VT-TR8NHA Series

Transcendent Series 4 and 8 Channel 8MP [4K]
5-In-1 HD-TVI / AHD / CVI / CVBS / IP NDAA
Compliant Digital Video Recorders

QUICK START GUIDE

NDAA
COMPLIANT

4K
8MP

VT-TR8NHA410

VT-TR8NHA820

KEY FEATURES:

- 4, 8 Channel HD-TVI / AHD / CVI / CVBS BNC Inputs Supporting up to 8MP + IP Camera Support
- Live View: TVI/AHD/CVI [VT-TR8NHA410]: 4K@60fps, 5MP@80fps, 4MP/3MP/1080P/720P/WD1@120fps
- Live View: TVI/AHD/CVI [VT-TR8NHA820]: 4K@120fps, 5MP@160fps, 4MP/3MP/1080P/720P/WD1@240fps
- Analog Channel Recording [VT-TR8NHA410]: 4K@28fps (only 1 Ch. supports), 4K Lite@60fps, 5MP@48fps, 5MP Lite@80fps, 4MP/3MP@60fps, 4MP Lite/1080P/720P/WD1/D1@120fps
- Analog Channel Recording [VT-TR8NHA820]: 4K@56fps, 4K Lite@120fps, 5MP@96fps, 5MP Lite@160fps, 4MP/3MP@120fps, 4MP Lite/1080P/720P/WD1/D1@240fps
- HDMI, VGA, and BNC Spot Video Output
- Free VMS (Video Management Software) Lite and Standard versions available for organized viewing of multiple sites *[For Enterprise version please contact your Vitek Reseller]*
- H.265 / H.264 Compression
- 2-Way Audio (Takes up 1 Ch. Audio Input)
- PTZ Control over Coax, RS-485
- VT-TR8NHA410: 4 Alarm Inputs / 1 Alarm Output, VT-TR8NHA820: 8 Alarm Inputs / 2 Alarm Inputs
- Pentaplex: Live Display / Record / Playback / Backup /Remote Access
- VT-TR8NHA410: 1 Internal SATA2/3 HDD Slot up to 10TB (1 x 10TB HDD) +1 x E-SATA
- VT-TR8NHA820: 2 Internal SATA2/3 HDD Slot up to 10TB (2 x 10TB HDD) +1 x E-SATA
- Applications for iOS & Android
- 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
- Control locally via USB Mouse or IR Remote Control
- 3 Year Warranty

PLEASE NOTE:
Complete manual can be found at:
www.vitekcctv.com

SETUP & CONFIGURATION:

1. Notes

- Please read this instruction carefully for correct use of the product and preserve it for reference purposes.
- This manual is suitable for 4/8 CH HD Hybrid DVR. All the examples and pictures used here are for reference only.
- There may be technically incorrect places or printing errors in this manual. The updates will be added into the future versions of this manual. The contents of this manual are subject to change without notice.
- To prevent electric shock and risk of fire hazards, do NOT use other than specified power source.

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 distributor immediately.

1) Transcendent Series DVR
2) IR Remote Control
3) Quick Start Guide
4) Power Supply
5) HDD Screws
6) SATA Cables
7) USB Mouse

3. Rear Panel Connections

VT-TR8NHA410 Rear Panel Connections

VT-TR8NHA820 Rear Panel Connections

4. Startup & Shutdown

- Startup:

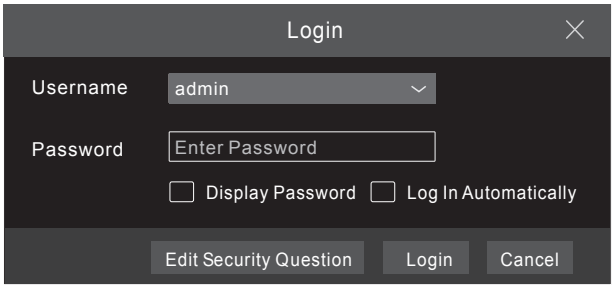
1 Connect a monitor and the power.
2 The device will boot up and the power indicator will display blue.
3 A wizard window will pop up.

- Shutdown:

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

5. Login

You must configure the wizard when you start the DVR for the first time. You can skip the settings of wizard next time. The default username is “admin” and the password is set by you when you configure the wizard for the first time. Click “Start” and select “Login”. This will take you to a login box. The default username is “admin”, the default password is “123456”. Enter username and password and click “Login” button to go to the main menu setup.



6. Analog Camera Connection

First connect the cameras to the DVR. Then go to Start → Settings → Camera → Manage Camera → Signal Access Set to checkmark the video mode. The actual signals input shall correspond to the video mode. Please refer to User Manual for details.

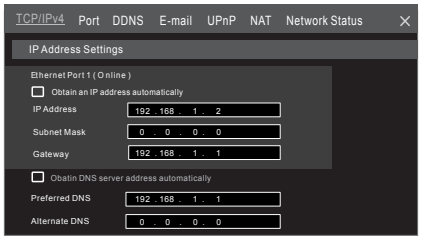
7. Network Configuration & Adding IP Cameras

►LAN

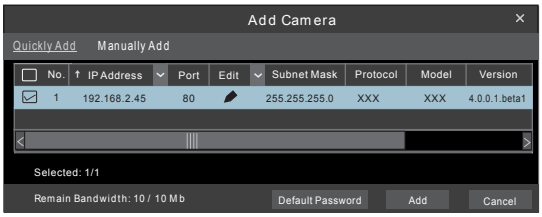
1 Set the network of the DVR. Go to Start → Settings → Network →TCP/IPv4. Input IP address, subnet mask, gateway, etc. If using DHCP, please enable DHCP in both the DVR and the router.

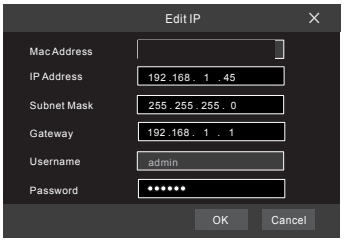
2 Go to Start → Settings → Network → Port. Input HTTP port (the default value is 80), server port (the default port is 6036).

3 Click “Apply” to save the settings.

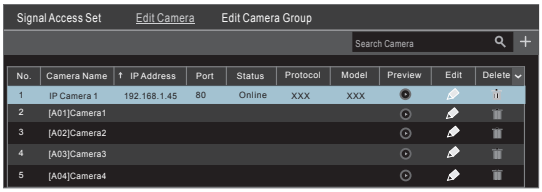


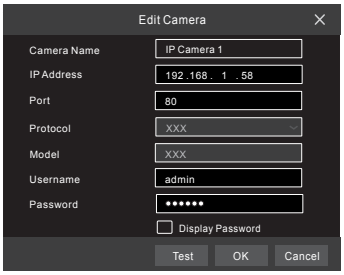
4 Go to Start → Settings → Camera → Add Camera. The DVR will automatically refresh the cameras searched. The IPC which supports Onvif protocol may be added manually. If the IPC searched is not in the same local network as the DVR, you should select the device and click to modify the IP address.





5 Highlight the device you want to add and then click “Add” button. The DVR will automatically refresh the cameras and return to “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 to modify channel, IP address, ect.





►WAN

1 Set the network of the DVR. Go to Start → Settings → Network → TCP/IPv4. Input static IP address or enable PPPoE and then input the user name and password received from your ISP.

2 Go to Start → Settings → Camera. Click “Add Camera” and select “Manually Add” to add 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.

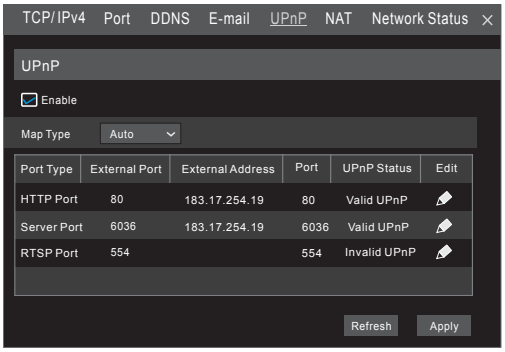
8. UPnP

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

1 Go to Start → Settings → Network → UPnP, and enable UPnP and then click “Apply” button to save.

2 Enable the UPnP function in the router.

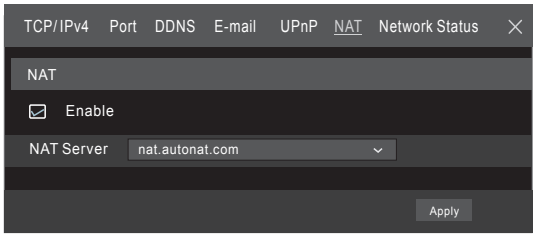
3 Click “Refresh” button to refresh the UPnP status. If the UPnP status is still “Invalid UPnP” after refreshing it several times, the port would be wrong. Please change the mapping type to “Manual” and then click to modify the port until the UPnP status turns to “valid UPnP”.



9. NAT

► NAT Settings

1 Make sure the DVR is powered and connected to a network.



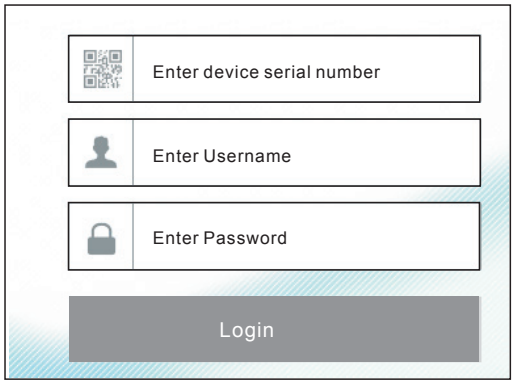
2 Go to Start → Settings → Network → TCP/IPv4. You can obtain the IP address, subnet mask and gateway automatically. You can also manually enter them according to the actual network situation. Please make sure the network segment is the same as that of the network which is used.

3 Set the preferred or alternative DNS Server. Click “Apply” to save the parameters.

4 Go to Start → Settings → Network → NAT tab. Enable NAT and select the NAT Server (The default NAT Server is nat.auto-nat.com). Click “Apply” to save the parameters.

► 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 this is the first time accessing the NAT, you need to download and install the Plug-in according to the popup tips. After installing the Plug-in successfully, it will display the login box.



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 DVR).
Username: The username of the DVR. (Default: admin)
Password: The password of the DVR. (Default: 123456)

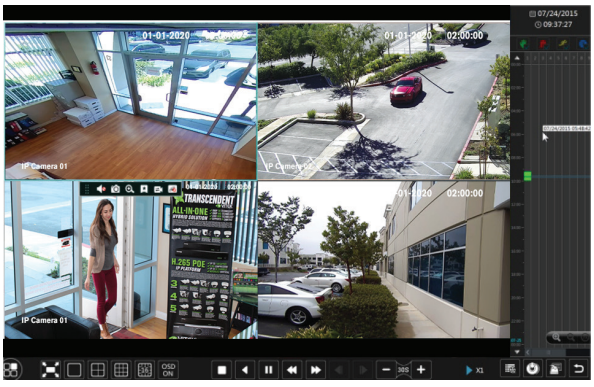
10. Playback

►Instant playback

Click “Instant Playback” in the right-click menu of the camera’s preview window to select.

►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. 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.



SPECIFICATIONS - VT-TR8NHA410

Video Inputs	4 Channels HD-TVI / AHD / CVI / CVBS Analog BNC Inputs Supporting up to 8MP[4K]
Additional IP Camera Support	2 IPCs (8Mp@20fps, 5MP & lower @30fps)
Compression	H.265 / H.264
Recording	8MP[4K]@7fps (CH.1 support), 4K Lite@60fps, 5MP@48fps, 5MP Lite@80fps, 4MP/3MP@60fps, 4MP Lite/1080P/720P/WD1/D1@120fps
Local Playback	4 CH
OS	Embedded Linux
Video Output	1 × HDMI (up to 3840 × 2160) / 1 × VGA (1920 × 1080) / 1 × BNC Spot(Analog)
Multi Operation (Pentaplex)	Live Display/Record/Playback/Backup/Remote Access
Audio	Input: RCA × 4 / Output: RCA × 1 (linear, 600Ω)
Two-Way Audio / Compression	Yes - takes up one ch. audio input / G.711(U/A)
Bit Rate	32Kbps ~ 4Mbps
Encode, Quality Levels	VBR / CBR, 6 level
Multi-Screen Display	1 / 4 / 6 / 8 / 9
Recording Modes	Manual, Timer, Motion, Sensor
Search	Time Sliced, Time, Event, Tag Management
Function	Play, Pause, FF, FB, Digital Zoom
Alarm In/Out	4 Alarm Inputs / 1 Alarm Output
Alarm Modes	Manual, Motion, Exception, Smart Event
Alarm Triggering	Record, PTZ Move, Relay Out, E-mail, etc
Network Interface	RJ45 1000Mbps × 1
Remote Viewing	CMS / Web Browser / Mobile Platforms
Remote Playback	4 CH
Dual-stream	Individual streams (network video + local rec.) set separately
Remote Users	10 users online, dual stream
RS485	RS485 × 1 (for PTZ)
PTZ Protocol	Control over Coax, Pelco D / Pelco P
Network Protocols	TCP/IP, UDP, DHCP, DNS, PPPOE, DDNS, SMTP, RTSP, HTTP
Network Bandwidth	Incoming: 16MBps, Outgoing: 40Mbps
SATA HDD	Up to 10TB (1 × 10TB) + E-SATA × 1
USB	2 × USB 2.0 for mouse and USB backup devices
Accessories	Remote controller, SATA cable, USB mouse
Power Consumption	≤ 10W (Without HDD)
Power Supply	DC: 12V / 2A
Working Environment	32º~104ºF (-10º~50ºC) / 10~90% RH
Dimensions (W × D × H)	11.18 × 9.80 × 1.65" / 300 × 249 × 42mm
Weight	2.54lbs (1.15kg) Net w/o HDD 4.23lbs (1.92kg) Shipping Weight w/o HDD

SPECIFICATIONS - VT-TR8NHA820

Video Inputs	8 Channels HD-TVI / AHD / CVI / CVBS Analog BNC Inputs Supporting up to 8MP[4K]
Additional IP Camera Support	8 IPCs (8MP @ 20fps, 5MP & lower @ 30fps)
Compression	H.265 / H.264
Recording	8MP[4K]@56fps, 4K Lite@120fps, 5MP@96fps, 5MP Lite@160fps, 4MP/3MP@120fps, 4MP Lite/1080P/720P/WD1/D1@240fps
Local Playback	8 CH
OS	Embedded Linux
Video Output	1 × HDMI (up to 3840 × 2160) / 1 × VGA (1920 × 1080) / 1 × BNC Spot(Analog)
Multi Operation (Pentaplex)	Live Display/Record/Playback/Backup/Remote Access
Audio	Input: RCA × 8 / Output: RCA × 1 (linear, 600Ω)
Two-Way Audio / Compression	Yes - takes up one ch. audio input / G.711(U/A)
Bit Rate	32Kbps ~ 5Mbps
Encode, Quality Levels	VBR / CBR, 6 level
Multi-Screen Display	1 / 4 / 6 / 8 / 9 / 13 /16
Recording Modes	Manual, Timer, Motion, Sensor
Search	Time Sliced, Time, Event, Tag Management
Function	Play, Pause, FF, FB, Digital Zoom
Alarm In/Out	8 Alarm Inputs / 2 Alarm Outputs
Alarm Modes	Manual, Motion, Exception, Smart Event
Alarm Triggering	Record, PTZ Move, Relay Out, E-mail, etc
Network Interface	RJ45 1000Mbps × 1
Remote Viewing	CMS / Web Browser / Mobile Platforms
Remote Playback	8 CH
Dual-stream	Individual streams (network video + local rec.) set separately
Remote Users	10 users online, dual stream
RS485	RS485 × 1 (for PTZ)
PTZ Protocol	Control over Coax, Pelco D / Pelco P
Network Protocols	TCP/IP, UDP, DHCP, DNS, PPPOE, DDNS, SMTP, RTSP, HTTP
Network Bandwidth	Incoming: 32MBps, Outgoing: 96Mbps
SATA HDD	Up to 20TB (2 × 10TB) + 1 × E-SATA
USB	2 x USB2 for mouse and USB backup devices
Accessories	Remote controller, SATA cable, USB mouse
Power Consumption	≤ 15W (Without HDD)
Power Supply	DC: 12V / 4A
Working Environment	32º~104ºF (-10º~50ºC) / 10~90% RH
Dimensions (W × D × H)	14.96 × 10.55 × 1.77" / 380 × 268 × 45mm
Weight	3.70lbs (1.68kg) Net w/o HDD 6.28lbs (2.85kg) Shipping Weight w/o HDD

CONSIDER THESE OTHER GREAT TRANSCENDENT PRODUCTS!

2MP HD OVER COAX **STARLIGHT** CAMERAS IN FIXED / MOTORIZED LENS CONFIGURATIONS

VITEK INDUSTRIAL VIDEO PRODUCTS, INC.

HD OVER COAX | MULTI FORMAT | STARLIGHT TECHNOLOGY

VTC-THB2RFS
VTC-THT2RFS
VTD-THD16R2F

Transcendent 2.0 Megapixel Indoor/Outdoor 4-in-1 Starlight Fixed Lens Cameras

FEATURES

- 1/2.8" 2.0 Megapixel Progressive Scan CMOS Sensor
- Advanced Starlight Technology Offers Dramatically Higher Sensitivity to Light Producing Color Images in Very Dark & Night Scenes
- 2.0 MegaPixel High Definition Analog (HDA): HD-TVI , AHD, CVI / 960H: CVBS: Output
- 3.6 or 2.8mm Fixed Lens Options
- Matrix IR w/ up to 100' IR Range (VTC-THT2RFS)
  Matrix IR w/ up to 165' IR Range (VTC-THB2RFS)
  16 SMD IR LEDs w/ up to 65' IR Range (VTD-THD16R2F)
- True Wide Dynamic Range (WDR)
- True Mechanical Day/Night function by ICR
- 3D-DNR Noise Reduction
- IP67, IK10 (VTD-THD16R2F Only)
- VTC-THT2RFS available in Ivory or Charcoal (VTC-THT2RFSB / VTC-THT2RFSB-2)
- Supports Control over COAX
- Over 1500' HD Video Transmission (Depending on cable characteristics and integrity)
- 12VDC Operation
- 3 Year Warranty

VTC-THB2RMS
VTC-THT2RMS
VTD-THD2RMS

Transcendent 2.0 Megapixel Indoor/Outdoor 4-in-1 Starlight Motorized Lens Cameras

** VTC-THT2RMS also available in charcoal (VTC-THT2RMSB)*

MOTORIZED AUTO FOCUS

FEATURES

- 1/2.8" 2.0 MegaPixel Progressive Scan CMOS Sensor
- Advanced Starlight Technology Offers Dramatically Higher Sensitivity to Light Producing Color Images in Very Dark & Night Scenes
- High Definition Analog (HDA): HD-TVI / AHD / CVI / CVBS (Selectable) Video Output
- 2.8-12mm Motorized Varifocal Lens
- Matrix IRs with up to 165' Range (VTC-THB2RMS),
  Matrix IRs with up to 165' Range (VTC-THT2RMS),
  Matrix IRs with up to 100' Range (VTD-THD2RMS)
- True Wide Dynamic Range (WDR)
- True Mechanical Day/Night function by ICR
- 3D-DNR Noise Reduction
- IP67 Weather Resistance, IK10 (VTD-THD2RMS Only)
- Supports Control over COAX
- Over 1500' HD Video Transmission (Depending on cable characteristics and integrity)
- 12VDC Operation
- 3 Year Warranty

TRANSCENDENT VITEK

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.