# DVR Quick Start Guide (QSG): DS-73xxHUHI-F4/N

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### Regulatory Information

### **FCC Information**

FCC Compliance: This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

### **EU Conformity Statement**

This product and, if applicable, the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE Directive); Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recvclethis.info



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Industry Canada ICES-003 Compliance: This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Safety Instruction: These instructions are intended to ensure that the user can use the product correctly to avoid danger or property loss. The precaution measure is divided into "Warnings" and "Cautions.

Warnings: Serious injury or death may occur if any of the warnings are neglected.

Cautions: Injury or equipment damage may occur if any of the cautions are neglected.



Warnings Follow these safeguards to prevent serious injury or death.



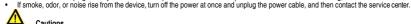
Cautions Follow these precautions to prevent potential injury or material damage.



### Warnings

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

  In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Refer to technical specifications for detailed information. Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 24 VAC or 12 VDC according to the IEC60950-1 standard. Refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Make sure that the plug is firmly connected to the power socket. When the product is mounted on wall or ceiling, the device shall be firmly fixed.



### Cautions

- Make sure the power supply voltage is correct before using the device.
- Do not drop the device or subject it to physical shock.
- If cleaning is necessary, use clean cloth with a bit of ethanol and wipe it gently. If the device will not be used for an extended period, protect it from dirt.
- Do not place the device in extremely hot, cold, dusty, or damp locations, and do not expose it to high electromagnetic radiation. Do not operate product in outside of its stated environmental specs. To avoid heat accumulation, good ventilation is required for the operating environment.
- Keep the device away from liquids while in use.
- While in delivery, the device shall be packed in its original packing, or packing of the same durability.
- Regular part replacement: some equipment parts (e.g., electrolytic capacitor) shall be replaced regularly according to their average endurance time. The average time varies because of differences between operating environments and usage history, so regular checking is recommended for all users. Contact your dealer for more details.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.
- If the product does not work properly, contact your dealer or the nearest service center. Never attempt to disassemble the device yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

### WHAT'S IN THE BOX

Make sure the following items are in your box:







**HDD Cables** (Installed)



Far Mounts



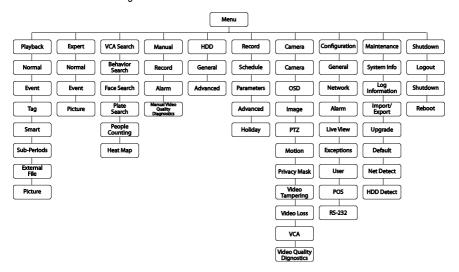
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DVD-ROM

### **MENU TREE**

Use this menu tree to navigate the embedded menus.



## FRONT PANEL

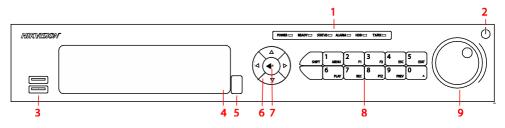


Figure 1, DS-73xxHUHI-F4/N Front Panel

### FRONT PANEL (continued)

No.		Description							
	Indicator LEDs	Power	Green when power switch on real panel is on, red when power switch is off						
		Ready	Green when DVR is functioning properly						
1		Status	N/A						
		Alarm	Red when a sensor alarm is detected						
		HDD	Flickers red when data is being read from or written to HDD						
		TX/RX	Flickers green when network connection is functioning properly						
2	On/Off Switch	Starts up or shuts down the DVR processes							
3	USB	USB ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD)							
4	DVD-RW Bay	Slot to install DVD-RW drive							
5	IR Sensor	Receives remote control signal							
6	Direction Buttons		etween different fields and items in menus						
7	Enter Key		Accepts input						
	Buttons	Numbers	Enters numeric values into fields						
8		Functions							
		٨	Switches between composite key numerals (no light) and functions (red light)						
9	Jog Dial	Use to scrub video forward/backward quickly							

## REAR PANEL

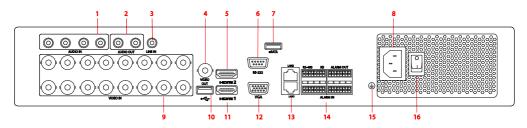


Figure 2, DS-7316HUHI-F4/N Rear Panel

No.	Item	Description								
1	AUDIO IN	RCA connector								
2	AUDIO OUT	RCA connector								
3	LINE IN	RCA connect	RCA connector							
4	VIDEO OUT	BNC interface	BNC interface							
5	HDMI 2	HDMI video c	output connector							
6	RS-232		DB-9 serial interface							
7	eSATA	Connector for	Connector for external eSATA storage							
8	Power In	100 to 240 VAC power								
9	VIDEO IN	BNC interface for HD-TVI, and analog video input								
10	USB	USB port for additional devices								
11	HDMI 1	HDMİ video output connector								
12	VGA	DB-15 connector for VGA output, displays local video output and menu								
13	LAN 1 AND 2	Connectors for network								
14		ALARM IN Alarm inputs								
			Connector for RS-485 devices: T+ and T- pins connect to R+ and R- pins of PTZ receiver respectively							
	Connectors	RS-485	D+, D- pins connects to Ta, Tb pins of controller (for cascading devices, the first DVR's D+, D- pins connects to the D+, D- pins of the next DVR)							
		KB	Keyboard connector							
		ALARM	Alarm outputs							
		OUT								
15	GROUND	Grounding screw								
16	POWER SWITCH	On/off switch								

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### **CONNECT DEVICES**

- Connect power supply to the DVR.
- 2. Connect DVR to LAN using Cat 5e cable.
- 3. Connect video monitor(s) to DVR using HDMI and/or VGA cables, as appropriate.
- 4. Connect mouse to USB port (wireless mouse can be used in lieu of included mouse).
- Connect to audio I/O using RCA connectors.

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### START THE DVR

- 1. Plug power supply plug into 100 to 240 VAC outlet (surge suppressor is recommended).
- 2. Turn power switch on. Power indicator LED will turn green to indicate unit is starting.
- After startup, power indicator LED will remain green.

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### LOCAL ACTIVATION

System access requires a secure, user-assigned password.



### ▼ Set Admin Password

First-time access requires user to create an admin password.

 Input same password in Create New Password and Confirm New Password text fields.



### Strong Password REQUIRED

Password must contain 8 to 16 characters, combining numbers, lower and upper case letters, and special characters. At least two types of the above-mentioned characters are required. Also, reset password regularly.

2. Click **OK** to save password and activate device.

**Password Strength Levels** 

STRENGTH LEVEL	DESCRIPTION						
Level 0 (Risky) DVRs <i>will not</i> accept password	Password is fewer than eight characters, contains only one type of character, is the same as the user name, or is the mirror writing of the user name						
Level 1 (Weak) DVRs <i>will</i> accept password	Password contains number + lower case letter or number + upper case letter and is at least eight characters						
Level 2 (Medium/Fair) DVRs <i>will</i> accept password	Password contains two types of characters ( <i>neither</i> number + lower case letter <i>nor</i> number + upper case letter) and is at least eight characters						
Level 3 (Strong) DVRs will accept password	Password contains more than three types of characters and is at least eight characters						

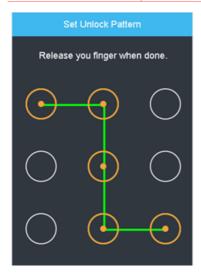
**NOTE 1**: The strength level indicator colors can vary by activation process, model number, and device type. Typical: Risky (no color), Weak (pink), Fair (yellow), Strong (green).

NOTE 2: PASSWORD CHARACTÉRS ALLOWED (ASCII Only):

- Lowercase ASCII Letters
   a b c d e f g h l j k l m n o p q r s t u v w x y z
- Uppercase ASCII Letters

ABCDEFGHIJKLMNOPQRSTUVWXYZ

- Numerals 0 1 2 3 4 5 6 7 8 9Special Characters
  - . <del>-</del> \_ : / @ , ? ! ' ( ) \$ & " [ ] { } # % ^ \* + = \ | < >









### ▼ Set Unlock Pattern

Admin user will be prompted to configure an unlock pattern for login in place of a password.

- Hold down left mouse button and draw a pattern by connecting at least four dots on the screen, with each dot connected only once).
- 2. Release mouse button when done.
- 3. Draw the same pattern again to confirm it.

**NOTE:** If you forget t pattern, click "Forgot Password" to display normal admin login box.

### ▼ Log In (Unlock Pattern)

1. Draw the unlock pattern to unlock system.

### ▼ Log In (Dialog Box)

- User Name field will be prefilled with "admin."
- Input Password (account will lock to prevent access for 30 minutes if seven incorrect password attempts are made).
- Člick OK.
- 4. After the device is activated, the Attention box pops up.

### ▼ Export the GUID Password Recovery File

- Generate and save GUID (Globally Unique Identifier) recovery key to be used to reset password. It is unique to each machine.
  - Insert a USB flash disk into the DVR's USB port.
  - Click Yes to export GUID recovery key. Reset Password interface pops up.
  - Navigate to the USB flash disk.
  - Click the **New Folder** button to create a folder on the USB flash disk. Name the folder to identify the machine (e.g., "Jones Home, PO3243...").
  - Double click on the new folder to switch to that location for saving.
  - Click the Export button to export the GUID file to the USB flash disk. System will show the saved GUID file.

**NOTE:** First nine digits after "GUID\_" is serial number of unit from which GUID was exported. Digits after serial number are date of export.

If multiple GUIDs exist for same unit, always use file with latest date.

A GUID can be used only once. Generate and export new GUID once issued GUID has been used.



### INITIALIZE THE HARD DRIVE (IF NEEDED)

The system is set up to record upon power up and will beep and display "Do you want to initialize drive" prompt if the hard drive(s) are not initialized.

- 1. Go to MENU > SYSTEM CONFIGURATION > HDD.
- 2. Use the checkboxes to select the HDDs that need to be initialized.
- Press INIT. (Factory installed HDDs come initialized. Initializing again will erase any record video. This does not affect settings).



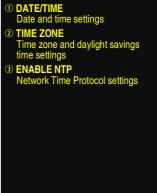


# 5

### SET DATE AND TIME

1. Go to MENU > SYSTEM CONFIGURATION > GENERAL.





### SET UP NETWORK ACCESS

A network connection is required to access the cameras remotely.

- 1. Go to MENU > SYSTEM CONFIGURATION > NETWORK > GENERAL.
- 2. Use pull-down Working Mode menu to select "Multi-address."
- Use the pull-down Select NIC menu to select the network interface card you want to configure as the camera LAN ("LAN 1" or "LAN 2").
- 4. Use the pull-down **Default Route** menu to select the NIC that is to connect to the cameras' LAN.
- Uncheck the Enable DHCP checkbox.
- Set the IPv4 network IP address, subnet mask, and default gateway to match the IP subnet of the cameras.
- Use the pull-down Select NIC menu to select the network interface card you want to configure for the external computer LAN.
- 8. Set the IPv4 network IP address, subnet mask, and default gateway to match the IP subnet of the external computer LAN.
- 9. Change the "Preferred DNS Server" value to 8.8.8.8 (leave Alternate DNS Server blank).



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### SET REMOTE VIEWING PORTS

After assigning the IP information, click the More Settings tab.



The **More Settings** tab contains the ports that need to be forwarded for remote access.



- **SERVER PORT** is responsible for the mobile app and client software log-in
- HTTP PORT is responsible for Web browser log-in
- RTSP PORT is responsible for video/audio streaming

The HTTP port, server port, and RTSP port can be changed to avoid conflicts with the ISP or if multiple devices are installed at a single location.

### SET UP PORT FORWARDING

Port forwarding redirects communication from one address/port number to another to make services on a protected network available to hosts on an external network.

Log into the router, and proceed with port forwarding. Port forwarding steps differ by router. For port forwarding assistance, contact your Internet Service Provider (ISP) or router manufacturer. Also refer to www.portforward.com for step-by-step instructions.

NOTE: Hikvision USA is not associated with www.portforward.com and is not

responsible for any activity between the user and www.portforward.com. Avoid

accidentally downloading any software from www.portforward.com.

Proceed to the **Routers** section on the website for step-by-step instructions.

### SET UP HIK-CONNECT P2P CLOUD SERVICE

NOTE:

Ports 9010 and 9020 must not be blocked for the Hik-Connect Cloud service to work.

Use the Hik-Connect mobile app (from iOS App Store or Google Play) to create a Hik-Connect P2P Cloud account to connect Hikvision devices over the Internet. See the User Manual.

Enable Hik-Connect P2P on the NVR.

Check the **Enable** checkbox.

- Go to Main Menu > System Configuration > Network > Platform Access.
- 2).
- Server Address must be "dev.hik-connect.com." If not, check the Custom checkbox, and type "dev.hik-connect.com."
- Click the **Apply** button. Status will change to "Online" (if all settings are correct).
- Note the Serial Number and Verification Code shown here (for use when registering the NVR in your Hik-Connect account) or use the QR code displayed.



- To see a device's video stream on the Hik-Connect or iVMS-4500 mobile app, add the device.
  - Login to Hik-Connect mobile app with your user name, e-mail, or mobile number and password.
  - 2) 3) On the Home screen, click the "+" button (upper right corner).
  - Enter the device's information.
    - If you have the device's **QR Code**: Use the QR Code Scanner to scan the device's **QR Code**.
    - If you do not have the device's **QR Code**: Enter the device information manually:
      - a. Click the Edit (pencil) icon on top right corner.
      - b. Enter device serial number (device must be online), then click the **OK** button.
      - c. When the device appears on the "Results" screen, click the Add button.
      - d. Enter device's 6-character Verification Code (all upper case), then click the **OK** button.
      - Click the Finish button.

# ADDING CAMERAS

### **Adding Analog Cameras**

Analog cameras are enabled by default; no further action is required.

Disabling Analog Cameras To Increase Number of IP Cameras

Disabling an analog camera allows substitution of a network (IP) camera in its place, up to 10 IP cameras maximum for DS-7308HUHI-F4/N and up to 18 IP cameras maximum for DS-7316HUHI-F4/N.

- 1. Go to MENU > CAMERAS > ANALOG (TAB).
- Analog Camera List will display all enabled cameras.
- 3. Disable analog cameras in the Analog Cameras Enable Status section:
  - Uncheck the **camera** checkbox of any camera(s) you wish to disable.
  - Check the **Analog** checkbox to disable/enable all analog cameras.
- 4. Press APPLY to save settings.

### **Adding IP Cameras**

- 1. Right click a window in **Live View** mode to display the menu.
- Online cameras in the same network segment will be detected and displayed in the camera list.
- 3. Select camera and click the button to add it (using DVR's admin password), or click the One-Touch Adding button to add first two cameras in list of three or more (w/same admin password).

NOTE: Make sure the camera to add has been activated by setting the admin password, and the camera's admin password is the same as the DVR's.



Figure 3, IP Camera Management Interface





### VIEW LIVE VIDEO

Live View displays real-time video.



Icons in the upper right of screen show each camera's record and alarm status.

- Alarm (video loss, tampering, motion detection, sensor alarm, or VCA
- Record (manual record, continuous) record, motion detection, alarm, or VCA triggered record)
  • Event/Exception (event and
- exception information appears at lower-left corner of screen)

# 12 SET UP RECORDING

The system defaults to record video continuously at 8 fps, or at 15 fps when motion is detected.

Recording Schedule

Default is to record continuously every day. Do the following to change the recording schedule:

- Go to MENU > RECORDING CONFIGURATION > SCHEDULE.
- Choose **CONTINUOUS** or **EVENT/(MOTION DETECTION)** under the **Type** pull-down menu.
- 3. Use cursor to select (days will turn blue [continuous] or yellow [event/motion detect]) or deselect (days will turn gray [off]) the calendar days you wish to record.
- Apply time settings as desired.
- Press APPLY.



TYPE Motion or Continuous (default)

### ② COLOR

Shows Recording Schedule days:

- Blue=Continuous
- Yellow=Event (motion/alarm)
- Grey=None

TIMES Customize schedule times (ignore for "motion only" recording)

### ADD

Press to add time settings to schedule

### **5 ENABLE SCHEDULE**

If not checked, camera will not record

### Motion Detection Areas

To define the image areas that Motion Detection will monitor for each camera, do the following: 1.

- Go to MENU > RECORDING CONFIGURATION > MOTION DETECT.
- 2. Use Camera pull-down menu to select camera to configure.

- 3. Check the **Enable Motion Detection** checkbox to enable motion detection.
- Use the Sensitivity boxes to select how responsive the detection should be (the more green boxes lit, the greater the sensitivity).
- 5. Drag a grid(s) over the area(s) on the image that will be sensitive to motion.
- Click the Settings Set button to configure Arming Schedule (when detection is enabled) and Linkage Actions (what action(s) to take when motion is detected).



### ▼ Record Quality

- Main Stream
  - Go to RECORDING CONFIGURATION > RECORD QUALITY > MAIN STREAM and set the following items:
    - Stream Type enables/disables audio streaming from the cameras (if the camera does not have audio capabilities, Stream Type will have only Video option).
    - Resolution sets recording resolution.
    - Bitrate Type:
      - > Variable saves HDD space
      - > Constant provides more stable stream



- Video Quality adjusts picture clarity (high = four green squares is default). Consider high if HDD space allows. Medium balances good picture and saving HDD space.
- Frame Rate sets frame rate (8 fps on continuous and 15 fps on motion by default). Higher frame rates require more storage, but allow better slow motion playback.
- Max Bitrate Mode choose pre-set bitrate or customized value (General is default).
- Max Bitrate (kbps) is chosen bitrate for streaming video. Adjust Max Bitrate to meet or exceed rate recommended by system for the chosen parameters.
- Max Bitrate Recommended is impacted by resolution, quality, and frame rate.
- **Record Audio** turns on audio record. Requires external mic or camera w/built-in mic.
- **Video Stream** determines which stream is recorded. Leave at default (Main Stream).

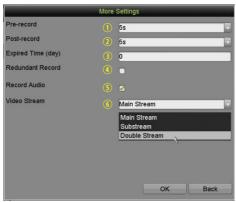
### Substream

Go to RECORDING CONFIGURATION > RECORD QUALITY > SUBSTREAM to set up the Sub Stream to stream to mobile devices and display multiple cameras locally.
 NOTE: If the upload speed is not sufficient, lower the frame rate, bitrate, and or resolution for more fluent mobile viewing.



SUBSTREAM TAB (Select)
 CAMERA (Select Camera)
 STREAM TYPE (Select Choice)
 RESOLUTION (Up to 4CIF)
 VIDEO QUALITY
 # of green squares sets quality (in example, sensitivity is 3)

- More Setting...
  - 1. Click the **More Setting...** button to display additional settings.



### **① PRE-RECORD**

Seconds to record before recording starts

## ② POST RECORD

onds to record after recording

## **EXPIRED TIME (DAY)**Days to keep the recording

REDUNDANT RECORD Record to redundant drive

# S RECORD AUDIO Check to record audio

### **© VIDEO STREAM**

Choose which video stream to record

# 13 PLAY BACK RECORDED VIDEO

- Go to MENU > PLAYBACK. 1.
- 2. Select the desired camera(s) from the menu on the right of the screen.
- Select the desired date (days that contain recordings will be blue if recording was continuous only or 3. vellow if all or part of the day was event recording).
- Press PLAY. 4.
- Click within the timeline to jump to desired time.



### **① PLAYBACK TYPE MENU**

Select type of record to play

Pull Screen

Goes to full screen for multiple channel playback

### PLAY/STOP

ck (toggles between egin playback lay and Stop)

CAMERA LIST Select camera(s) to play back **⑤ CALENDAR** 

lect date to play back

### **6 TIMELINE**

Click on timeline to jump to desired playback time

### **Playback Controls**

Mute	Volume	Start/Stop Clipping	Lock File	Add Default Tag	Add Custom Tag	File Management	Digital Zoom In	Play Reverse	Play/Stop	Pause	30 s Back	30 s Forward	Speed Down 1x	Speed Up 2 x	Previous Day	Next Day	Single Frame	Jump To
4		H	ŘΩ	15	13	*	Ð	<b>4</b>		Ш	<b>4</b> 305	305	44	**	<	>	1.	丅

### Play Back Record Files

- Go to MENU > LIVE VIEW.

### Playback Controls

Right click a Live Image to display a Quick menu and click on 🔊 icon for instant playback.

# BACK UP VIDEO RECORDINGS AND CLIPS

Back up recorded video clips to ensure important video is not lost or destroyed.

### Choose Recorded Video Clips to Back Up

- 1. Connect a USB flash drive, HDD, or DVD writer to an available USB port (this step is mandatory).
- Go to MENU > PLAYBACK.
- Select cameras for playback.
- Select the date and beginning time of the incident.

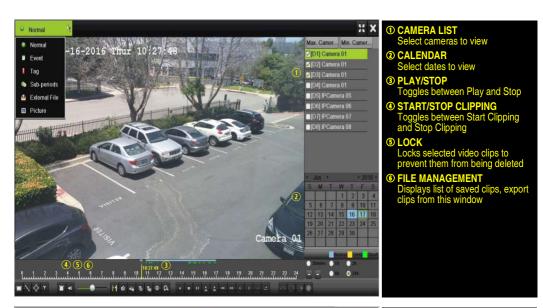
- Click START CLIPPING button.
   Select the CLIPPING button (same button as START CLIPPING). Clip will be marked.
- Repeat steps 1-6 as many times as required.
- 4. Click **FILE MANAGEMENT** button to display a new window containing all marked clips.
- Select the desired clips.
- Click EXPORT to save files to the inserted USB device.

### **Lock Video Clips**

- Click on the images of the clips you want to lock.
   Press the LOCK button to prevent the file from being erased.

### Back Up Video Clips

- Connect a USB flash drive, HDD, or DVD writer to an available USB port.
- 2. Click on the **File Management** button to display the File Management window.
- 3. In the File Management window, choose video clip(s) to back up and click **Export** button.
- 4. Choose backup device (USB flash drive, USB HDD, or DVD writer).
- 5. Click **Export** (to check backup, choose recorded file in Export interface and click button).







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