Quick Start Guide

Turbo HD series DVR
DS-72xxHGHI-SH
DS-73xxHQHI-SH

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 DVR for configuration purposes.
1. OVERVIEW

WHAT’S IN THE BOX

THE BOX CONTAINS:

DVR
USB Mouse
IR Remote (Batteries not included)
Power Cord
Hard Drive Mounting screws and brackets
Hard Drive (Preinstalled)
Hard Drive Cables
Rack Mount Ears (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 DVR to the latest version before proceeding. Also note, that the CD may contain outdated manuals and software.

For latest firmware, manual and software downloads please visit:

FRONT AND REAR VIEW

REAR VIEW
1. Video In
2. Audio In
3. Audio Out
4. VGA output
5. HDMI output
6. USB Interface
7. Network Interface (RJ45)
8. Rs-485 Interface
9. Power Supply Port
10. Power Switch
11. Grounding Screw
12. Alarm In/Out

FRONT VIEW
1. Power, Status and Tx/Rx indicators
2. IR Receiver
3. USB Interface

DS-72xxHGHI-SH
FRONT AND REAR VIEW

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REAR VIEW
1. Video In
2. Video Out
3. Audio In
4. USB Interface
5. HDMI output
6. VGA output
7. Audio Out
8. Network Interface
9. RS-485 Interface
10. Power Supply
11. Power Switch
12. GND
13. Line In
14. eSATA
15. RS-232 Interface

FRONT VIEW
1. Power, Ready, Status, Alarm, HDD And Tx/Rx Indicators
2. DVD-R/W
3. Composite Keys
4. Direction/Enter Keys
5. Power
6. Jog Shuttle Control
7. USB Interface
8. IR Receiver
2. **MAIN MENU LAYOUT**

**DEFAULT USERNAME:** admin  **DEFAULT PASSWORD:** 12345

(Please note, that the username and password are case sensitive)

![Main Menu Diagram]

- View recorded video and make Backup
- Setup recording type, motion detection, resolution and frame rate and more
- Setup Date/Time, Network, screen settings, user accounts and more
- Model number, firmware version, camera status, HDD status and more
- Log Out and Lock the DVR
- Displays the current logged in user
- Search for snapshots, make large backups
- Add cameras, Change brightness, contrast… Camera name, PTZ, Privacy
- Upgrade firmware, factory default, system logs, import/export settings
- Exit MENU to Live View
3. FORMATTING THE HARD DRIVE

If the Hard Drive (HDD) is not formatted (initialized), the DVR 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).
4. SETING UP DATE/TIME

DATE AND TIME SETUP

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

“MENU” > “SYSTEM CONFIGURATION” > “GENERAL”
Networking a DVR requires 3 steps:
1. Assign an **IP address, Default Gateway, Subnet Mask, and a DNS server (Please note: DNS, **not** DDNS)** to the DVR
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”

- **IP CONFIGURATION**
  - Please note that the DVR have a default IP Address set to **192.0.0.64**

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**Enable DHCP**

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

Units with older firmware have the RTSP PORT set to 554. A lot of cell phone carriers block incoming data through port 554, which is why Hikvision recommends changing that port to 10554.
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 DVR, connect a computer to the same router that the DVR 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)
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 upper case characters, spaces, special characters…).
6. ADDING IP CAMERAS

Go to:
“MENU”>”CAMERAS SETUP”

Press the “GARBAGE CAN” icon to delete an added camera
Press “+” to add the camera to the DVR
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
Hikvision DVRs 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. 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 motion only recording

Select the camera. Enable/Disable the schedule
To set the DVR 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 “COPY” option is available only for analog cameras, 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 DVR 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 DVR’s recommended bitrate according to the parameters set above.

Record Audio allows turning the audio recording on or off (for IPC, this option is only available if the camera has a microphone connected to it).

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

Input Resolution shows the resolution of video stream from camera.

Recording Time(days) shows how much time left for recording, based on current HDD volume and recording parameters.

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>
</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.

**Select Sub Stream**

**Record Quality**

**Select Camera**

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

- **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

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.

Launch the APP

Skip the tutorial if desired
CONFIGURING THE MOBILE APP

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.

User Name and Password are the DVR’s/NVR’s username and password.

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

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

Please note: The “CAMERA NUMBER” has changed to the correct number of cameras connected to the DVR/NVR.
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.