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VIMAR NVR 64 Channel IP Instruction Manual

ELVOX TVCC
46NVR.64
NVR 64 Channel IP
Instruction Manual

Contents

Introduction

64 channel IP NVR, able to manage and record cameras up to 8Mpx in H.264 and H.265 compression. HDD not included.

Hardware Installation

Check the unit and the accessories after getting the device. Please don't power up the unit till the physical installation is complete.
1.1 Install Hard Drive

Please use the hard drive the manufacturers recommend specially for security and safe field. Please calculate HDD capacity according to the recording setting.
Calculate Recording Capacity". This series of the product support to install 8 SATA HDDs.
Refer to the complete manual in Appendix B and Appendix C, downloadable from the Vimar website.

1. Open the cover and loosen the screws to take out the upper mounting bar, and then install the lower HDD.

2. Connect the power and data cables and install the other three HDDs according to above-mentioned method and install back the upper mounting bar.
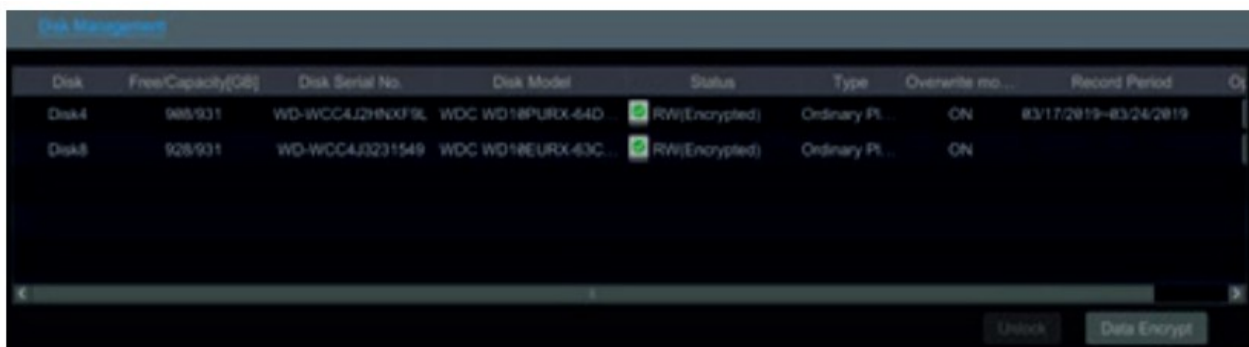

3. Install the upper four HDDs and install back the cover.

1.2 – Disk Management

Click Start → Settings → Disk → Disk Management to go to disk management interface. You can view the NVR s disk number and disk status and so on in the interface. Click Formatting to format theHDD.

Data Encryption:

1. Click Data Encrypt
2. Enter the username and password used to log in the NVR. This username and password shall have the permission of diskmanagement.
3. Check the disk you want to encrypt and then enter thepassword.

After you encrypt the data of a disk, this disk cannot be read by other NVRs unless it is unlocked.

Data Decryption:

1. Click "Data Encrypt"
2. Enter the username and password used to log in the NVR. This user shall have the permission of disk management.
3. Check the disk you want to decrypt and then empty thepassword.
4. Click Close Encrypt.

Unlock the disk: when one encrypted disk is transferred from another NVR to this NVR, it will be in locked status. Then you can select this locked disk and click Unlock .
After you enter the password of its data encryption, its status will be Read Only . Now you can read the data of this disk but it cannot be writtenanything.

1.3 – Raid

1. Enable RAID

   (Go to Start → Settings → Disk → Disk Mode)
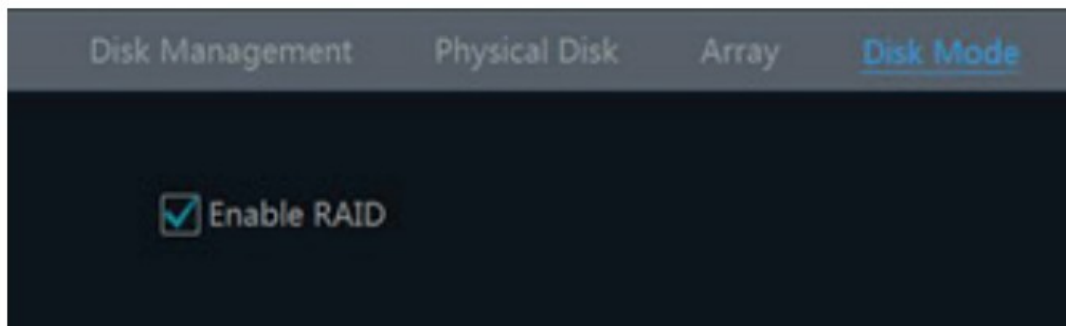
2. Create an array. (Go to Start → Settings → Disk → Physical Disk)

a. Click "Physical Disk" tab and then click "Create an array".
b. Enter the user name and password which has the authority of DiskManagement. If you don't have one, you use the user name and password that you login system (the default username: admin; the default password: 123456).
c. Enter array name and select array type (likeRAID5).
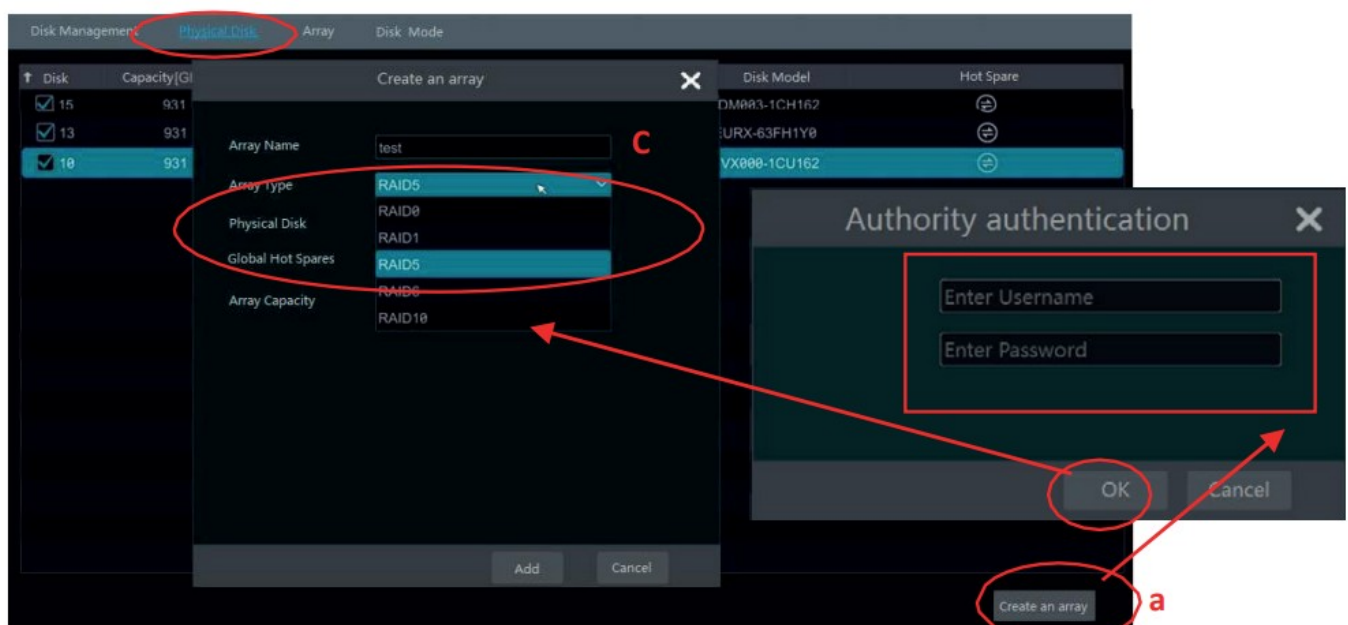
d. Select physical disk.
If you have 8 disks, please check 7 disks. The remaining one should be set to a hot spare.
If higher data security is needed, you can decrease physic disks and increase hot spare disks. Please set them as needed.

Disk	Capacity[GB]	Array	Type	Status	Disk Model	Hot Spare
1	931	test	Array disk	Normal	xxxxx	
2	931	test	Array disk	Normal	xxxxx	
3	931	test	Array disk	Normal	xxxxx	
■ 4	931		Ordinary plate	Normal	xxxxx	⊜

e. Select a hot spare. In the physical disk interface, select the disk that is not in the array and click as shown in the following pictures.

Disk Management		Physical Disk	Array	Disk Mode			
No.	Name	Capacity[GB]	Physical Disk	Hot Spare Position	Status	Type	Rebuild
1	test	1862	2 3	4	Downgrade	RAID5	◎

RAID Rebuilding

If one of your disks is broken, the disk indicator on the front panel will turn red. Of course, a warning tip will pop up if the relevant HDD exception alarm is set. You need to rebuild the RAID after you replace the broken disk with a new one.

Click the above circled icon and then select the physical disk to rebuild.
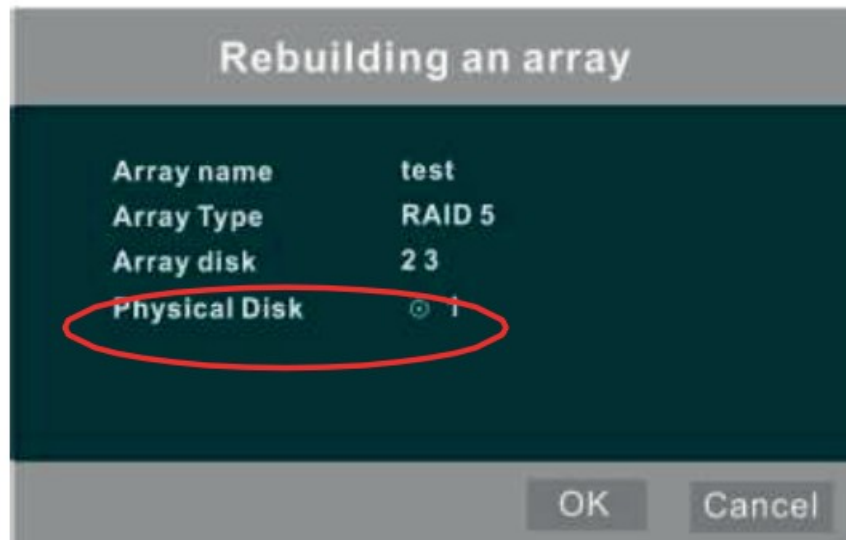
Basic Operation Guide

3.1 Startup & Shutdown
Please make sure all the connections are done properly before you power on the unit. Proper startup and shutdown are crucial to expending the life of your device.
3.1.1 Startup

1. Connect the output display device to the VGA/HDMI interface of the NVR.
2. Connect with the mouse and power. The device will boot and the power LED would turn blue.
3. A WIZARD window will pop up (you should select the display language the first time you use the NVR). Refer to 4.1 Startup Wizard for details.

3.1.2 Shutdown
You can power off the device by using remote controller or mouse.
By remote controller:

1. Press Power button. This will take you to a shutdown window. The unit will power off after a while by clicking "OK" button.
2. Disconnect the power.

Specifications

Type		46NVR.64
Sistem	Compression	Standard H.265
	OS	Linux
Video	Input	64 CH IPC
	Transfer Bandwidth	320 Mbps
	IP camera	8MP/6MP/5MP/4MP/3MP/1080P/960P/720P @25 130 fps

	Monitor Output	HDMI x 1: 3840 x 2160 1920 x 1080 / 1280 x 1024 HDMI x 1: 1920 x 1080 / 1280 x 1024 VGAx 1: 1920 x 1080 / 1280 x 1024
Audio	Network Input	64 CH IPC audio input
	Input	RCA x 1
	Output	RCA x 1
Record	Record Stream	Doppio Stream di registrazione I Dual Stream recording
	Resolution	8MP/6MP/5MP/4MP/3MP/1080P/960P/720P @25/30 fps
	Mode	Manual, timer, motion, sensor
Play Back	Playback	Max 16 CH
	Search	Time slice/time/event/tag search
	Smart Search	Highlighted color to display the camera record in a certain period of time, different colors refers to different record events
	Function	Play, pause, FF, FB, digital zoom, etc.
Alarm	Mode	Manual, sensor, motion, exception
	Input	8 CH local alarm input, support IPC alarm input
	Output	4 CH
	Triggering	Record, snap, preset, e-mail, etc.
Network	Interface	RJ45 10 / 100 / 1000 Mbps x 2
	Protocol	TCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTP
	Web Client	Max 10 users online
Mobile Device	OS	iOS, Android
Storage	HDD	SATA x 8, e-SATA x 2, up to 8TB per HDD
	Disk Array	RAIDO, RAID1, RAIDS, RAID6, RAID10
Port	Remote control	Yes
	USB	USB 2.0 x 2 (one in the front panel and the other in the rear panel), USB 3.0 x 1 (rear panel)
Backup	Local Backup	U disk, USB mobile HDD
	Network backup	Yes
Others	Power Supply	ATX 100-240 50/60Hz 250W
	Consumption	515W (without HDD)

Dimensions	445 x 436 x 100 (WxDxH)
Work Environment	– 10 °C — 50 °C, 10 % — 90 % humidity

Wizard & Main Interface
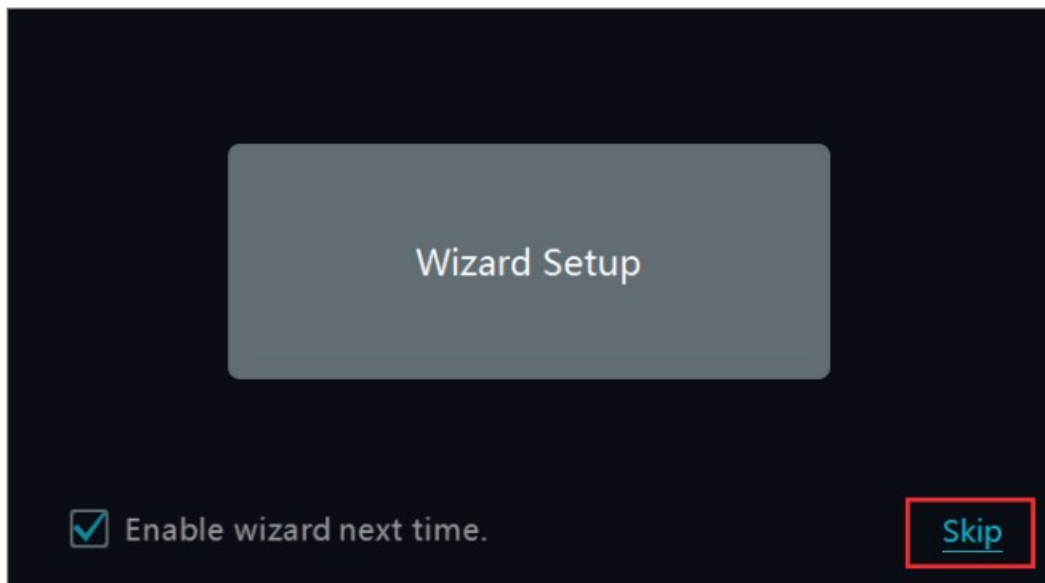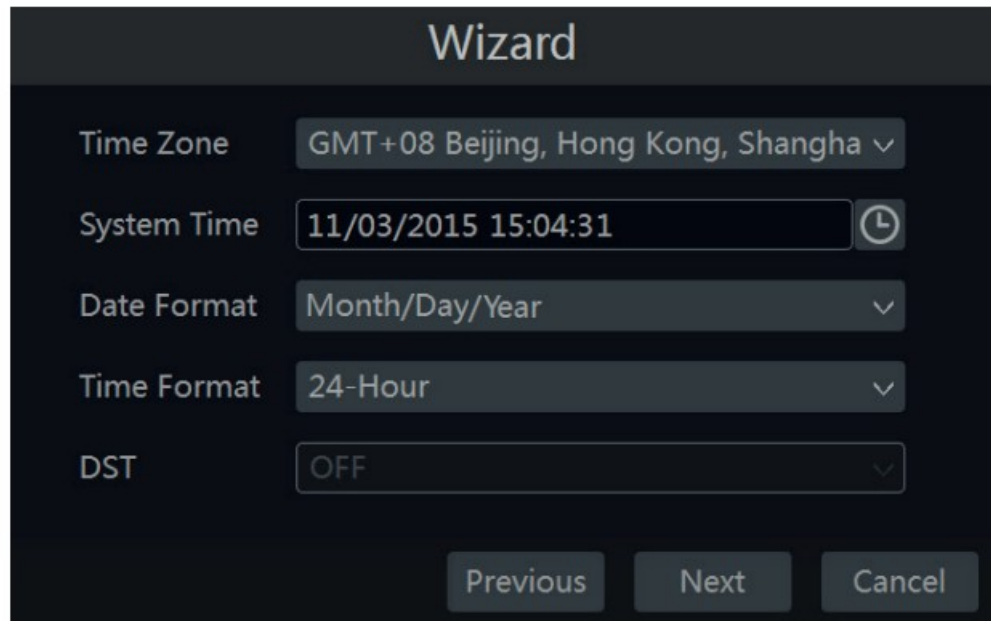

4.1 Startup Wizard

The disk icons will be shown on the top of the startup interface. You can view the number and status of each disk

quickly and conveniently through these icons (: no disk;   : unavailable disk;   : RW available disk).
You can quickly configure the NVR by wizard setup to make the NVR work normally. You must configure the
wizard if you start the NVR for the first time (or click "Skip" to cancel the wizard next time).

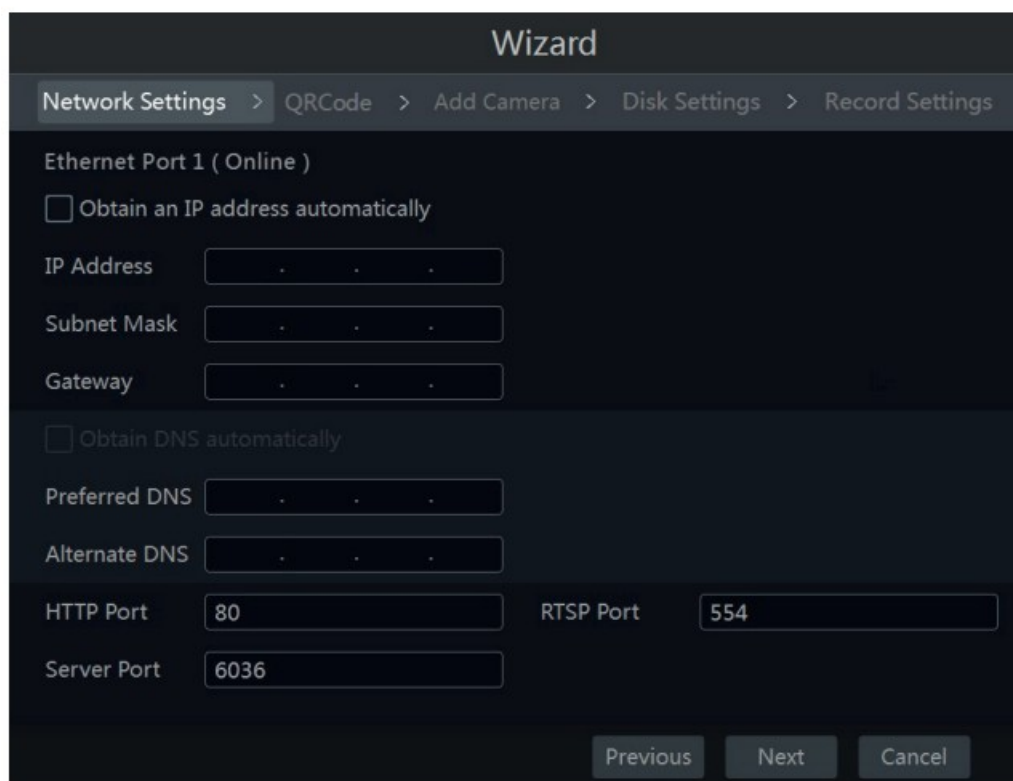Click "Wizard Setup" to start wizard. The setting steps are as follows.

1. 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.
   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.

2. Date and Time Configuration. The date and time of the system need 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.


3. Network Settings. Check "Obtain an IP address automatically" and "Obtain DNS automatically" to get the IP address and DNS automatically, or manually input IP address, subnet mask, gateway, preferred DNS and alternate DNS. Input the HTTP port, RTSP port and Server port. Click "Next" to continue.

4. QRCode. You can scan the QRCode through mobile client which is installed in the mobile phone or PAD to log in the mobile client instantly. Please refer to 5.2 Mobile Client Surveillance for details.
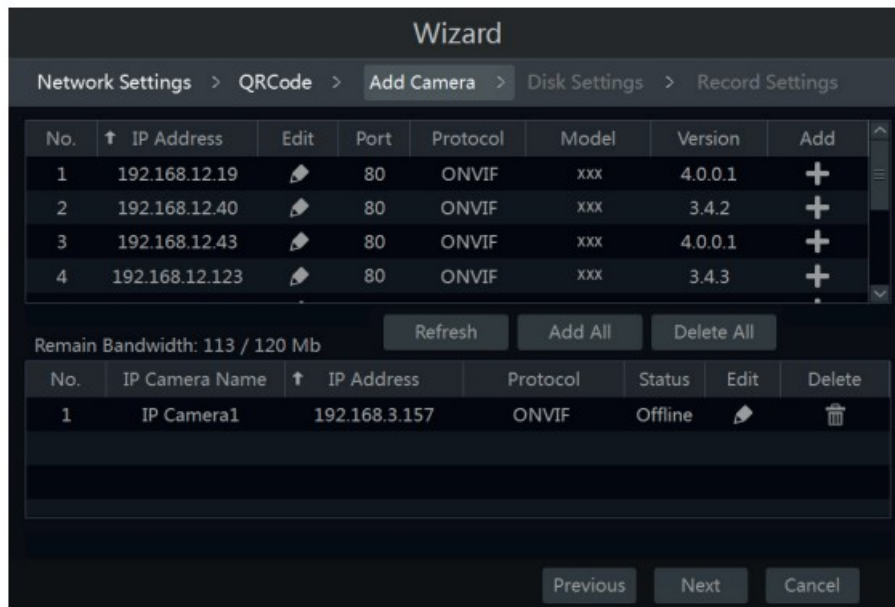
5. Add Camera. Click "Refresh" to refresh the list of online IP cameras which are in the same local network with NVR and then click to add the searched camera. Click "Add All" to add all the cameras in the list. Click to delete the added camera. Click "Delete All" to delete all the added cameras.

Click to edit the searched 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.

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.

6. Disk Settings. You can view the disk number, disk capacity of the NVR and serial number, R&W status of the disk. Click "Formatting" to format the disk. Click "Next" to continue.

7. 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.**

Manual: Set the "Sensor Record", "Motion Record" and "Schedule Record" of each camera. Click "OK" to save

the settings.

NAT Configuration

Click Start ⟶ Settings ⟶ Network ⟶ NAT to go to the interface for NAT configuration.
Check "Enable" and then select the NAT server address.
Access Type: NAT1.0 or NAT2.0 can be selected.
Note: in order to use cloud FW update, please make sure NAT2.0 is enabled (default).
Click "Apply" to save the settings.

5.1 View Network Status

Click Start → Settings → Network → Network Status to view the network status or click [icon] on the tool bar at the bottom of the live preview interface to view network status conveniently.

5.2 Remote Surveillance
Mobile Client Surveillance

1. Enable NAT in the NVR.

2. Download and install By-Camera app into the mobile device with the Android or iOS system.

3. Run the mobile client, go to the "Add Device" interface and then click [icon] to scan the QRCode of the NVR (Go to Start → Settings → System → Information → Basic to view the QRCode of the NVR).

4. After scanning the QRCode successfully, input the login password to log in mobile client.
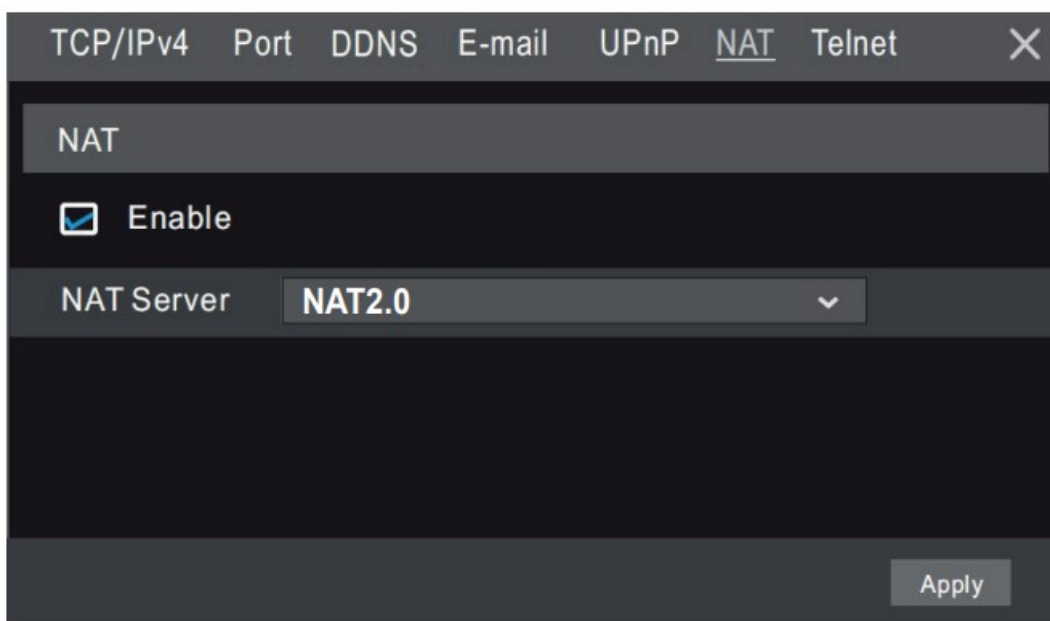
Note: the complete manual of instructions and CVM. exe, Iptool.exe and Diskcalculator.exe software are available in the online Product info on: **www.vimar.com**
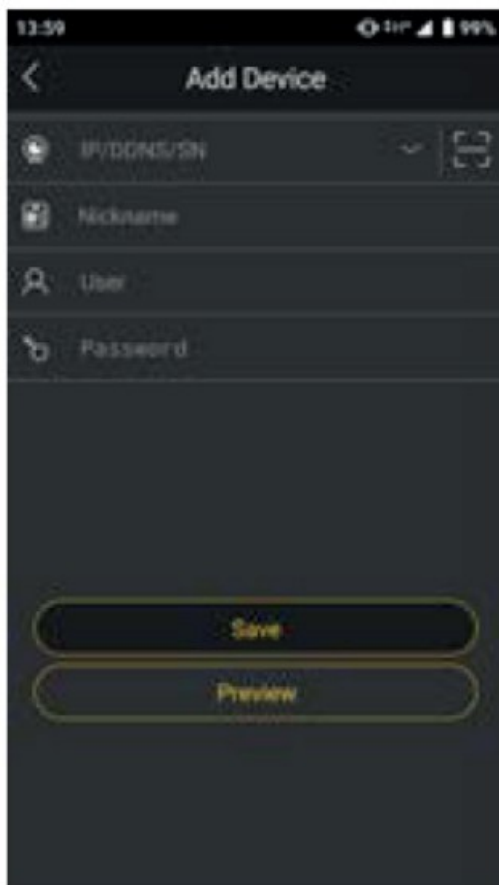
Cautions

– Before operation, we strongly advise users to read this manual and keep it properly for using later.

– Please use the specified power supply to connect.

– Avoid from in correct operation, shock vibration, heavy pressing which can cause damage to product.

– Keep away from heat sources such as radiators, heat registers, stove., etc.

– This is product instructions not quality warranty. We may reserve the rights of amending the typographical errors, inconsistencies with the latest version, software upgrades and product improvements, interpretation and modification. These changes will be published in the latest version without special notification.

– When this product is in use, the relevant contents of Microsoft, Apple and Google will be involved in. The pictures and screenshots in this manual are only used to explain the usage of our product. The ownerships of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google belong to the above-mentioned companies.

Installation rules

Installation should be carried out by qualified personnel in compliance with the current regulations regarding the installation of electrical equipment in the country where the products are installed.

Conformity to Standards

EMC Directive. RoHS Directive.

Standards EN 62368-1, EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3, EN IEC 63000

REACH (EU) Regulation no. 1907/2006 – Art.33. The product may contain traces of lead.

WEEE – User information

The crossed bin symbol on the appliance or on its packaging indicates that the product at the end of its life must be collected separately from other waste. The user must therefore hand the equipment at the end of its life cycle over to the appropriate municipal centres for the differentiated collection of electrical and electronic waste. As an alternative to independent management, you can deliver the equipment you want to dispose of to the dealer when purchasing a new appliance of an equivalent type. You can also deliver electronic products to be disposed of that are smaller than 25 cm for free, with no obligation to purchase, to electronics retailers with a sales area of at least 400 m2. Proper sorted waste collection for subsequent recycling, processing and environmentally conscious disposal of the old equipment helps to prevent any possible negative impact on the environment and human health while promoting the practice of reusing and/or recycling materials used in manufacture.

Privacy

Privacy Policy

As required by Regulation (EU) 2016/679 on the protection of personal data, Vimar S.p.A. guarantees that the electronic processing of data minimises the use of personal and other identification information, which is only processed to the extent strictly necessary in order to achieve the purposes for which it was collected. The personal information of the Data Subject is processed in accordance with the product/application privacy policy available on our website **www.vimar.com** in the legal section (Product – App Privacy Policy – Vimar energia positiva). Please remember that, pursuant to Regulation (EU) 2016/679 on the protection of personal data, the user is the controller of processing for the data collected during use of the products and, as such, is responsible for adopting suitable security measures that protect the personal data recorded and stored, and avoid its loss.

Should the camera monitor public areas, it will be necessary to display – in a visible manner – the information about the 'area under video surveillance' envisaged in the privacy policy and specified on the website of the Italian Data Protection Authority (Garante). The recordings may be stored for the maximum period of time envisaged by legal and/or regulatory provisions in the place where the camera has been installed. If the regulations in force in the country of installation envisage a maximum storage period for the image recordings, the user shall ensure they are deleted in compliance with the applicable regulations.

In addition, the user must guarantee safe possession of and control over its passwords and the related access codes to its web resources. The Data Subject must provide the password for access to its system when requesting help from the Vimar Support Centre, so that the related support can be provided. Provision of the password represents consent for processing. Each Data Subject is responsible for changing the password for access to its system on completion of the work carried out by the Vimar Support Centre.

Documents / Resources

	VIMAR NVR 64 Channel IP [pdf] Instruction Manual 46NVR.64, NVR 64 Channel IP, NVR 64, 64 Channel IP, Channel IP, IP

References

- **Home automation, electrical equipment, smart home - Vimar energia positiva**