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
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 Also note, that the CD may contain outdated manuals and software.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:

FRONT AND REAR VIEW

REAR 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

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

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2. Audio In
3. HDMI Monitor Output
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FRONT VIEW

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

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”

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

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

**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
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).

Preferred DNS Server 8.8.8.8
Alternate DNS Server

After assigning the IP information, click on the “MORE SETTINGS” tab
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 for port forwarding step by step instructions. Please be aware, that Hikvision USA is not associated with www.portforward.com, and not responsible for any activity between the user and 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. 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
  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)
After the changes have been made, press "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 uppercase characters, begin with a number, spaces, special characters…).
6. ADDING IP CAMERAS

Go to:

“MENU” > “CAMERAS SETUP”

<table>
<thead>
<tr>
<th>Cameras</th>
<th>Status</th>
<th>IP Camera A</th>
<th>IP Camera B</th>
<th>Camera Name</th>
<th>Protocol</th>
<th>Device Model</th>
<th>Manufacture</th>
<th>Serial No</th>
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<tbody>
<tr>
<td>OSD</td>
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<td>Video Loss</td>
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<td>VCA</td>
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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

Hikvision NVRs are defaulted to CONTINUOUS RECORDING.

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

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

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

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

Select the camera. Enable/Disable the schedule
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.
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.
To set the recording **RESOLUTION/FRAMERATE/BITRATE** settings, please go to:

"RECORD QUALITY" in the “RECORDING CONFIGURATION” submenu

- **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)
**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 choises: **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

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

- **Please note:** If the upload speed is not sufficient, consider lowering the frame rate/bitrate/resolution for more fluent mobile app viewing.
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.
Please Note:
If free HikVision DDNS is configured for the device, change the “REGISTER MODE” to HiDDNS.
Please note:
The "CAMERA NUMBER" is set to 1. After saving the changes, the number will resemble the correct amount of cameras.

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

Please note:
User Name and Password are the NVR’s username and password.

Please note:
Alias is just a friendly name for the address book (i.e. Home/Office).
9. PLAYING BACK RECORDED VIDEO

To initiate a PLAYBACK, go to “MENU” > ”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”
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”
After pressing “CLIPS EXPORT” a new window opens up containing all saved clips.

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