



HOW-TO GUIDE

TRANSCENDENT RECORDERS: ADDING CAMERAS TO DUAL NETWORK CARD NVR



PLEASE NOTE:

Complete User Guide, Software, Tools, and Updates are available online. Scan the QR Code or visit:
<https://vitekccctv.com>

Transcendent Recorders

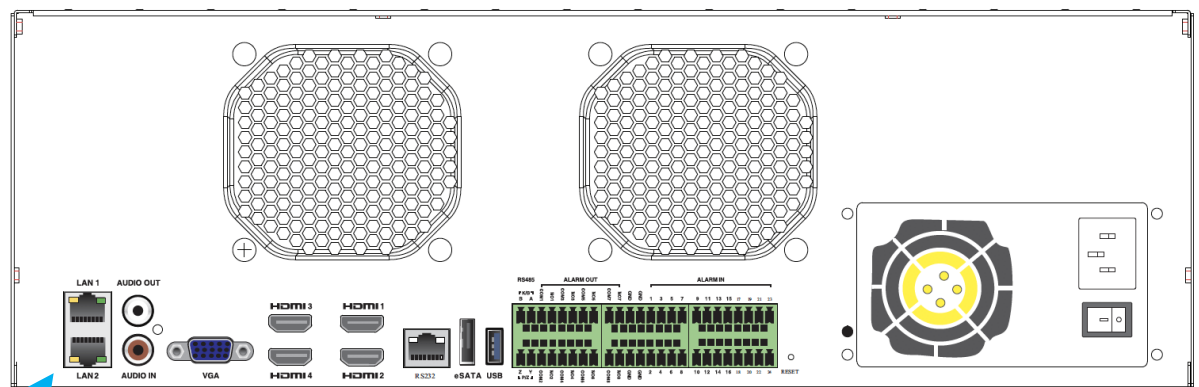
Adding Cameras to Dual Network Card NVR



16 POE with 2 uplink ports



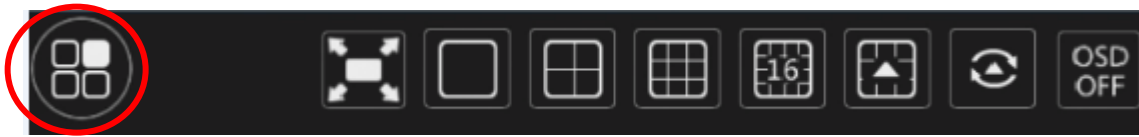
(VT-TNV6416E1)



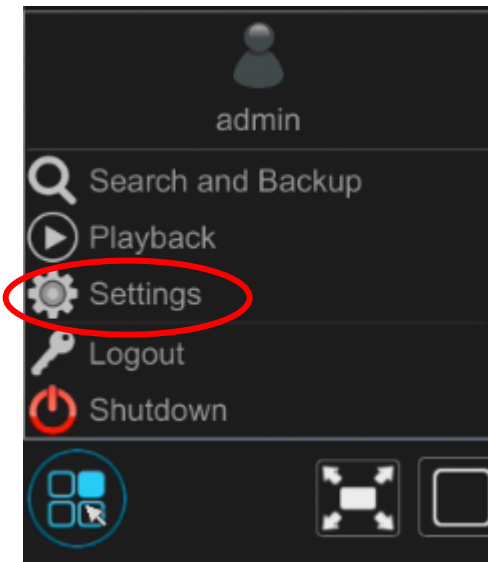
LAN 1: Connects to your local network

LAN 2: connect all your IP camera with POE switch to keep cameras on dedicated network

To view Device network information please open the Start menu (circle with 4 squares) to begin

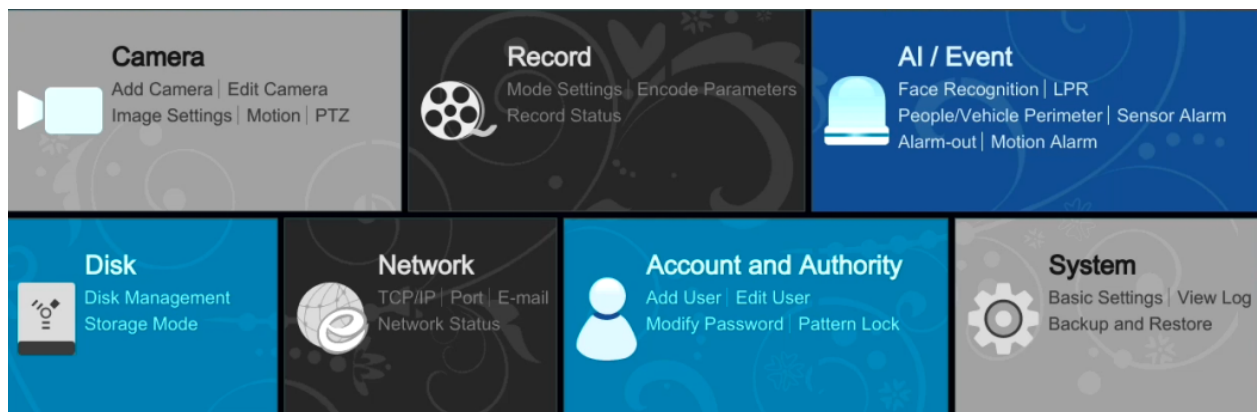


Click on Settings



Main Menu should appear

****Menu may change depending on firmware version****



Click on Network



Click on TCP/IP

****Depending on Model, Menu might look different****

A screenshot of the 'Network' configuration page in a web interface. The page has a dark theme. On the left, there is a sidebar with 'Network' selected, and sub-options like 'TCP/IP', 'DDNS', 'E-mail', and 'Cloud Upgrade'. The main area shows 'IP Address Settings' for 'Ethernet Port 1 (Online)'. It includes checkboxes for 'TOE Enable' (checked) and 'Obtain an IPv4 address automatically' (unchecked). There are input fields for 'Address' (192.168.1.15), 'Subnet Mask' (255.255.255.0), 'Gateway' (192.168.1.1), and 'MTU' (1500). There are also fields for 'Obtain an IPv6 address automatically' (checked), 'Preferred DNS', 'Alternate DNS', and 'Default Route'. An 'Apply' button is at the bottom right.

Network

Live Display Camera Record AI / Event Disk **Network** Account and Authority System

TCP/IP Port PPPoE DDNS E-mail UPnP 802.1x NAT FTP Platform Access SNMP Cloud Upgrade

Network
TCP/IP | DDNS | E-mail
Cloud Upgrade

Stream Settings
Sub Stream Settings

Network Status
View Network Status

IP Address Settings

☒ TOE Enable (Modifying toe status need to reboot)

Work Pattern Multiple Address Setting (Modifying work pattern need to reboot)

Ethernet Port 1 (Online) Ethernet Port 2 (Offline)

☐ Obtain an IPv4 address automatically

Address 192 . 168 . 1 . 15

Subnet Mask 255 . 255 . 255 . 0

Gateway 192 . 168 . 1 . 1

MTU 1500

☒ Obtain an IPv6 address automatically

Address

Mask Length

Gateway

☐ Obtain DNS automatically

Preferred DNS 8 . 8 . 8 . 8

Alternate DNS 8 . 8 . 4 . 4

Default Route Ethernet Port 1

Obtain IPV6 DNS automatically

Preferred DNS

Alternate DNS

Apply

Ethernet Port 1 is default port that will connect to your local network.

In example below my network is

IP Address :192.168.1.15

Subnet:255.255.255.0

Gateway/Router:192.168.1.1

Please contact your network administrator on what IP to give NVR

The screenshot displays the 'TCP/IP' configuration tab in a network management interface. The 'IP Address Settings' section is active, showing 'TOE Enable' checked and 'Work Pattern' set to 'Multiple Address Setting'. Two tabs are visible: 'Ethernet Port 1 (Online)' and 'Ethernet Port 2 (Offline)'. The 'Ethernet Port 1' tab is selected, and its settings are shown below. A red rectangle highlights the IP address, Subnet Mask, and Gateway fields. The IP address is 192.168.1.15, the Subnet Mask is 255.255.255.0, and the Gateway is 192.168.1.1. The MTU is set to 1500. Below these, the 'Obtain an IPv4 address automatically' checkbox is unchecked. The 'Obtain DNS automatically' checkbox is also unchecked. The 'Preferred DNS' is 8.8.8.8, the 'Alternate DNS' is 8.8.4.4, and the 'Default Route' is set to 'Ethernet Port 1'.

TCP/IP Port PPPoE DDNS E-mail UPnP 802.1x

IP Address Settings

☒ TOE Enable (Modifying toe status need to reboot)

Work Pattern Multiple Address Setting (Modifying wo

Ethernet Port 1 (Online) Ethernet Port 2 (Offline)

☐ Obtain an IPv4 address automatically

Address 192 . 168 . 1 . 15

Subnet Mask 255 . 255 . 255 . 0

Gateway 192 . 168 . 1 . 1

MTU 1500

☐ Obtain DNS automatically

Preferred DNS 8 . 8 . 8 . 8

Alternate DNS 8 . 8 . 4 . 4

Default Route Ethernet Port 1

Ethernet Port 2 is the default port that you will use to connect all your cameras from POE switches

****This avoids having multiple cameras using customer's local network. ****

In example below the network is:

IP Address:10.151.151.100

Subnet:255.255.255.0

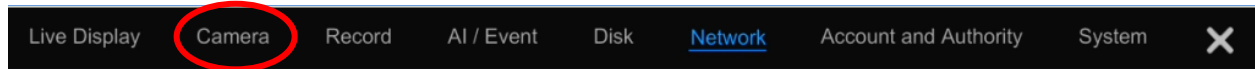
Gateway/Router: 10.151.151.1

The screenshot displays the 'TCP/IP' configuration page of an NVR. The 'IP Address Settings' section is active, showing 'TOE Enable' checked and 'Work Pattern' set to 'Multiple Address Setting'. Two network ports are listed: 'Ethernet Port 1 (Online)' and 'Ethernet Port 2 (Offline)', with the latter highlighted in blue. Below, the configuration for 'Ethernet Port 2' is shown, with a red box highlighting the IP address, subnet mask, and gateway fields. The 'Obtain an IPv4 address automatically' checkbox is unchecked. The 'Obtain DNS automatically' checkbox is also unchecked. The 'Preferred DNS' is set to 8.8.8.8, and the 'Alternate DNS' is set to 8.8.4.4. The 'Default Route' is set to 'Ethernet Port 1'.

Field	Value
Address	10 . 151 . 151 . 100
Subnet Mask	255 . 255 . 255 . 0
Gateway	10 . 151 . 151 . 1
MTU	1500
Preferred DNS	8 . 8 . 8 . 8
Alternate DNS	8 . 8 . 4 . 4
Default Route	Ethernet Port 1

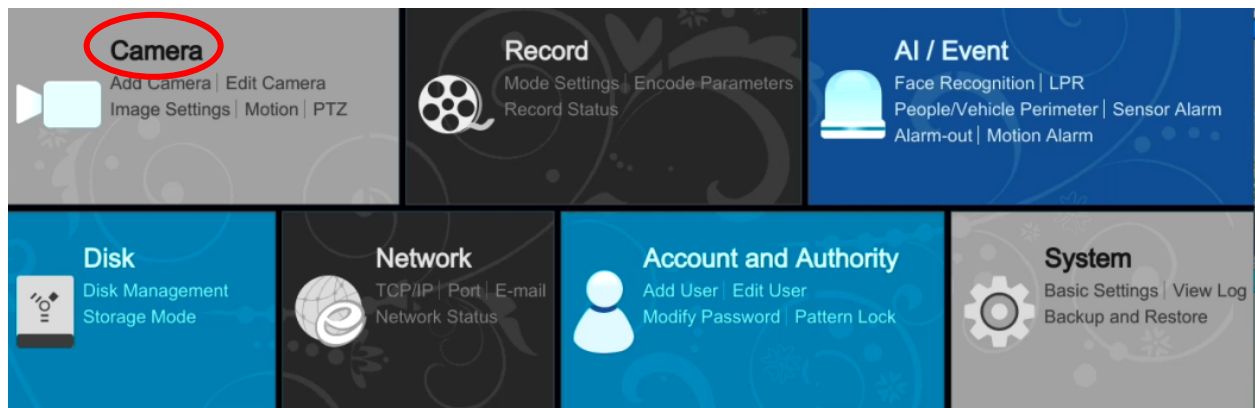
Adding cameras

In Main Menu click on Camera



If you accidentally clicked out of the menu:

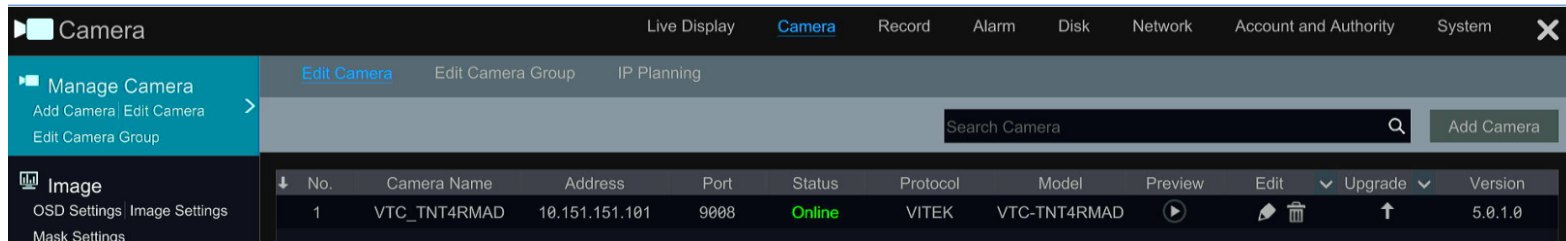
Click Start (Circle with 4 squares), Settings, then Camera



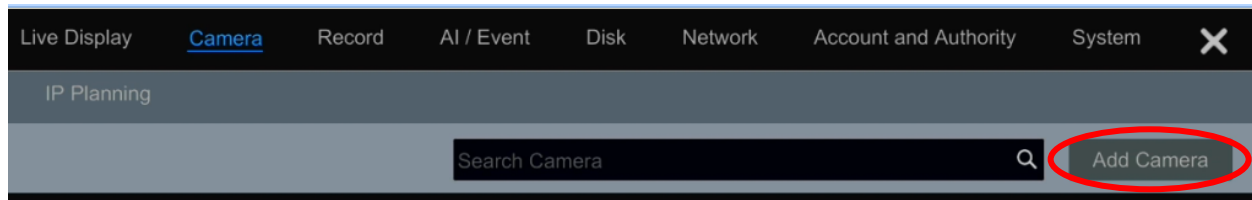
Here you will find the cameras currently added:

You can click on Edit to change Camera Name.

You can see the IP of the Camera(s), Status(online/offline), and firmware Version of camera.



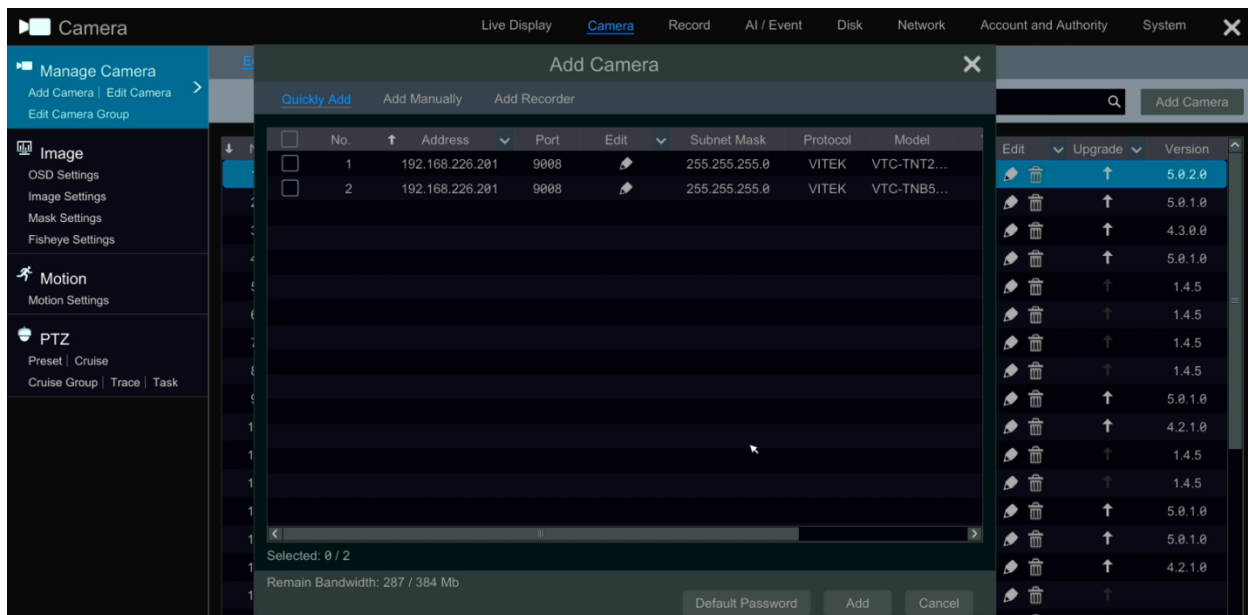
Click on Add Camera in the Top Right of the screen



This will bring up cameras currently being seen by the NVR and available to add.

In this example we will add 2 cameras.

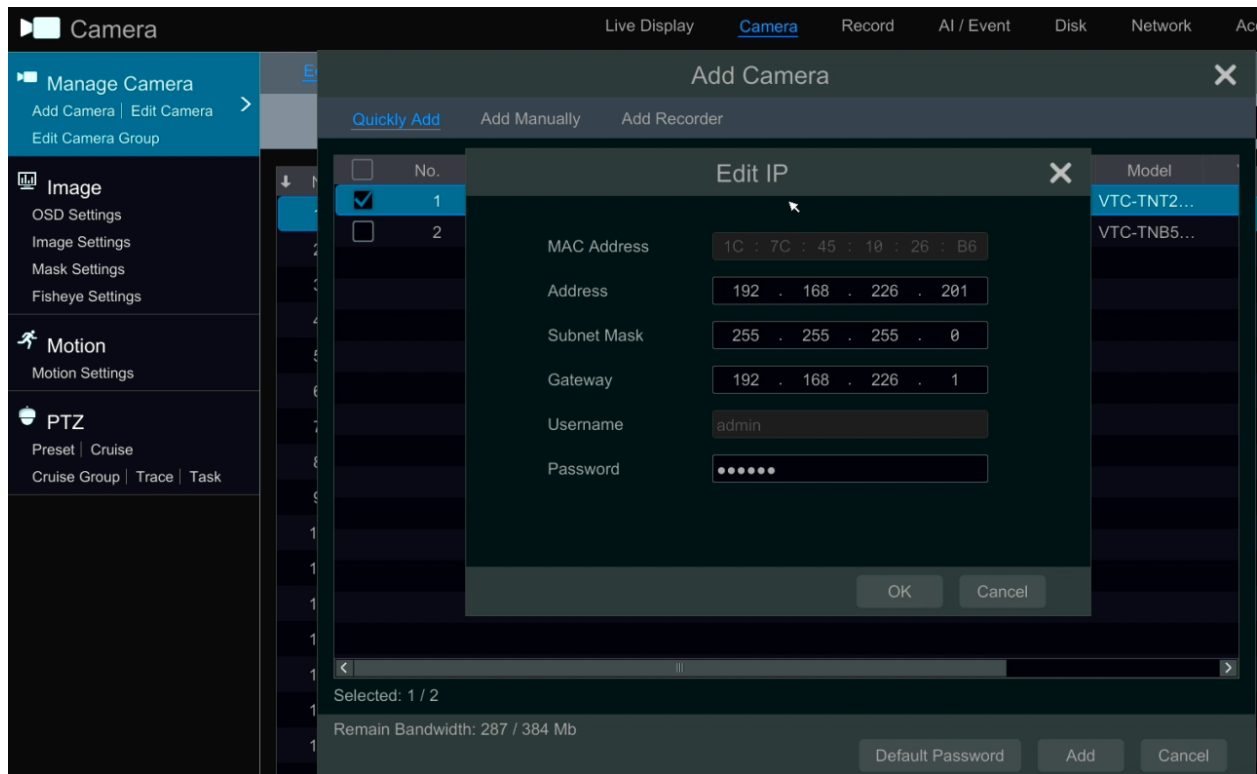
***You must address camera(s) to NVR Ethernet port 2 Address. ***



Edit Camera IP Address using NVR

By default, our Transcendent cameras all default to the same IP Address, 192.168.226.201.

To change/edit Address click on Edit before adding into the NVR.



Enter an available IP Address that corresponds with the NVR's Ethernet Port 2/Internal Address.

** In this example our NVR's Ethernet Port 2 Address is

IP Address:10.151.0151.100

Subnet:255.255.255.0

Gateway/Router: 10.151.151.1

So, I will give the cameras the following network Addresses

Camera 1:

IP Address:10.151.151.101

Subnet:255.255.255.0

Gateway/Router: 10.151.151.1

Camera 2:

IP Address:10.151.151.102

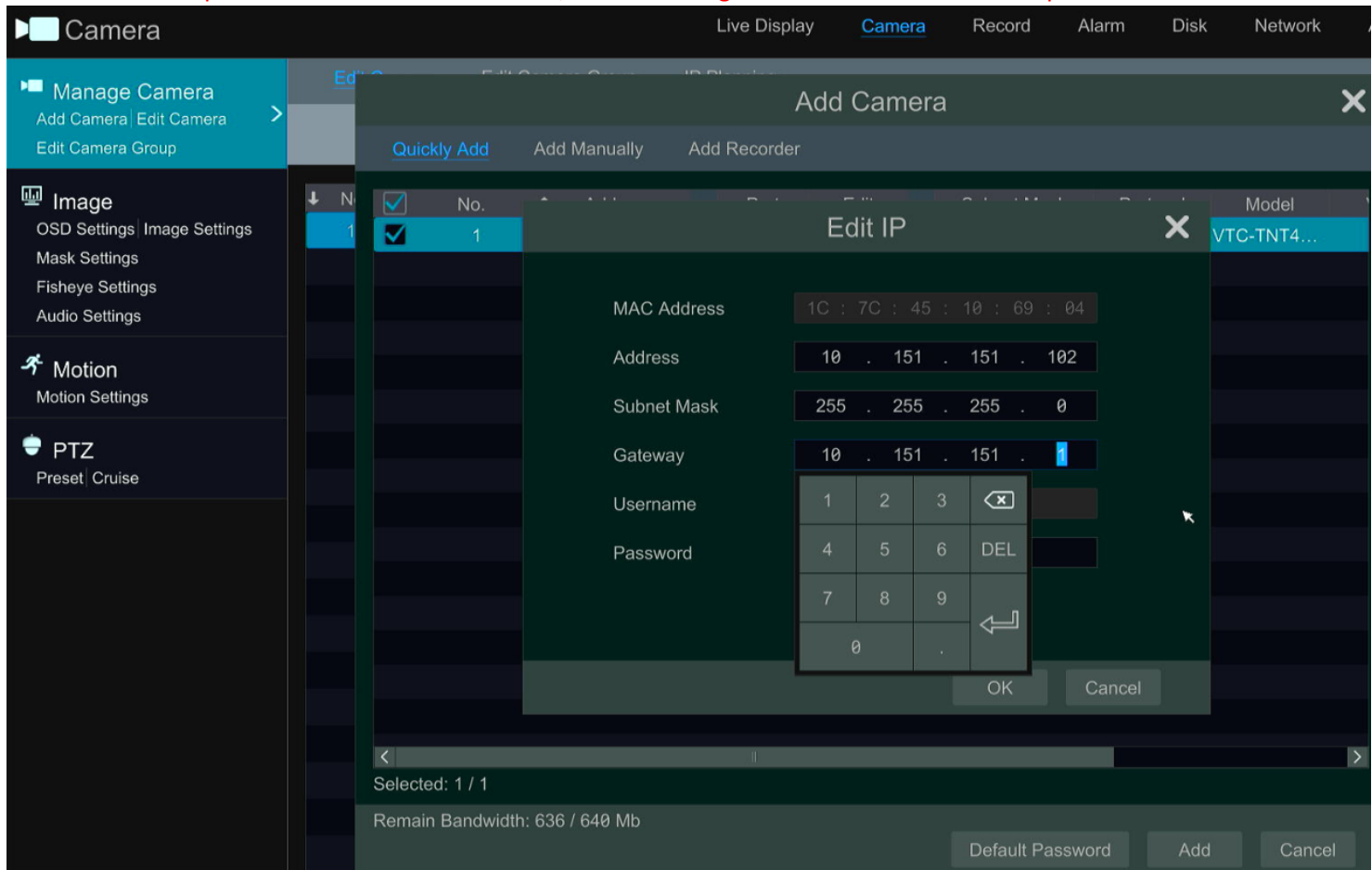
Subnet:255.255.255.0

Gateway/Router: 10.151.151.1

A keypad is available when you click on section you want to change.

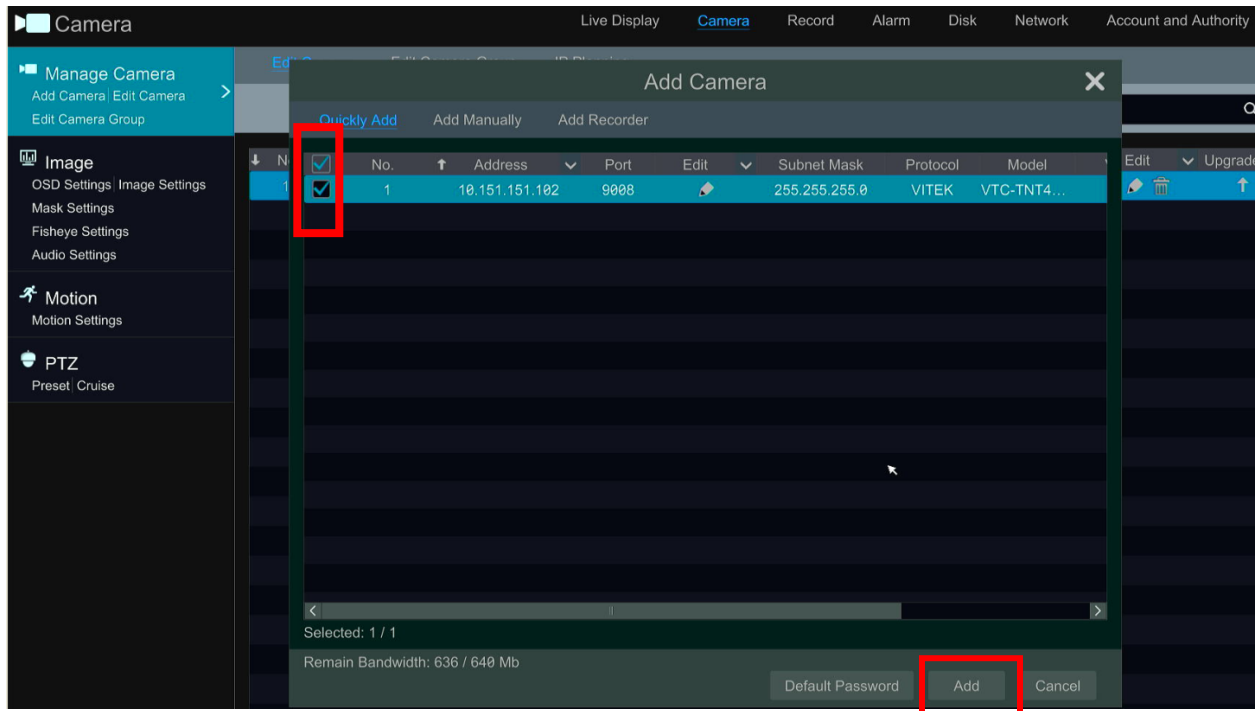
A keyboard is available when you click on section for username.

*****default password for cameras is 123456, if left unchanged there is no need to enter password****

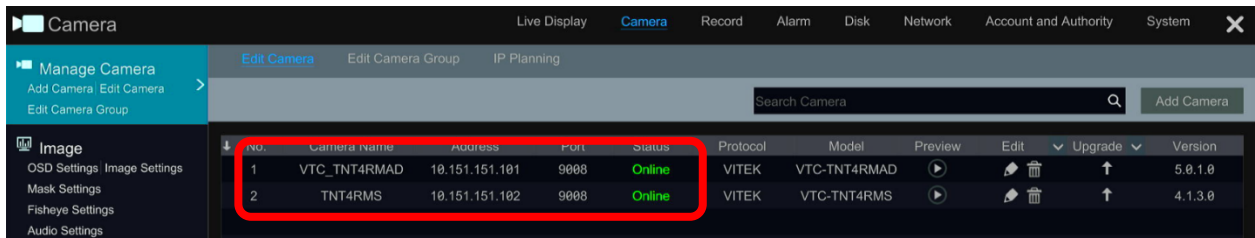


Camera(s) might disappear since changing the IP Address causes them to reboot.

Now that camera(s) are Addressed correctly. Click on checkmark and select Add on bottom Right.



Camera(s) should now appear on your list and status should be online.



Changing camera if it fails and goes offline

If a camera ever fails and you need to replace it you can view what that IP address should be for the replacement camera, example below shows the camera with IP address of 10.151.151.101 is offline, this would be the address that would need to be used in the replacement camera

No.	Camera Name	Address	Port	Status	Protocol	Model	Preview	Edit	Upgrade	Version
1	VTC_TNT4RMAD	10.151.151.101	9008	Offline	VITEK	VTC-TNT4RMAD				5.0.1.0
2	TNT4RMS	10.151.151.102	9008	Online	VITEK	VTC-TNT4RMS				4.1.3.0

Connect new camera to POE Switch. And go to Menu (circle with 4 squares), Settings and in the Main Menu click on Camera.

The screenshot shows the 'Camera' management interface. On the left, there's a sidebar with 'Manage Camera' (Add Camera, Edit Camera, Edit Camera Group) and 'Image' settings. The main area has tabs for 'Edit Camera', 'Edit Camera Group', and 'IP Planning'. A search bar and an 'Add Camera' button are visible in the top right.

In the top right select add camera

This is a close-up of the 'Add Camera' button located in the top right corner of the 'Camera' management section. The button is highlighted with a red circle.

Camera will appear with default address, 192.168.226.201. Click on edit and change the address of the new camera to IP Address of the one that went offline.

For this example, I will change it to

IP Address: 10.151.151.101

Subnet: 255.255.255.0

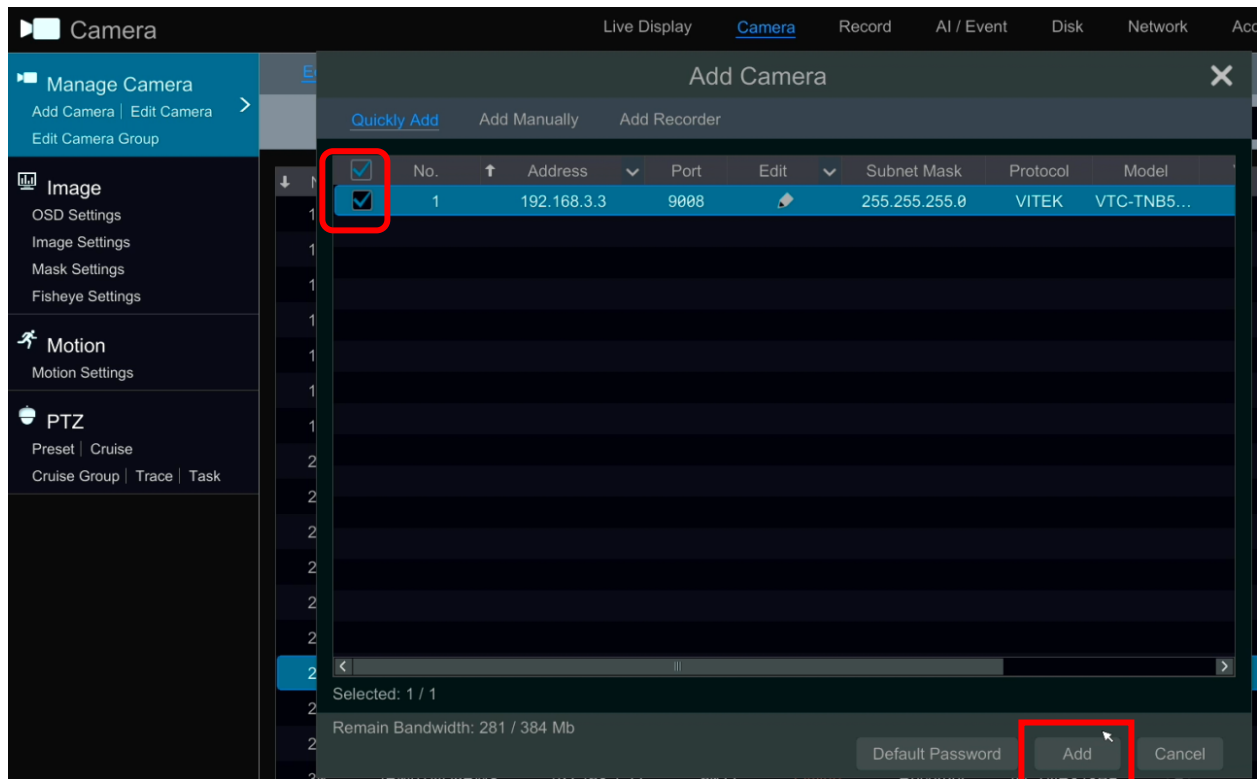
Gateway/Router: 10.151.151.1

The screenshot shows the 'Add Camera' dialog box. The 'Quickly Add' tab is selected, displaying a table with the following information:

No.	Address	Port	Subnet Mask	Protocol	Model
1	192.168.226.201	9008	255.255.255.0	VITEK	VTD-TND8...

Camera(s) might disappear since changing the IP Address causes them to reboot.

Now that camera(s) are Addressed correctly. Click on checkmark and select Add on bottom Right.



New camera should be online now

No.	Camera Name	Address	Port	Status	Protocol	Model	Preview	Edit	Upgrade	Version
1	IP Camera	10.151.151.101	9008	Online	VITEK	VTD-TND8RFE-2				4.2.1.0
2	TNT4RMS	10.151.151.102	9008	Online	VITEK	VTC-TNT4RMS				4.1.3.0

Notes:

One thing that was brought up was since the NVR cannot tell you which POE port on switch went bad would be a great idea to label cables to match camera title, so you know which POE cable goes to which camera.

