Output, HDMI, VGA, AUDIO, ALARM,  
PTZ, No PoE

# SETUP & CONFIGURATION:

## 1. Notes

- Please read this instruction carefully for correct use of the product and preserve it for future reference.
- This manual is suitable for 4/8/16 CH Network Video Recorder. 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 into the new version of this manual. The contents of this manual are subject to change without notice.
- To prevent electric shocks and risk of fire hazards, only use the power source that Vitek provided with your NVR.

## 2. Check Package Contents

Please confirm that the device and all accessories are included in the package. If there is any damage, shortages or defects, please contact your dealer immediately.

- |                            |                                                      |
|----------------------------|------------------------------------------------------|
| 1) Transcendent Series NVR | 6) Rack Ears (16, 32 & 64 Channel Models)            |
| 2) IR Remote Control       | 7) 4GB USB Flash Drive (32, 64 & 128 Channel Models) |
| 3) Quick Start Guide       |                                                      |
| 4) Power Supply            |                                                      |
| 5) USB Mouse               |                                                      |

## 3. Rear Panel Connections



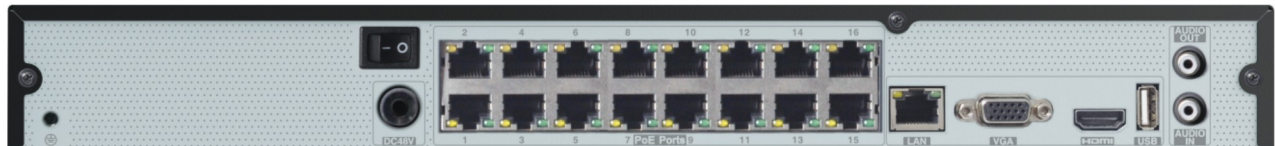
VT-TNR414P(2) Rear Panel Connections



VT-TNR818P(2) Rear Panel Connections



VT-TNR818PF Rear Panel Connections



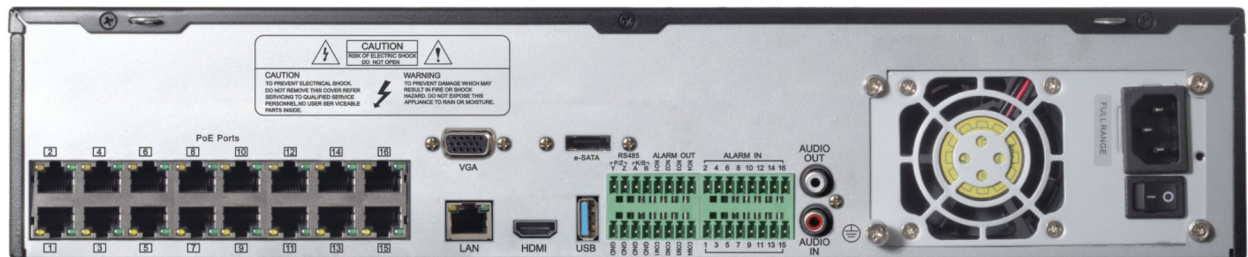
VT-TNR1616P Rear Panel Connections



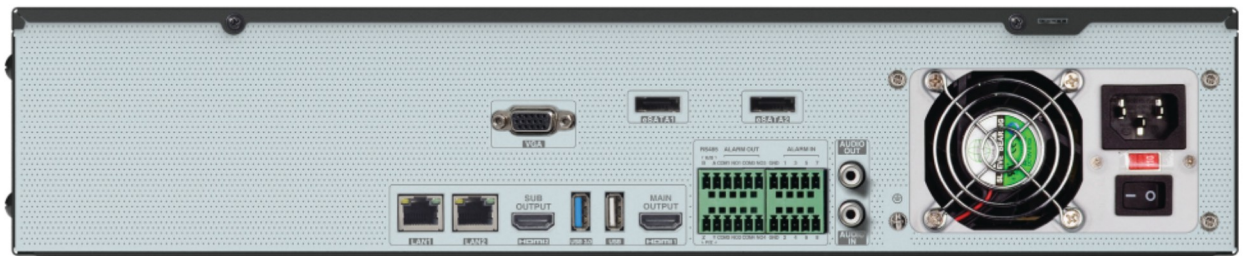
VT-TNR1616F Rear Panel Connections



VT-TNR1646PF Rear Connections



VT-TNR3216PF Rear Connections



VT-TNR6480E1 Rear Connections



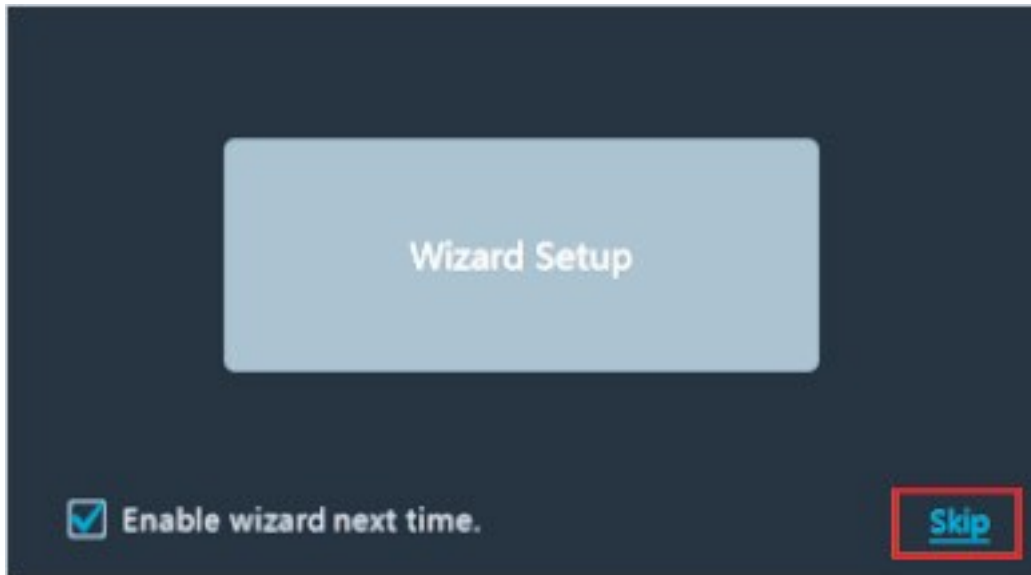
VT-TNV128E Rear Connections

#### 4. System Startup

- Please make sure all the connections are done properly before you power on the unit. Proper startup and shutdown are crucial to extending the life of your device

- **Startup:**

- ① Connect the output display device to the VGA/HDMI interface of the NVR.
- ② Connect the mouse and power. The device will boot and the power LED will turn blue.
- ③ A WIZARD window will pop up (you should select the display language the first time you use the NVR).



Click "Wizard Setup" to start wizard. The setting steps are as follows.

#### System Login:

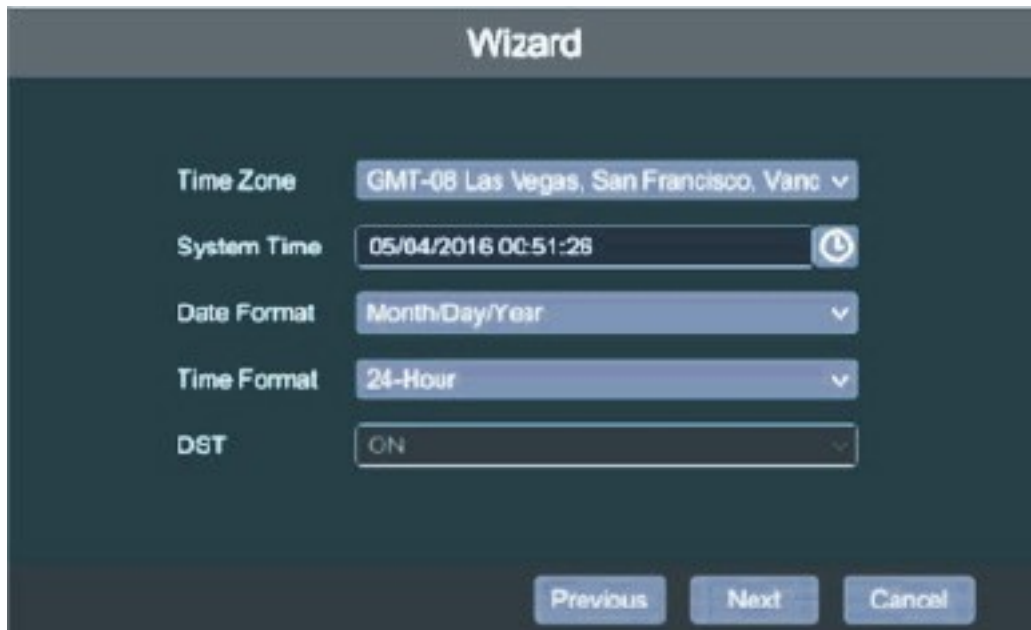
Set your own password or use the default when you use the wizard for the first time (the default username of the system is **admin** and the default password of admin is **123456**); select the login username and enter the corresponding password next time.

A screenshot of the 'Wizard' screen titled 'Admin Password Setup'. It has a dark blue background. The title 'Wizard' is at the top in a light gray box. Below it, 'Admin Password Setup' is written in white. There are three input fields: 'Username' with 'admin' entered, 'New Password' with 'Enter Password' placeholder, and 'Confirm Password' with 'Enter Password' placeholder. Below these fields are two checkboxes: 'Display Password' and 'Log In Automatically', both of which are unchecked. At the bottom, there are three buttons: 'Edit Security Question', 'Next', and 'Cancel', all in a light blue color.

Click "Edit Security Question" to set questions and answers for password security of admin. Click "Next" to continue or click "Cancel" to exit the wizard.

### Date and Time Configuration:

- The date and time of the system needs to be set up if you use the wizard for the first time. Refer to the following figure. Set the time zone, system time, date format and time format. The DST will be enabled by default if the time zone selected includes DST. Click “Next” to continue.

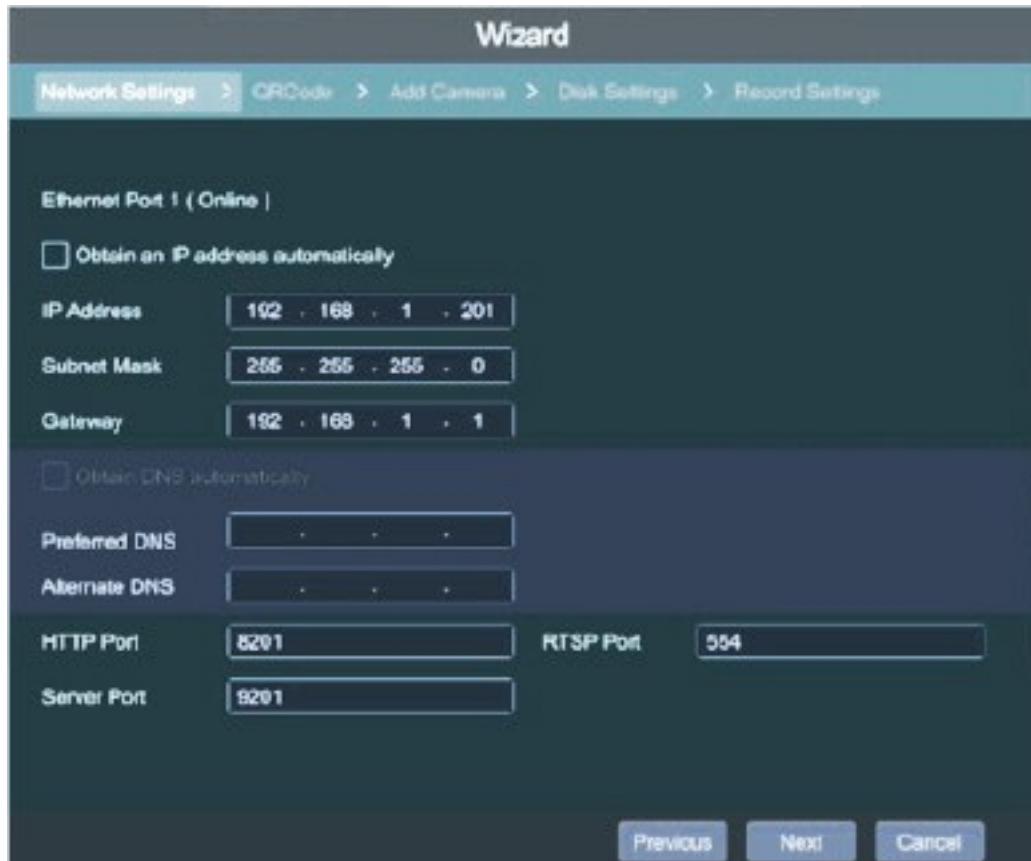


The screenshot shows the 'Wizard' interface for Date and Time Configuration. It features five rows of settings, each with a label and a corresponding input field or dropdown menu. The 'Time Zone' dropdown is set to 'GMT-08 Las Vegas, San Francisco, Vanc'. The 'System Time' field shows '05/04/2016 00:51:26' with a clock icon. The 'Date Format' dropdown is set to 'Month/Day/Year'. The 'Time Format' dropdown is set to '24-Hour'. The 'DST' dropdown is set to 'ON'. At the bottom right, there are three buttons: 'Previous', 'Next', and 'Cancel'.

| Field       | Value                                 |
|-------------|---------------------------------------|
| Time Zone   | GMT-08 Las Vegas, San Francisco, Vanc |
| System Time | 05/04/2016 00:51:26                   |
| Date Format | Month/Day/Year                        |
| Time Format | 24-Hour                               |
| DST         | ON                                    |

### Network Settings:

- Check “Obtain an IP address automatically” and “Obtain DNS automatically” to get the IP address and DNS automatically (the DHCP function of the router in the same LAN should also be enabled), or manually input them. Input the HTTP port, RTSP port and Server port. Click “Next” to continue.



The screenshot shows the 'Wizard' interface for Network Settings. It features a breadcrumb trail at the top: 'Network Settings > QRCode > Add Camera > Disk Settings > Record Settings'. The main section is titled 'Ethernet Port 1 (Online)'. It contains two checkboxes: 'Obtain an IP address automatically' (unchecked) and 'Obtain DNS automatically' (unchecked). Below these are fields for 'IP Address' (192.168.1.201), 'Subnet Mask' (255.255.255.0), and 'Gateway' (192.168.1.1). There are also fields for 'Preferred DNS' and 'Alternate DNS', both currently empty. At the bottom, there are fields for 'HTTP Port' (8201), 'RTSP Port' (554), and 'Server Port' (9201). At the bottom right, there are three buttons: 'Previous', 'Next', and 'Cancel'.

| Field                              | Value                    |
|------------------------------------|--------------------------|
| Obtain an IP address automatically | <input type="checkbox"/> |
| IP Address                         | 192.168.1.201            |
| Subnet Mask                        | 255.255.255.0            |
| Gateway                            | 192.168.1.1              |
| Obtain DNS automatically           | <input type="checkbox"/> |
| Preferred DNS                      |                          |
| Alternate DNS                      |                          |
| HTTP Port                          | 8201                     |
| RTSP Port                          | 554                      |
| Server Port                        | 9201                     |

### Note:

If you use the NVR with the PoE network ports, the online state of the internal Ethernet port will be shown on the interface. Refer to the picture below.

**Wizard**

Network Settings > QRCode > Add Camera > Disk Settings > Record Settings

**Ethernet Port 1 ( Online )**

☐ Obtain an IP address automatically

IP Address

Subnet Mask

Gateway

☐ Obtain DNS automatically

Preferred DNS

Alternate DNS

HTTP Port       RTSP Port

Server Port

**Internal Ethernet Port ( Online )**

IP Address

Subnet Mask

Previous   Next   Cancel

**QRCode:**

- You can scan the QRCode through the mobile client which is installed on a mobile phone or Tablet to log into the mobile client instantly.

**Wizard**

Network Settings > QRCode > Add Camera > Disk Settings > Record Settings



**SERIAL #**

NAT Server Closed

Previous   Next   Cancel

**Add Camera:**

- Click “Refresh” to refresh the list of online IP cameras which are in the same local network with NVR and then click  to add the searched camera. Click “Add All” to add all the cameras in the list. Click  to delete the added camera. Click “Delete All” to delete all the added cameras.

**Wizard**

Network Settings > QRCode > **Add Camera** > Disk Settings > Record Settings

| No. | ↑ IP Address  | Edit | Port | Protocol | Model | Version | Add |
|-----|---------------|------|------|----------|-------|---------|-----|
| 1   | 192.168.1.118 |      | 80   | ONVIF    | ONVIF |         | +   |
| 2   | 192.168.1.156 |      | 80   | ONVIF    | ONVIF |         | +   |
| 3   | 192.168.1.204 |      | 8204 | ONVIF    | ONVIF |         | +   |

Remain Bandwidth: 227 / 256 Mb

| No. | IP Camera Name | ↑ IP Address  | Protocol | Status  | Edit | Delete |
|-----|----------------|---------------|----------|---------|------|--------|
| 1   | AXIS           | 192.168.1.110 | ONVIF    | Online  |      |        |
| 2   | IPCamera       | 192.168.1.111 | ONVIF    | Online  |      |        |
| 3   | 3mp VF Bullet  | 192.168.1.151 | Vitek    | Online  |      |        |
| 4   | 2              | 192.168.1.152 | Vitek    | Offline |      |        |
| 5   | 3              | 192.168.1.153 | Vitek    | Online  |      |        |
| 6   | IP Camera1     | 192.168.1.155 | Vitek    | Online  |      |        |
| 7   | 4mp Motorized  | 192.168.1.165 | Vitek    | Offline |      |        |

- Click to edit the found IP camera as shown on the below left. Input the new IP address, subnet mask, gateway, username and the password of the camera. Click “OK” to save the settings.

**Edit IP Camera** ✕

MAC Address 00 : 18 : ae : : : : : ### --- ### --- ###

IP Address 192 . 168 . 12 . 86

Subnet Mask 255 . 255 . 255 . 0

Gateway 192 . 168 . 12 . 1

Port 80

Username admin

Password ●●●●●●

- Click to edit the added camera as shown on the above right. Input the new camera name, IP address, port, username and the password of the camera. You can click “Test” to test the effectiveness of the input information. Click “OK” to save the settings. You can change the IP camera name only when the added camera is online. Click “Next” to continue.



**Record Settings:**

- Two record modes are available: Auto and Manual.
- Auto: Select one auto mode in the interface as shown below and then click “OK” button to save the settings.



The image shows a 'Wizard' window for configuring record settings. It features a breadcrumb trail at the top: 'Network Settings > QRCode > Add Camera > Disk Settings > Record Settings'. Below this, there is a 'Mode' dropdown menu currently set to 'Auto'. Underneath the dropdown are six radio button options for recording modes: 'Motion Record', 'Sensor Record', 'Motion Record+Sensor Record', 'Always(24x7) Record+Motion Record' (which is selected with a blue dot), 'Always(24x7) Record+Sensor Record', and 'Always(24x7) Record+Motion Record+Sensor Record'. At the bottom right of the window are three buttons: 'Previous', 'OK', and 'Cancel'.

# NOTES

# 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.

