

# Quick Start Guide

**Plug 'n Play NVR**  
DS-7604NI-E1/4P  
DS-7608NI-E2/8P

**Note:** For more information refer to the complete User Manual located on the CD-ROM

## OVERVIEW

1. Overview
2. Main Menu Layout
3. Formatting the HDD
4. Setting up Time/Date
5. Setting up The Network
6. Adding IP Cameras (Non-PoE Models)
7. Setting up Recording
8. Configuring the Mobile APP
9. Playing Back Recorded Video
10. Making a Backup

Please connect a monitor and a USB mouse (supplied) to the NVR for configuration purposes

## 1. OVERVIEW

### WHAT'S IN THE BOX

#### THE BOX CONTAINS:



NVR



USB Mouse



IR Remote  
(Batteries not included)



Power Cord



Hard Drive Mounting  
screws and brackets



Hard Drive  
(Preinstalled)



Hard Drive Cables



Rack Mount Ear  
(not included in 4-ch  
model box)



Quick Start Guide



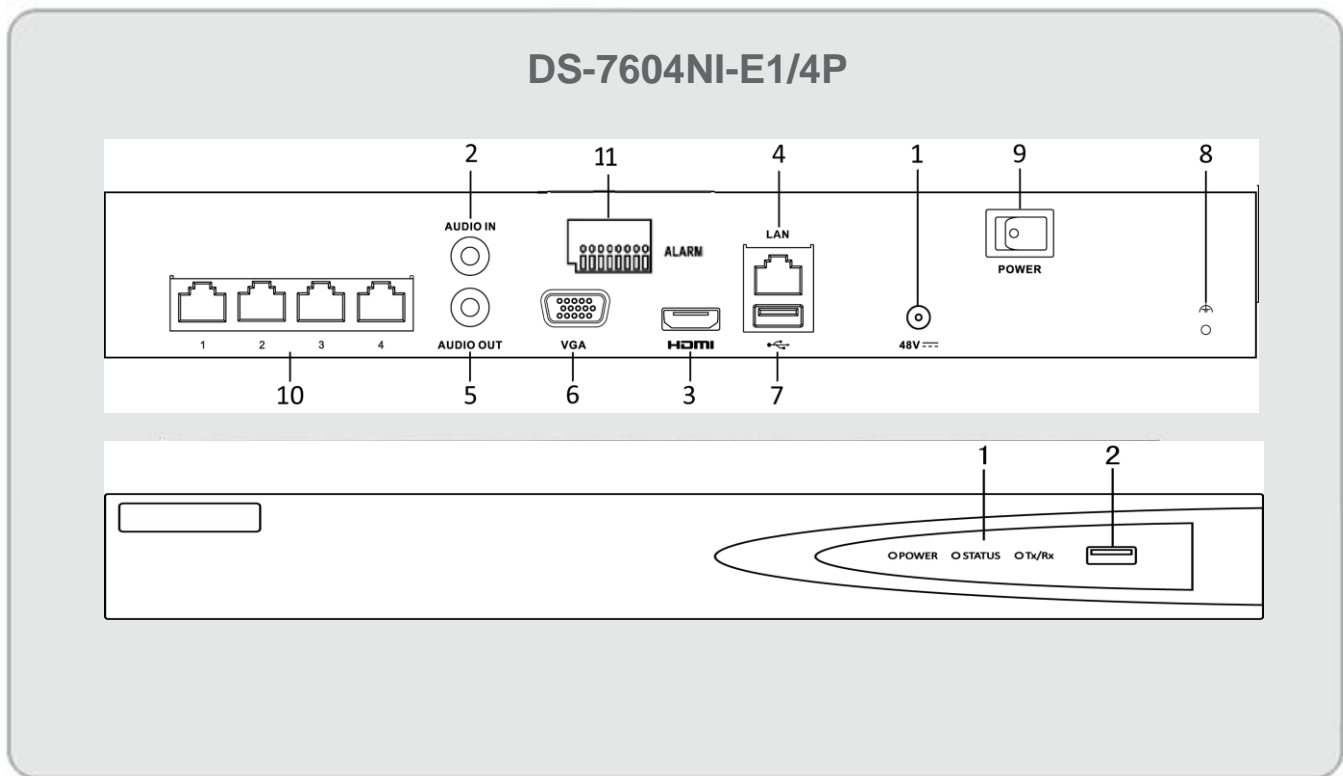
Manual/Software CD

Please note, that the Quick Start Guide is compiled for the latest firmware versions. Please upgrade the firmware of the NVR to the latest version before proceeding. Also note, that the CD may contain outdated manuals and software.

For the latest firmware, manual and software downloads please visit:

[www.hikvision.com/en/us/download.asp](http://www.hikvision.com/en/us/download.asp)

## FRONT AND REAR VIEW



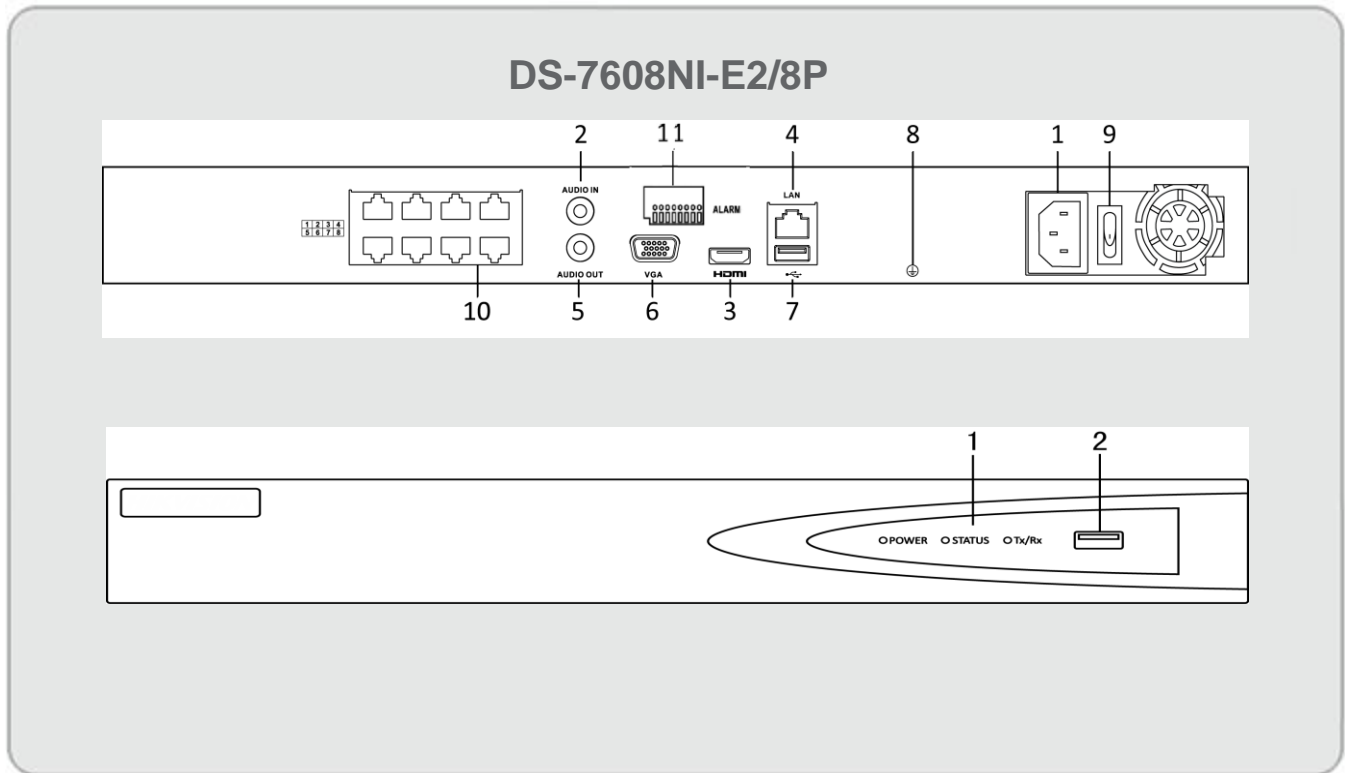
REAR VIEW

FRONT VIEW

1. Power Supply Port
2. Audio In
3. HDMI Monitor Output
4. Network Interface(RJ45)
5. Audio Out
6. VGA Output
7. USB Port
8. Grounding Screw
9. Power Switch
10. Built in POE Switch
11. Alarm In/Out

1. Power, Status and Tx/Rx indicators
2. USB Port

## FRONT AND REAR VIEW



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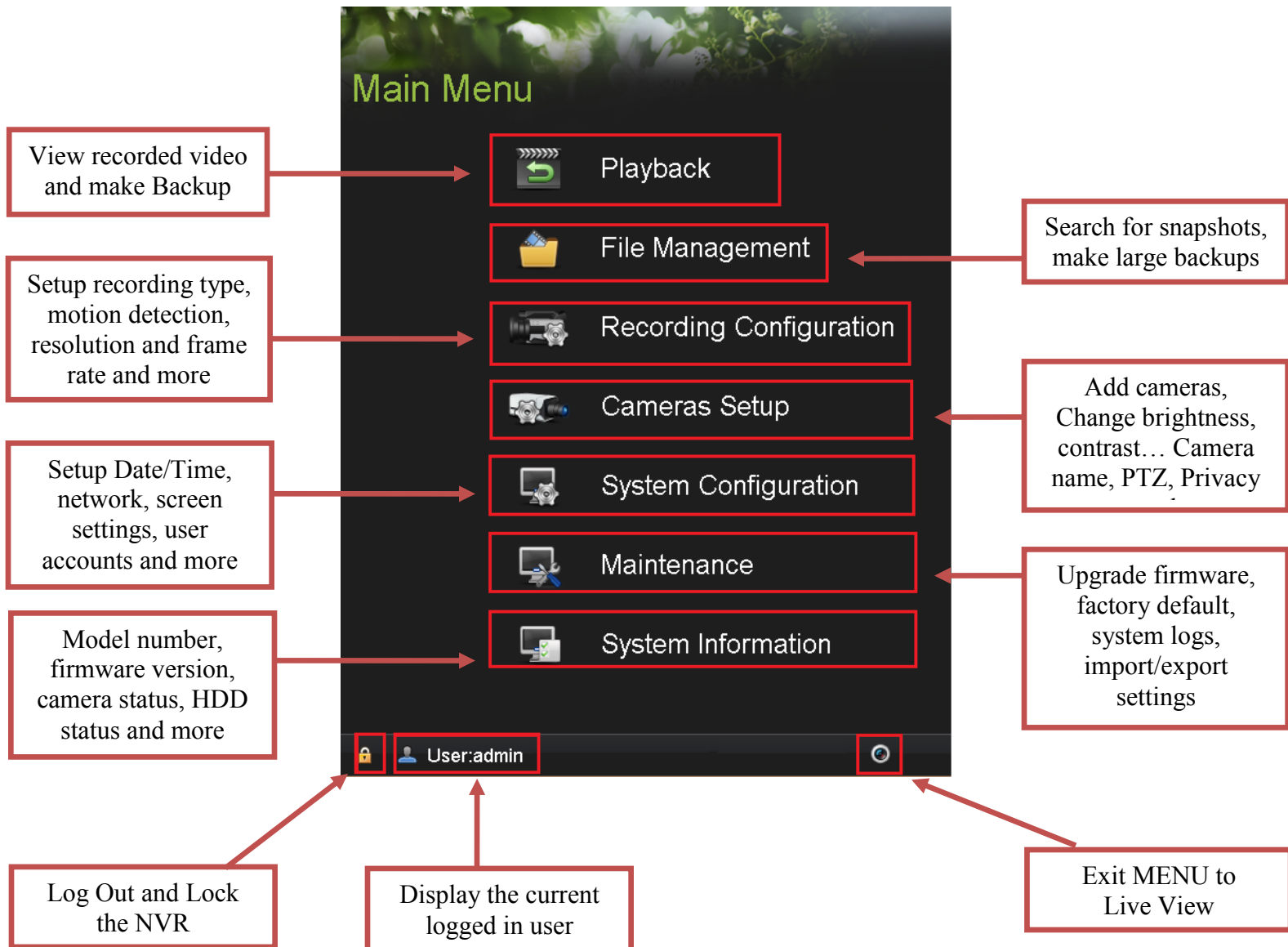
1. Power, Status and Tx/Rx indicators
2. USB Port

## 2. MAIN MENU LAYOUT

### MAIN MENU LAYOUT

DEFAULT USERNAME: **admin**    DEFAULT PASSWORD: **12345**  
(Please note, that the username and password are case sensitive)

**IT IS STRONGLY RECOMMENDED TO CHANGE THE DEFAULT PASSWORD**



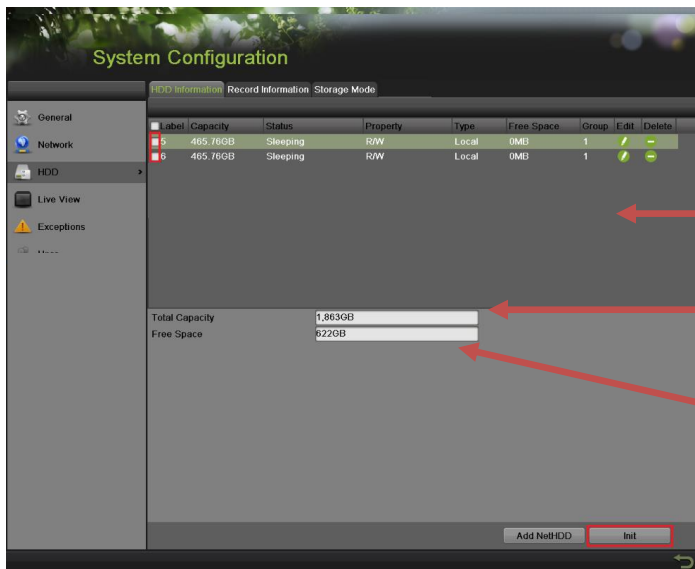
## 3. FORMATTING THE HARD DRIVE

### FORMATTING THE HARD DRIVE

If the Hard Drive (HDD) is not formatted (initialized), the NVR will begin to beep. The beeping will continue until the HDD is formatted. To format the HDD, go to:

**“MENU” > “SYSTEM CONFIGURATION” > “HDD”**

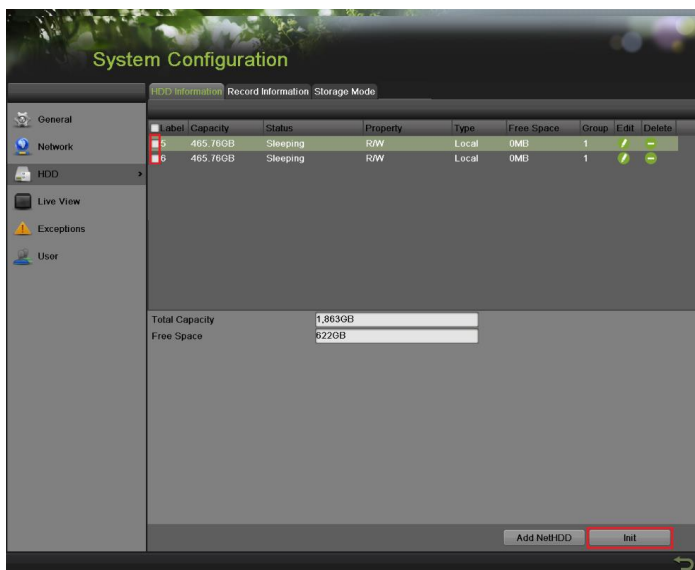
**Select the HDDs that need to be formatted, and press “INIT”**



List of HDDs

Total HDD Space

Free Space



**Please Note:**

**Units purchased with HDDs,  
already come with formatted  
HDDs**

**Formatting the HDDs also erases  
the recorded video from the HDDs  
(this does not affect the settings).**

## 4. SETING UP DATE/TIME

### DATE AND TIME SETUP

To setup the Time and Date on a NVR, please go to:

“MENU” > “SYSTEM CONFIGURATION” > “GENERAL”

The screenshot displays the 'System Configuration' interface with the 'General' tab selected. The 'Time/Date' section is active, showing the following settings:

- Date Format: YYYY-MM-DD
- System Date: 2014-07-18
- System Time: 15:40:03
- Time Zone: (GMT-08:00) Pacific Time ( )
- Enable DST:  Customize
- Enable NTP:
- Interval (min): 0
- NTP Server: [Empty field]
- NTP Port: 0

Red arrows point from three callout boxes to specific settings:

- NTP Settings** points to the 'Enable NTP' checkbox and the 'Interval (min)', 'NTP Server', and 'NTP Port' fields.
- Time Zone and Daylight Savings Time settings** points to the 'Time Zone' dropdown and the 'Enable DST' checkbox.
- Date and Time settings** points to the 'System Date' and 'System Time' fields.

An 'Apply' button is located at the bottom right of the configuration area.



## 5. SETTING UP THE NETWORK

### SETTING UP NETWORK ACCESS

Networking a NVR requires 3 steps:

1. Assign an **IP address, Default Gateway, Subnet Mask, and a DNS server (Please note: DNS, not DDNS)** to the NVR
2. Forward the appropriate ports on the router (**Port Forwarding**).
3. Register **DDNS** (DDNS registration is required only if the public IP address is Dynamic).

To assigning an **IP ADDRESS**, go to “MENU”>”SYSTEM CONFIGURATION”>”NETWORK”

**General**

**System Configuration**

General | **Network** | DDNS | Email | SNMP | NAT | More Settings

General | **Network** | HDD | Live View | Exceptions | User

NIC Type: 10M/100M Self-adapt

Enable DHCP:

IPv4 Address: 10.18.0.11 | IPv6 Address 1: fe80::c256:e3ff:fe02:42a

IPv4 Subnet Mask: 255.255.255.0 | IPv6 Address 2:

IPv4 Default Gateway: 10.18.0.254 | IPv6 Default Gateway:

MTU(Bytes): 1500 | MAC Address: c0:56:e3:02:42:a0

DNS Server

Preferred DNS Server: 10.1.7.88

Alternate DNS Server: 10.1.7.77

Internal NIC IPv4 Addr...: 192.168.254.1

**REFRESH**

Refresh | Apply

#### Enable DHCP

With DHCP enabled, the router will assign an IP address to the NVR

#### Please Note:

After enabling DHCP, The IP configuration becomes “Greyed out”

#### IP CONFIGURATION

- Please note that the NVR’s default IP Address is set to **192.0.0.64**

## SETTING UP NETWORK ACCESS

### Step 1.

Enable **DHCP** (check the checkbox). Press “**APPLY**” and then press “**REFRESH**”

### Step 2.

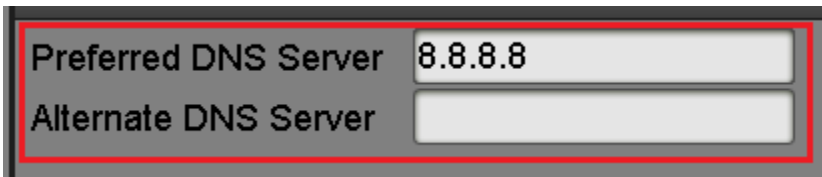
After pressing refresh, the **IPv4 Address**, **IPv4 Subnet Mask** and **IPv4 Default Gateway** will have new values.

### Step 3.

Disable **DHCP** (uncheck the checkbox)

### Step 4.

Change the value of “**PREFERRED DNS SERVER**” to **8.8.8.8** (“**ALTERNATE DNS SERVER**” can be left blank).

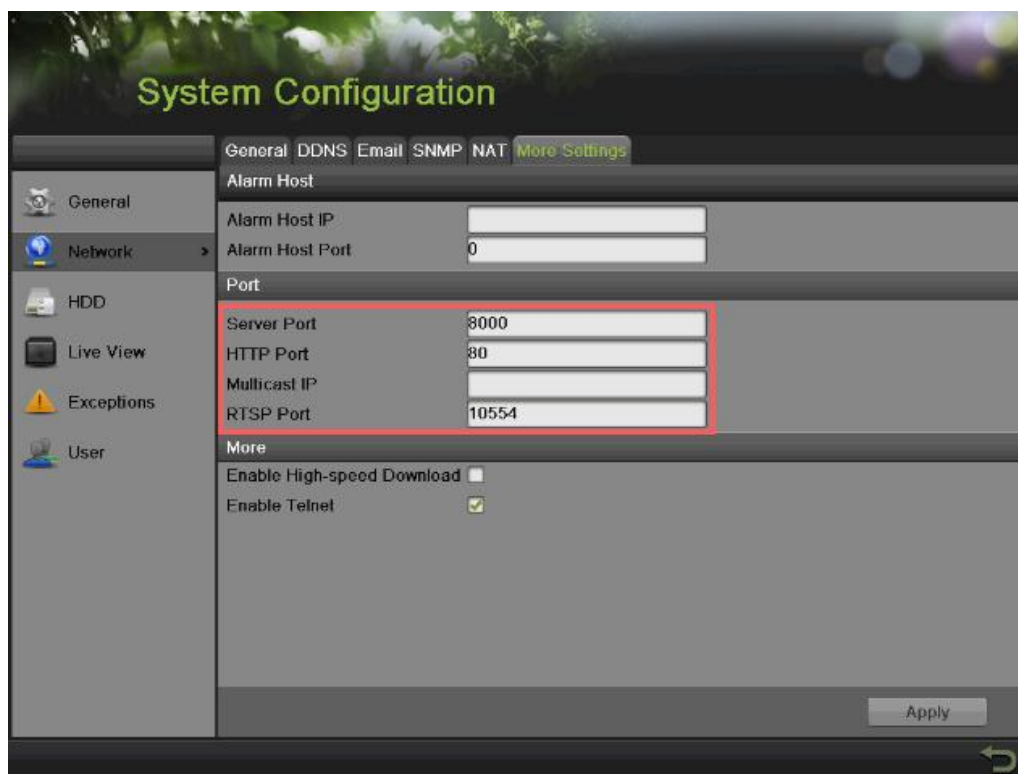
A screenshot of a web interface showing two input fields for DNS servers. The top field is labeled "Preferred DNS Server" and contains the text "8.8.8.8". The bottom field is labeled "Alternate DNS Server" and is empty. A red rectangular box highlights both input fields.

After assigning the IP information, click on the “**MORE SETTINGS**” tab



## SETTING UP NETWORK ACCESS

The “**MORE SETTINGS**” tab contains the ports that need to be forwarded for remote access



The **SERVER PORT** is responsible for the **MOBILE APP** and **CLIENT SOFTWARE** log-in.

The **HTTP PORT** is responsible for **WEB BROWSER** log-in.

The **RTSP PORT** is responsible for **VIDEO/AUDIO STREAMING**.

The **HTTP PORT** and the **SERVER PORT** can be changed if desired, in order to avoid conflicts with the **ISP** or the existing network configuration.

### PORT FORWARDING

After assigning the IP information to the NVR, connect a computer to the same router that the NVR is connected to (wired connection is recommended, to avoid complications). Log into the **ROUTER**, and proceed with **PORT FORWARDING**.

For **PORT FORWARDING** assistance contact the Internet Service Provider (**ISP**), or the router manufacturer. Also refer to [www.portforward.com](http://www.portforward.com) for port forwarding step by step instructions. Please be aware, that Hikvision USA is not associated with [www.portforward.com](http://www.portforward.com), and not responsible for any activity between the user and [www.portforward.com](http://www.portforward.com). Please refrain from downloading any software from the abovementioned website.

Proceed to the “**ROUTERS**” section for step by step instructions.

### DDNS SETUP

DDNS registration has been made more user friendly, and takes only a few seconds to complete. The legacy units require user registration on [www.hik-online.com](http://www.hik-online.com). This step is no longer needed.

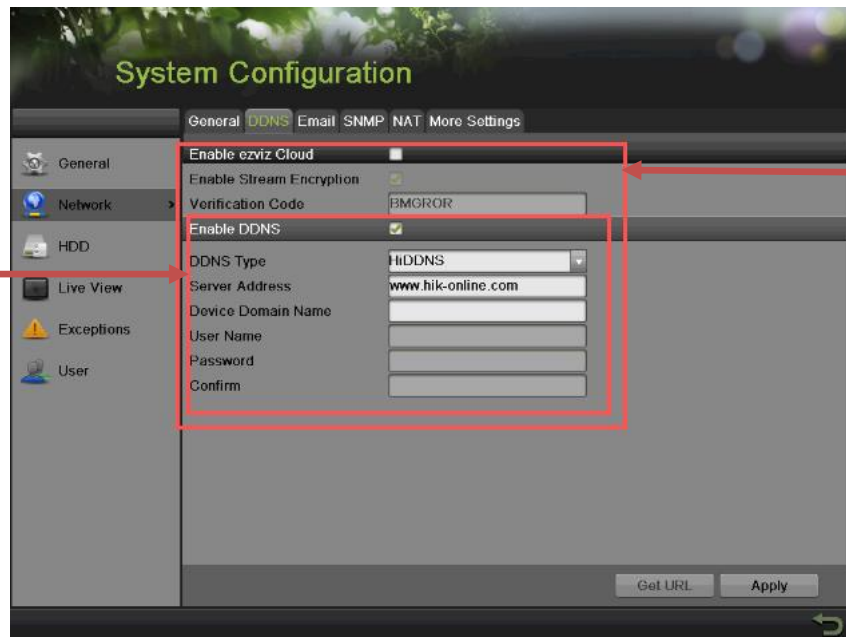
Click on the DDNS tab



In the **DDNS** tab:

- a. Enable DDNS
- b. Change the **DDNS TYPE** to **HiDDNS** (in some cases **HkDDNS**)
- c. Make sure that the **SERVER ADDRESS** is set to [www.hik-online.com](http://www.hik-online.com)
- d. Create a **DEVICE DOMAIN NAME** (the domain name **CANNOT** contain **spaces, special characters and/or upper case letters, as well as it cannot begin with a number**)

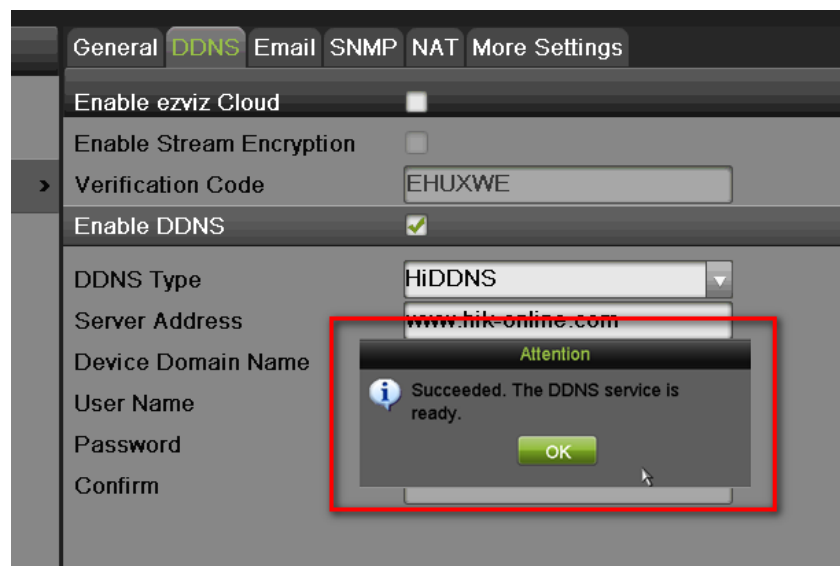
## SETTING UP NETWORK ACCESS



Enable DDNS and  
create a DOMAIN  
NAME

EZVIZ is used for a  
connection through a  
secure server.  
In this case port  
forwarding is not  
required.  
**Please contact  
Technical Support  
for detailed  
information**

After the changes have been made, presses “APPLY”. A “SUCCESS” message will pop up



If the Domain Name does not meet the acceptable criteria, and/or is already registered, an error message will appear (The domain name cannot contain upper case characters, begin with a number, spaces, special characters...).

## 6. ADDING IP CAMERAS

### ADDING IP CAMERAS

Go to:

“MENU”>”CAMERAS SETUP”

Cam	Add/De	Status	IP Camera A.	Edit	Up...	Camera Name	Protocol	Device Model	Manag...	Serial No.
D1	[-]	[▲]	10.9.6.235	[/]	[-]	IPCamera 01	HIKVISION		8000	
D2	[-]	[▲]	192.168.1.70	[/]	[-]	IPCamera 02	HIKVISION		8000	
D3	[-]	[▲]	10.9.6.34	[/]	[-]	IPCamera 03	HIKVISION		8000	
D4	[-]	[○]	10.9.6.40	[/]	[↑]	DS-2CD726...	HIKVISION DS-2CD7264FW...		8000	DS-2CD7...
D5	[-]	[▲]	10.9.6.2	[/]	[-]	Camera 01	HIKVISION		8000	
D6	[-]	[▲]	10.9.6.3	[/]	[-]	Camera 01	HIKVISION		8000	
D16	[-]	[○]	10.9.6.244	[/]	[↑]	Camera 01	HIKVISION DS-2CD4124F-I7		8000	DS-2CD4...
			192.0.0.64	[/]	[-]		HIKVISION DS-2CD2632F-I		8000	44685442
			192.0.0.198	[/]	[-]		HIKVISION DS-2CD8254FW...		8000	42302722
			10.9.6.43	[/]	[-]		HIKVISION DS-2CD2232-I5		8000	44151934

Press the “MINUS” icon to delete an added camera

Press “+” to add the camera to the NVR

Press “EDIT” to change the camera’s IP address.

Please refer to the manual for detailed information

“REFRESH” to find cameras connected to the network

List of detected cameras (YELLOW)

List of added cameras (WHITE)

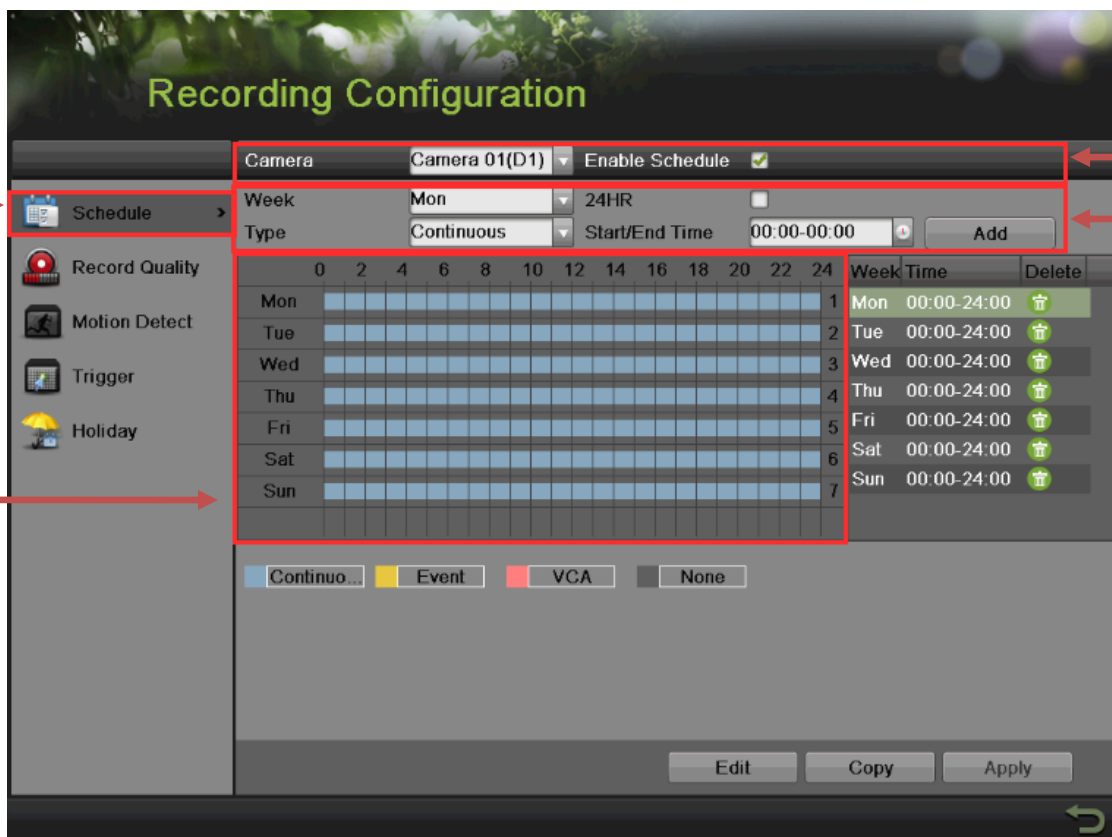
- Please note: To change the CAMERA NAME go to OSD

## 7. SETTING UP RECORDING

### SETTING UP RECORDING

Hikvision NVRs are defaulted to **CONTINUOUS RECORDING**.

Please go to: “MENU”>”RECORDING CONFIGURATION”



Setup Recording Schedule  
(Continuous/Event)

The color of the calendar is what constitutes the recording schedule:

1. **Blue=Continuous**
2. **Yellow=Event (Motion/Alarm)**
3. **Pink=VCA Event**
4. **Grey= No Recording**

This field is used to customize a part of the existing schedule  
**This can be ignored if setting up event only recording**

- **Please note:** If **ENABLE SCHEDULE** is not checked, then that camera would not be recording

Select the camera.  
Enable/Disable the schedule

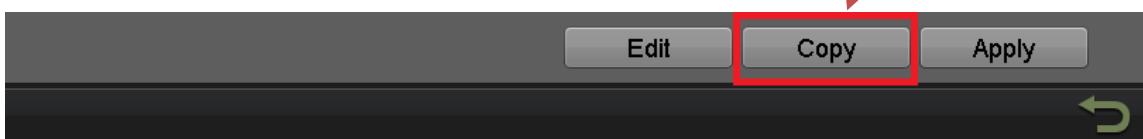
## SETTING UP RECORDING

To set the NVR to **MOTION RECORDING**, go to:

1. “MENU”>”RECORDING CONFIGURATION”
2. Click on the “**EVENT**” under the calendar (yellow). After this the mouse cursor will change to a **WAND**.
3. Select the calendar, and it will turn **YELLOW** (just like on a computer, click on the top-left corner of the calendar and drag to the bottom-right corner).
4. Press **APPLY**.

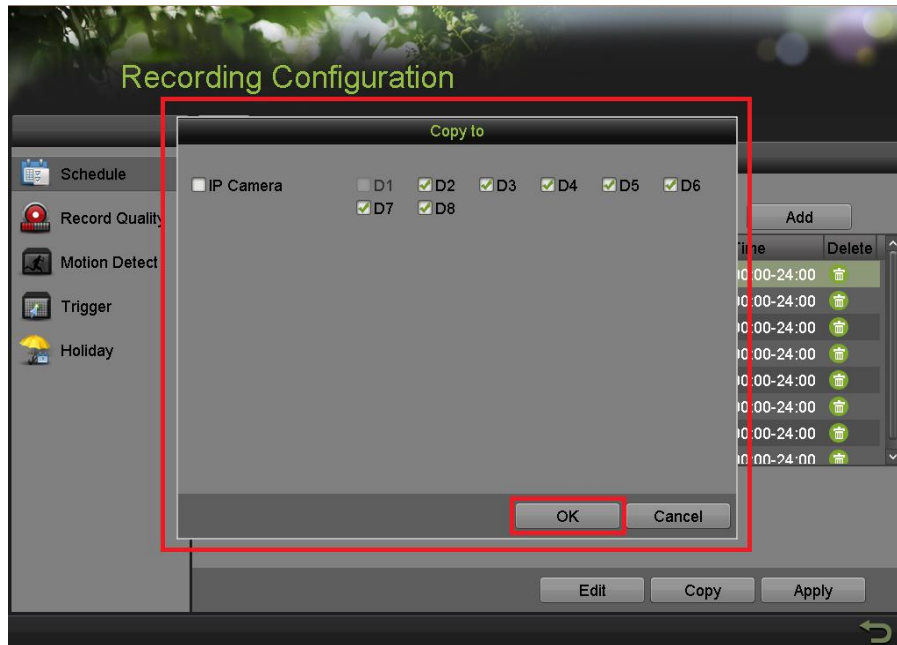


5. Press **COPY** to copy the new schedule to the remaining cameras.

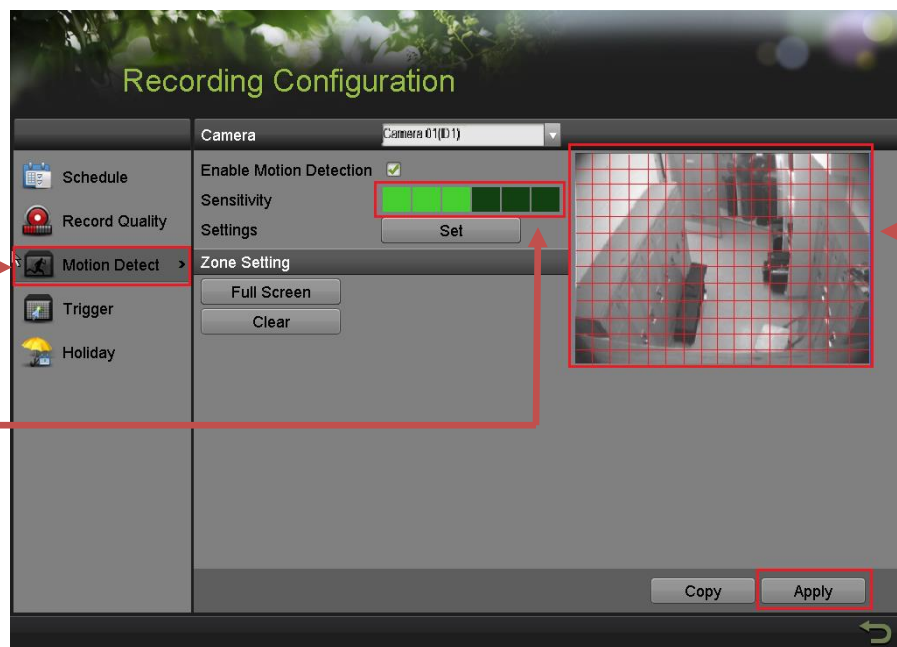




## SETTING UP RECORDING



After the recording has been set to “EVENT RECORDING” go to “MOTION DETECT” to set the motion detection for every camera. In this step, the IP cameras need to be configured individually.



**Motion Detection Setup**

**Motion Sensitivity**  
The amount of bright green squares indicates the sensitivity level. (in this picture the sensitivity is set to 3)

**Motion Area**  
The grid indicates the area, where motion will be detected

## SETTING UP RECORDING

To set the recording **RESOLUTION/FRAMERATE/BITRATE** settings, please go to:

”**RECORD QUALITY**” in the “**RECORDING CONFIGURATION**” submenu

The screenshot shows the 'Recording Configuration' window for 'Camera 01(D1)'. The interface is divided into a left sidebar and a main configuration area. The sidebar includes options like 'Schedule', 'Record Quality', 'Motion Detect', 'Trigger', and 'Holiday'. The main area is split into 'Main Stream' and 'Substream Record' tabs. The 'Main Stream' tab is active, showing settings for 'Recording Mode', 'Stream Type', 'Resolution', 'Bitrate Type', 'Video Quality', 'Frame Rate', 'Max. Bitrate Mode', 'Max. Bitrate(Kbps)', 'Max. Bitrate Recommended', 'Record Audio', 'Video Stream', and 'Recording Time (days)'. The 'Recording Mode' is set to 'Continuous'. The 'Stream Type' is 'Video & Audio'. The 'Resolution' is '1280\*720(HD720P)'. The 'Bitrate Type' is 'Variable'. The 'Video Quality' is 'Full Frame'. The 'Frame Rate' is 'General'. The 'Max. Bitrate Mode' is '2048'. The 'Max. Bitrate(Kbps)' is '2048'. The 'Max. Bitrate Recommended' is '3072(Kbps)'. The 'Record Audio' checkbox is checked. The 'Video Stream' is 'Main Stream'. The 'Recording Time (days)' is '0'. There are 'Copy', 'Apply', and 'Return' buttons at the bottom right.

**Select Main Stream**

**Record Quality**

**Select Camera**

**Continuous**  
Pertains to live view image as well as continuous recording

**Event**  
Pertains to event recording only (Motion or alarm)

## SETTING UP RECORDING

**Stream Type** allows enable/disable the audio streaming from the cameras (if the camera does not have audio capabilities, then the **Stream Type** will only have **Video** option)

**Resolution** allows setting of the recording resolution

**Bitrate Type** allows the NVR to save HDD space when set to **Variable** (Available choices: **Variable** and **Constant**)

**Video Quality** adjusts picture clarity (**medium setting (3 green squares)** is recommended. Medium setting is the balance between good picture and saving HDD space).

**Frame Rate** allows setting of the recording frame rate (**12-15 fps** is recommended to save HDD space and not to have a “choppy” image)

**Max Bitrate Mode** allows choosing between preset bitrate values and customizing the values (**General** setting is recommended)

**Max Bitrate (KBPS)** is the chosen bitrate for streaming the video

**Max Bitrate Recommended** is the NVR’s recommended bitrate according to the parameters set above.

**Record Audio** allows turning the audio recording on or off (this option is only available if the camera has a microphone connected to it, or only the analog channels 1-4 on the hybrid NVR).

**Video Stream** allows changing the recording stream between **Main Stream** and **Sub Stream** (this step requires a restart).

Please refer to the table below for recommended recording parameters

Resolution	Video Quality	Frame Rate (FPS)	Bitrate (KBPS)
320x240 (QVGA)	Medium (3 squares)	12-15	207
352x240 (CIF)	Medium (3 squares)	12-15	384
640x480 (VGA)	Medium (3 squares)	12-15	768
704x480 (4CIF)	Medium (3 squares)	12-15	1024
1280x720 (720P)	Medium (3 squares)	12-15	2048
1280x960 (960P)	Medium (3 squares)	12-15	2048
1600x1200 (2MP)	Medium (3 squares)	12-15	2560
1920x1080 (1080P)	Medium (3 squares)	12-15	3072
2048x1536 (3MP)	Medium (3 squares)	12-15	3072
2560x1920 (5MP)	Medium (3 squares)	8	4096

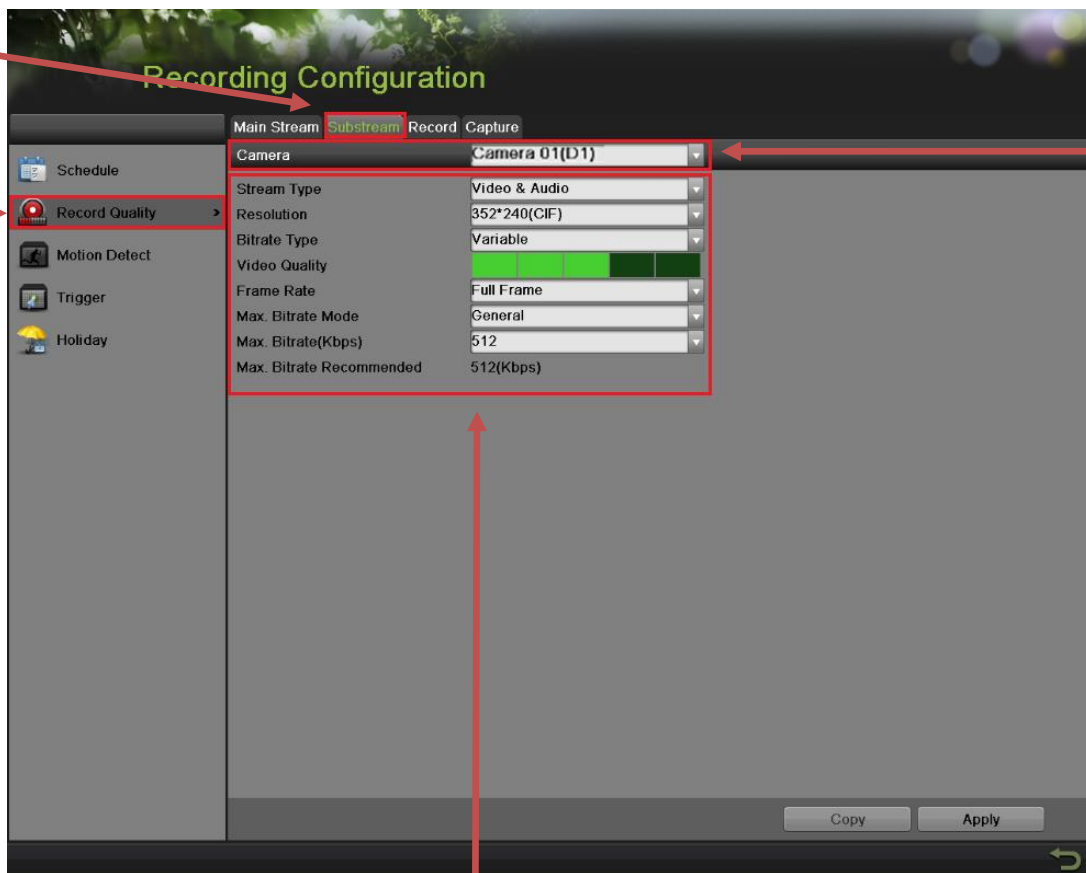
## SETTING UP RECORDING

Last step in the recording setup is setting up the **Sub Stream**.

The **Sub Stream** is used for streaming on mobile devices, as well as displaying multiple cameras on the local output

Select  
Sub  
Stream

Record  
Quality



Unlike Main Stream,  
Sub Stream can only go up to 4CIF

Select  
Camera

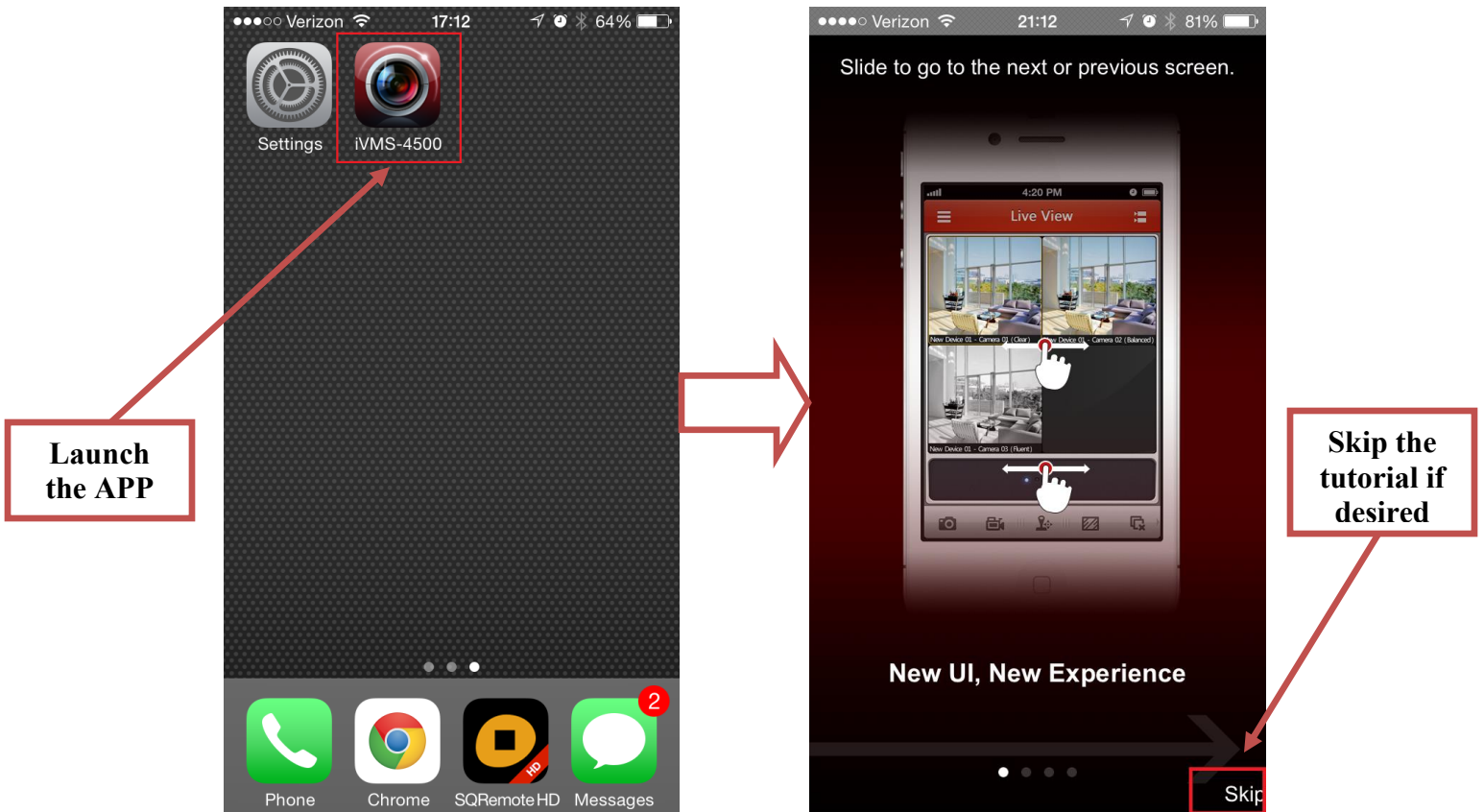
- **Please note:** If the upload speed is not sufficient, consider lowering the frame rate/bitrate/resolution for more fluent mobile app viewing.

## 8. CONFIGURING THE MOBILE APP

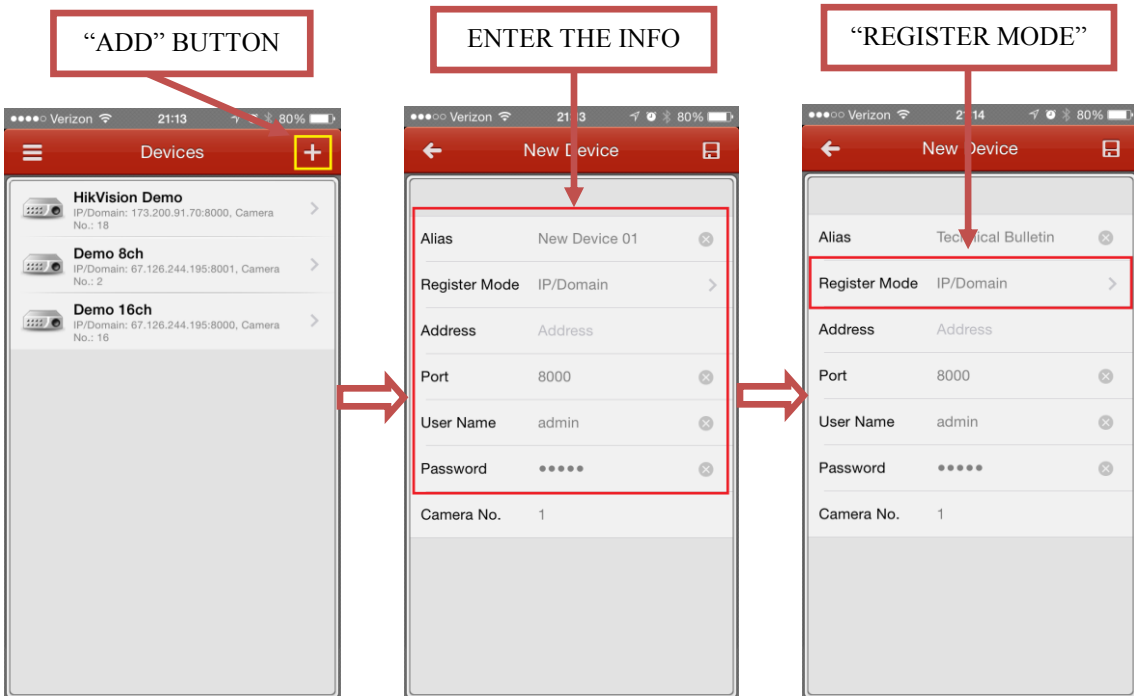
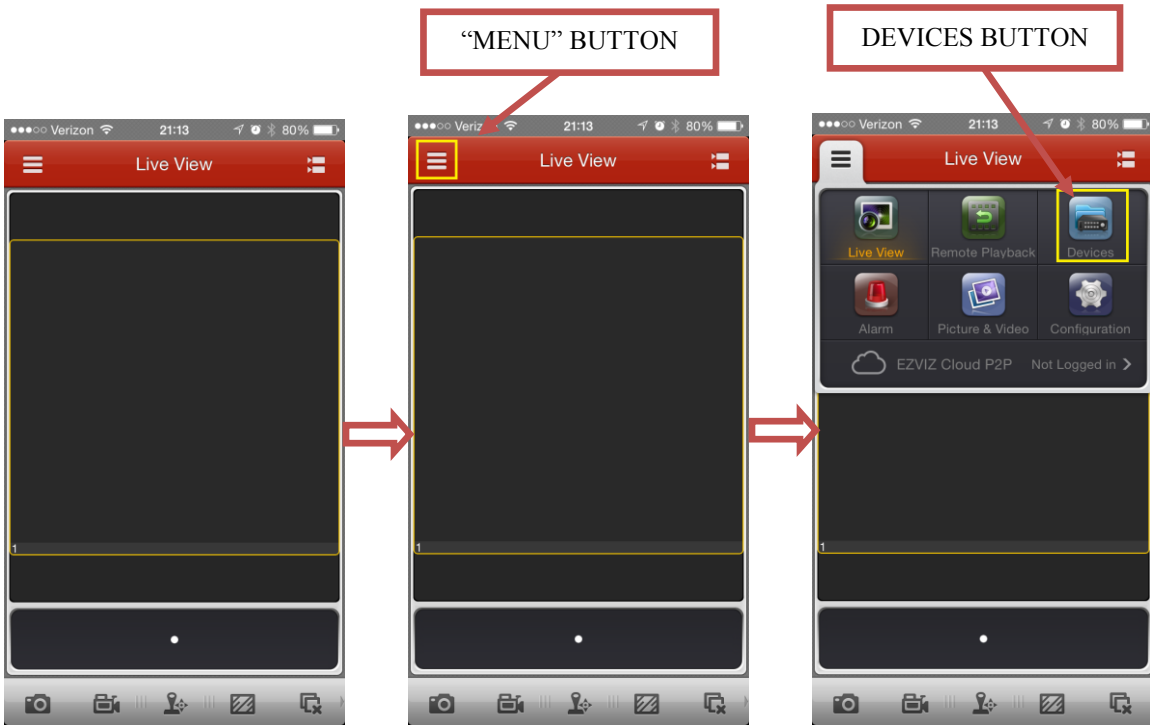
### CONFIGURING THE MOBILE APP

All Hikvision DVRs, NVRs and IP Cameras can be accessed with **iVMS-4500 application**. The APP can be downloaded from the **APP STORE (iPhone/iPad)**, **PLAYSTORE (Android)**. The app is also available for **WINDOWS MOBILE** devices (Nokia Phones and tablets).

Download the app from the appropriate place and launch it. When the APP is launched for the first time, a tutorial screen will be displayed, and it can be easily skipped.

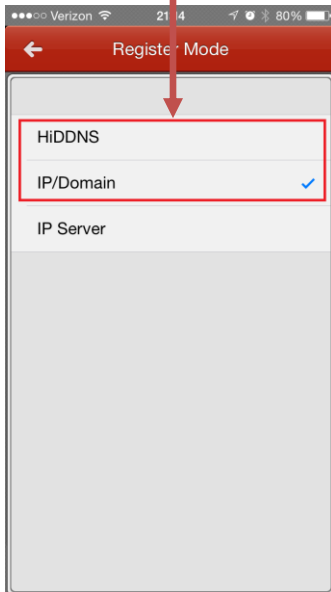


## CONFIGURING THE MOBILE APP

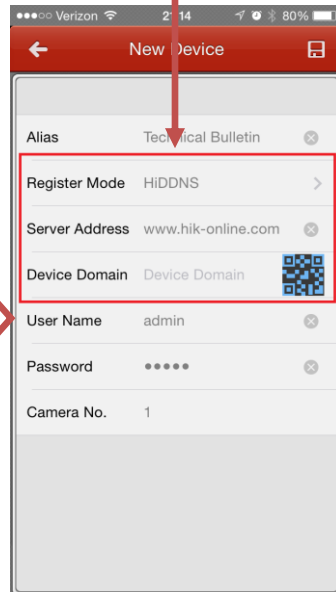


## CONFIGURING THE MOBILE APP

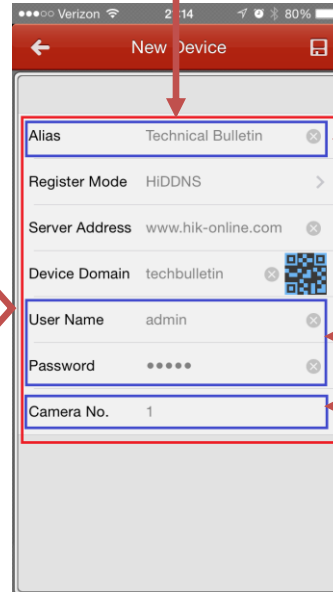
CHANGE THE MODE



ENTER "DEVICE DOMAIN"



COMPLETE THE PAGE

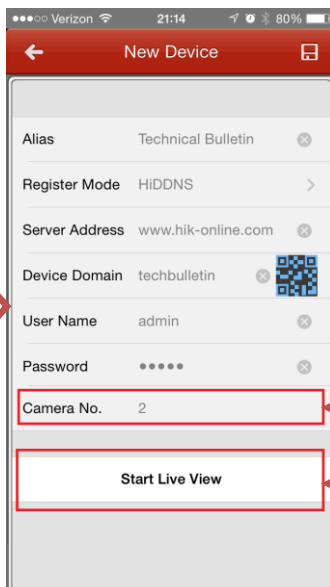
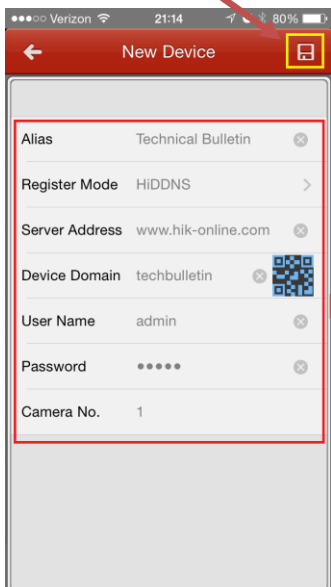


**Please Note:**  
Alias is just a friendly name for the address book (i.e. Home/Office)

**User Name and Password** are the NVR's username and password

**Please note:**  
The "CAMERA NUMBER" is set to 1.  
After saving the changes, the number will resemble the correct amount of cameras

"SAVE" BUTTON



**Please note:**  
The "CAMERA NUMBER" has changed to the correct number of cameras connected to the NVR

**Please note:**  
"START LIVE VIEW" button will begin live camera stream

## 9. PLAYING BACK RECORDED VIDEO

### PLAYING BACK RECORDED VIDEO

To initiate a **PLAYBACK**, go to “MENU”>”PLAYBACK”.

The screenshot shows the HIKVISION Playback interface. On the left, there are buttons for 'Record' and 'Tag'. The main area features a calendar for July 2014, with the 24th highlighted. Below the calendar is a 'Quick Playback' section with a 'Jump to Time' field set to '17:23:02' and a 'Goto' button. A 'Playback Status' section shows 'Stop' and 'Clip Time: --'. At the bottom, there is a timeline with a play button. On the right, a video preview window shows a road scene, with a 'Full Screen' button in the top right corner. At the bottom right, there are 'Pictures Export' and 'Clips Export' buttons.

**Select a camera to playback**

**Select the desired date to playback**

**Select the desired time of playback**

**Click on the timeline to select the desired time of playback**

**“Full Screen” button. Going to a full screen will allow multiple channel playback**

**Press PLAY to begin playback**

#### Steps to initiate **PLAYBACK**

1. Select the desired camera
2. Select the desired date. The days that contain recording will be highlighted on the calendar
3. Select the desired time using the Timeline or “Jump to Time” feature.
4. Press “PLAY”



## 10. MAKING A BACKUP

### PLAYING BACK RECORDED VIDEO

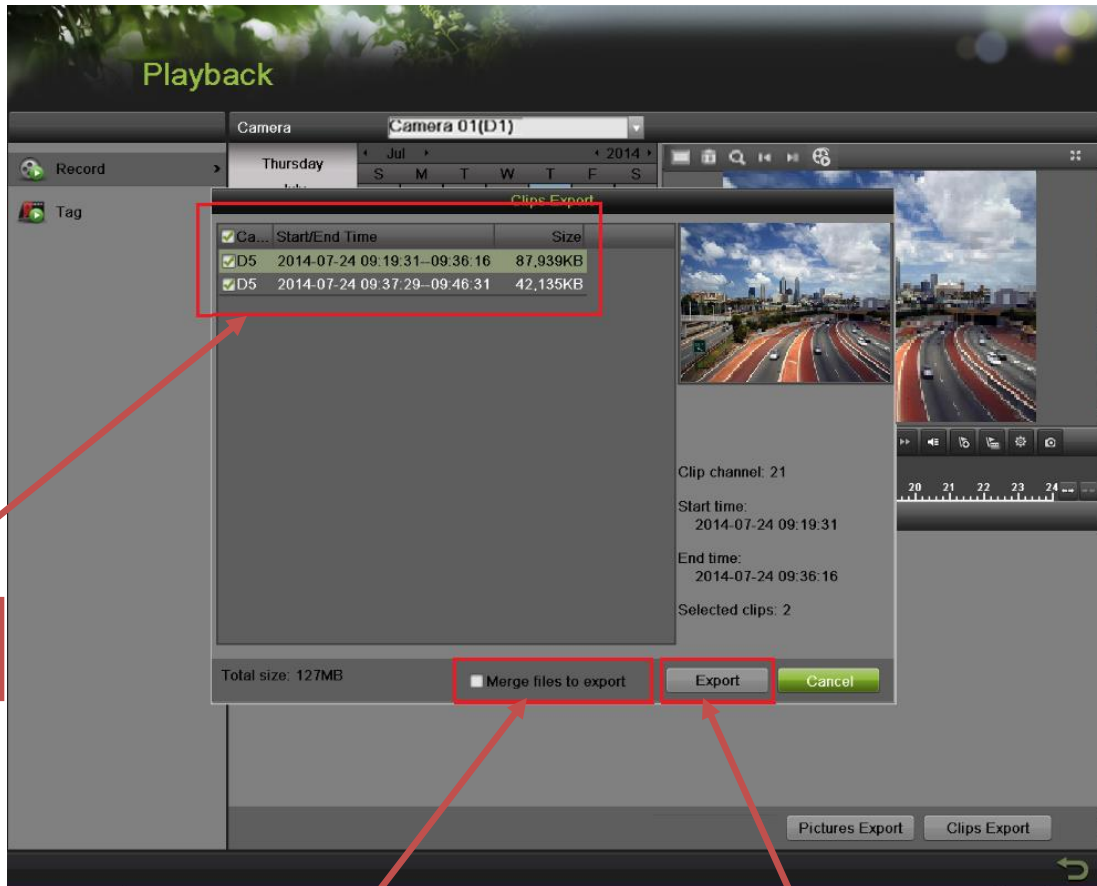


Steps to make a **BACKUP** of recorded video

1. Insert a USB FLASH Drive or a USB HDD into an available USB Port
2. Go to **"MENU">"PLAYBACK"**
3. Select the DATE and beginning time of the incident
4. Click **"START CLIPPING"**
5. Select the ending time of the incident
6. Click **"END CLIPPING"** (Same button as "Start Clipping")
7. Click **"SAVE CLIP"**
8. Repeat steps 1-7 as many times as required
9. Click **"CLIPS EXPORT"**

## PLAYING BACK RECORDED VIDEO

After pressing “CLIPS EXPORT” a new window opens up containing all saved clips.



Select the desired clips

If selected, multiple clips created from the same camera will be stitched together

EXPORT THE CLIPS TO USB DEVICE

10. Select the desired clips
11. Press “EXPORT”
12. After the backup is complete, simply remove the USB FLASH Drive or the USB HDD.