HIKVISION* DVR Quick Start Guide (QSG) DS-73xxHUI-K4, DS-73xxHQI-K4, DS-90xxHUI-K8

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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 2011/85/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.recyclethis.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 uses the product correctly to avoid danger or property loss. The precautions are divided into "Warnings"

WARNINGS: Follow these safeguards to prevent serious injury or death; serious injury or death may occur if any of the warnings are neglected.

- 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 relatiled information.
- 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. If smoke, odor, or noise rise from the device, turn off the power at once and unplug the power cable, and then contact the service center.

CAUTIONS: Follow these precautions to prevent potential injury or material damage; injury or equipment damage may occur if any of the cautions are neglected.

REAR PANELS (continued)

RS-485 and Alarm Interface

No. Item

- 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

interface for TurboHD and analog video input

should be connected with the D+, D- pin of the next DVR.

100 to 240 VAC power supply
Switch for turning on/off the device

3. Connect video monitor(s) to DVR using HDMI and/or VGA cables, as appropriate.

1. Plug power plug into 110 to 240 VAC outlet (surge suppressor is recommended).

2. Turn power switch on. Power indicator LED will turn on to indicate unit is starting.

4. Connect mouse to USB port (wireless mouse can be used in lieu of included mouse).

Connector for alarm output

RCA connector

RCA connector
Universal Serial Bus (USB) port for additional devices
Simultaneous HDM11/VGA output. Display local video output and menu.
HDM12 video output connector (DS-73xxHUI-K4 and DS-90xxHUI-K8 only)

respectively.

D+. D- pin connects to Ta, Tb pin of controller. For cascading devices, the first DVR's D+, D- pin

- Do not place the device in extremely hot, cold, dusty, or damp locations, and on not expose it to high electromagnetic rapidation. Do not experted product in solution of any or device shall be packed in its original packing, or packing of the same durability.

 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.)

Description of DS-73xxHUI-K4, DS-73xxHQI-K4, DS-90xxHUI-K8 Rear Panels

2 VIDEO OUT BNC connector for rutrornu and analog video in BNC connector for video output 3 AUDIO IN/LOOP OUT (DS-90xxHUI-K8) RCA connector 4 USB Port Universal Serial Bus (USB) port for additional de 5 HDMI1/VGA Simultaneous HDMI1/VGA output. Display local 6 HDMI2 HDMI2 HDMI2 video output connector (DS-73xxHUI-K4 and DS Network Interface Connector for network (DS-73xxHUI-K4 and DS

WHAT'S IN THE BOX

Make sure the following items are in your box:



MENU TREE

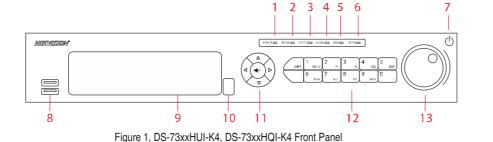
Use this menu tree to navigate the embedded menus.

HDD Screws SATA Cable HDD Power Cable

	0							
			Me	nu				
Playback	File Management	VCA Search	Manual	Rec. Config.	Cameras Setup	Sys. Configuration	Maintenance	System Info.
Normal Main Stream	Record	Behavior Search	Record	Schedule	Cameras	General	System Logs	Device Info
Event Sub Stream	Event	Face Search	Alarm	Record Quality	OSD	Network	Import/Export	Camera
Tag		Counting	Man. Video Quality	Motion Detect	Image	HDD	Upgrade	Record
Smart		Heat Map		Trigger	PTZ	Live View	Default	Alarm
Sub-Periods				Holiday	Privacy Mask	Exceptions	Network Detect	Network
External File					Video Tamper Det.	User	HDD Detect	HDD
					Video Loss			
					VCA			
					Video Qual, Diag,			

Rack Ears

FRONT PANELS



3 LOCAL ACTIVATION (continued)

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

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).

OK Cancel

No

PASSWORD CHARACTERS ALLOWED (ASCII Only):

- Lowercase ASCII Letters
- abcdefghljklmnopqrstuvwxyz
- Special Characters .-_:/@,?!'()\$&"[]{}#%^*+=\|<>

QSG

HDD Rails

▼ Set Unlock Pattern

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

- 1. Hold down left mouse button and draw a pattern by connecting at least four dots on the screen, each dot connected only once).
- 2. Release mouse button when done. 3. Draw the same pattern again to confirm it.
- NOTE: If you forget the pattern, click "Forgot Password" to display the normal admin login box.

▼ Log In (Unlock Pattern)

1. Draw the unlock pattern to unlock system.

▼ Log In (Dialog Box) 1. User Name field will be prefilled with

- 2. Input Password (account will lock to prevent access for 30 minutes if seven incorrect password attempts are made).
- 3. Click OK.
- 4. After the device is activated, the Attention box pops up.

▼ Export the GUID Password Recovery File 1. Generate and save GUID (Globally Unique Identifier) recovery key to be used to reset

- password. It is unique to each machine. 1) Insert a USB flash disk into DVR's USB
- 2) Click Yes to export GUID recovery key. Reset Password interface pops up.

3) Navigate to the USB flash disk.

Selects all items on list when used in list field Cycles through tab pages/switches channels in synchronous playback mode Switches between main and spot output/zooms out image in PTZ control mode Switches between single screen and multi-screen mode/adjusts focus in conjunction with A/FOCUS+ button in PTZ control mode Enters PTZ Control mode/adjusts PTZ camera iris in PTZ control mode PREV/Focus-

FRONT PANELS (continued)

3 STATUS

DIRECTION

Composite Keys

13 JOG SHUTTLE Control

14 (Keyed Loc

15 Control Keys

1/MENU

2/ABC/F1

5/JKL/EDIT

REC/Shot PLAY/Auto

A/Focus+

Edit/Iris+

ENTER

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Figure 2, DS-90xxHUI-K8 Front Panel

ESC REC PLAY A EDIT MENU F1 F2 MAIN/SP01 PREV PTZ

Function Description
Green when DVR is powered up
Green, indicating that the DVR is functioning properly
Green when device is controlled by IR remote/ted when controlled by keyboard/purple when IR remote and keyboard is used at the same time
Red when a sensor alarm is detected
Flickers red when data is being read from or written to HDD
Flickers green when network connection is functioning properly
Power on/off switch

Neceiver for IH remote control

Navigates between fields/items in menus/uses Up/Down buttons to speed up/slow down playing video files in Playback mode/Left/Right button will select next and previous record file/cycles through channels in Live View mode/controls movement of PTZ camera in PTZ control mode

Confirms selection in any of the menu modes/checks checkbox/plays or pauses playing video files in Playback mode/advances video a single frame in single-frame Playback mode/stops and starts auto switch in Auto-switch mode

Switches between numeric/letter input (no light) and composite key functions (light cod).

auto switch in Auto-switch mode

Switches between numeric/letter input (no light) and composite key functions (light red)

Enters numeral "1"/accesses main menu interface

Enters "2ABC"/F1 in list field selects all items/turns on/off PTZ light in PTZ Control mode, use to zoom out image/switches between main and spot video output in live view or playback mode

Enters "5DEF"/F2 changes tab pages/zooms in on image in PTZ control mode

Enters "4GHI"/exits and goes back to previous menu

Enters "5JKL"/deletes characters before cursor/checks checkbox and selects ON/OFF switch/starts and stons record clipning in playback

Returns to previous menu/press to arm and disarm device in live view mode

Enters Manual Record settings menu/presses followed by numeral to call PTZ preset in PTZ control settings/turns audio on and off in playback mode

Enters playback mode/automatically scans in PTZ control menu

Zooms in the PTZ camera in the PTZ control setting

Adjusts focus in PTZ Control menu/changes input method (upper/lower case alpha, symbols, numerals)

numerals)

Edits text fields and deletes character in front of cursor/checks the checkbox in checkbox fields/adjusts camera iris in PTZ control mode/generates video clips for backup in playback mode/enters and exits USB device folder and eSATA HDD

Returns to Main menu after successful login/press and hold five seconds to turn off key beep/starts wiper (if applicable) in PTZ control mode/shows and hides control interface in playback mode

Selects all items on list when used in list field

Cycles though tab pace/cyst/tobes changels in superbropous playback mode.

Universal Serial Bus ports for additional devices such as mouse and hard disk drive DVD-RW slot

Receiver for IR remote control

5/JKL/EDIT
Enters "5JKL"/ideletes characters before cursor/checks checkbox and selects ON/OFF switch/starts and stops record clipping in playback
7/PQRS/REC
Enters "6MNO/'accesses playback interface in Playback mode
8/TUV/PTZ
Enters "7PQRS''/accesses manual record interface/manually enables/disables record
8/TUV/PTZ
Enters "8TUV'/accesses PTZ control interface
9/WXYZ/PREV
O/A
Enters "9WXYZ'/multi-channel display in live view
Control
Moves active selection up and down in menu/cycles through channels in live view mode/jumps 30s forward or backward in playback mode/controls PTZ camera movement in PTZ control mode/moves active selection up and down in a menu

3 LOCAL ACTIVATION (continued)



- 4) Click **New Folder** to create a folder on the USB flash disk. Name the folder to identify the machine (e.g., "Jones Home, PO3243..."). 5) Double click on the new folder to switch to
- that location for saving. 6) Click **Export** to export the GUID file to the USB flash disk. System will show the saved
- 7) Click Back to return to the login screen.

NOTE: The first nine digits after "GUID_" is the serial number of the device from which the GUID was exported. Digits after the serial number are the date of export.

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

A GUID can be used only once. Generate and export a new GUID once an 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. Click **Yes** to perform the following steps automatically:

- Go to MENU > SYSTEM CONFIGURATION > HDD.
- 2. Use the checkboxes to select the HDDs that need to be initialized.
- Press INIT.
 - NOTE: Factory installed HDDs come initialized. Initializing again will erase any record video. This



SET DATE AND TIME

1. Go to MENU > SYSTEM CONFIGURATION > GENERAL.

5 SET DATE AND TIME (continued)

REAR PANELS

| 1000 OUT | 1000 OUT

Figure 3, DS-7316HUI-K4 Rear Panel

(Not Shown: DS-7308HUI-K4 with 8 BNC connections, DS-7332HUI-K4 with 32 BNC connections)

Figure 2, DS-7316HQI-K4 Rear Panel

(Not Shown: DS-7308HQI-K4 with 8 BNC connections, DS-7332HQI-K4 with 32 BNC connections)

ATAZe

Figure 3, DS-9016HUI-K8 Rear Panel

(Not Shown: DS-9008HUI-K8 with 8 BNC connections, DS-9032HUI-K8 with 32 BNC connections)

000000000

7 13 6 15 14



SET UP NETWORK ACCESS

A network connection is required to access the cameras remotely.

- 1. Go to MENU > SYSTEM CONFIGURATION > NETWORK.
- 2. Enable DHCP (check the checkbox).
- 3. Press **Refresh** to update the IPv4 address, subnet mask, and IPv4 default gateway.
- 4. Disable DHCP (uncheck the checkbox).
- 5. Change "Preferred DNS Server" value to 8.8.8.8 (leave Alternate DNS Server blank).



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.

System access requires a secure, user-assigned password.

LOCAL ACTIVATION

CONNECT DEVICES

START THE DVR

Connect power cord to the DVR.

Connect DVR to LAN using Cat 5e cable.

5. Connect to audio I/O using RCA connectors.

3. After startup, power indicator LED will remain on.

▼ Set Admin Password

First-time access requires user to create an admin

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

7 SET REMOTE VIEWING PORTS (continued)



- 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
- NOTE: 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.

- 1. 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.
- 2. Proceed to the **Routers** section on the Website for step-by-step instructions.

SET UP HIK-CONNECT P2P CLOUD SERVICE

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.

- 1. Enable Hik-Connect P2P on the NVR.
- 1) Go to Main Menu > System Configuration > Network > Platform Access.
- Check the **Enable** checkbox. Server Address must be "dev.us.hik-connect.com." If not, check the **Custom** checkbox, and
- type "dev.us.hik-connect.com."
- Click **Apply**. Status will change to "Online" (if all settings are correct).

 Note the Serial Number and Verification Code shown here (for use when registering the DVR in your Hik-Connect account) or use the QR code displayed.



2. To see a device's video stream on the Hik-Connect or iVMS-4500 mobile app, add the device.

9 SET UP HIK-CONNECT P2P CLOUD SERVICE (continued)

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

ADD IP CAMERAS

- 1. Right click a window in Live View mode to display the menu.
- 2. Online cameras in the same network segment will be detected and displayed in the camera list.
- Select camera and click to add it (using DVR's admin password), or click One-touch Adding 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 5, IP Camera Management Interface

10 ADD IP CAMERAS (continued)

IP Camera Management Icons ograde the connected camer Camera disconnected; click icon to get Delete the IP camera camera's exception information Play connected camera's live vide amera connected



ADD ANALOG CAMERAS

Connect analog camera(s) to the "Video In" BNC connectors. Analog cameras are enabled by default; no further action is required.

VIEW LIVE VIDEO

Live View displays real-time video.



Icons in the upper right of screen show each

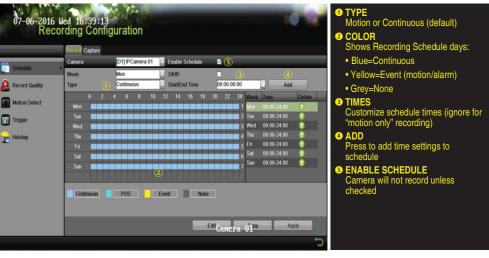
- Alarm (video loss, tampering, motion detection, sensor alarm, or VCA alarm)
- Record (manual record, continuous record, motion detection, alarm, or VCA triggered record)
- Event/Exception (event and exception information ppears at lower-left corner of screen)

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:
- 1. Go to MENU > RECORDING CONFIGURATION > SCHEDULE. 2. 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.
- 4. Apply time settings as desired.
- Press APPLY.



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.
- 4. 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.
- 6. Click Settings Set to configure Arming Schedule (when detection is enabled) and Linkage Actions (what action(s) to take when motion is detected).

13 SET UP RECORDING (continued)



▼ Record Quality

- Main Stream
 - 1. Go to RECORDING CONFIGURATION > RECORD QUALITY > MAIN STREAM.
 - 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 clarity (high = four green squares is default). Use highest if HDD allows. Medium setting is balance between good image and saving HDD space.
- Frame Rate sets recording frame rate (8 fps on continuous and 15 fps on motion by default). Higher rates require more storage, but allow better slow motion playback.
- Max Bitrate Mode chooses between pre-set and custom values (General is default).
- Max Bitrate (kbps) is chosen bitrate for streaming video. Adjust Max Bitrate to meet or exceed the rate recommended by the system for the chosen parameters.
- Max Bitrate Recommended is impacted by resolution, quality, and frame rate.
- Record Audio turns on audio recording. Requires external mic or camera built-in mic.
- Video Stream determines which stream is recorded. Leave at default (Main Stream).

13 <u>SET UP RECORDING (continued)</u>

- Substream
 - 1. 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 speed is insufficient, lower frame rate, bitrate, and/or resolution.



- 1. Click More Setting... to display additional settings.



OLUTION (Up to 4CIF) EO QUALITY

14 PLAY BACK RECORDED VIDEO

- 1. Go to MENU > PLAYBACK and select the desired camera(s) from the menu on the right.
- 2. Select date (days w/recordings will be blue if continuous only or yellow if day has event recording).
- 3. Press **PLAY** (click within the timeline to jump to desired time).



14 PLAY BACK RECORDED VIDEO (continued)



- ▼ Play Back Record Files
- Go to MENU > LIVE VIEW.
- 2. Left click a Live View window to bring up a shortcut toolbar and click 🗊 for instant playback.
- ▼ Playback Controls
- 1. Right click a Live Image to display a Quick menu and click 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

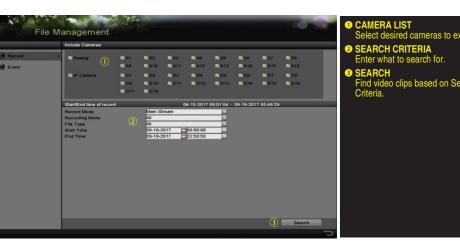
- 1. Connect a USB flash drive, HDD, or DVD writer to an available USB port (this step is mandatory).
- 2. Go to MENU > PLAYBACK. 3. Select cameras for playback.
- 4. Select the date and beginning time of the incident.
- 5. Click START CLIPPING
- 6. Select the ending time of the incident.

10. Select the desired clips.

- 7. Click END CLIPPING (same button as START CLIPPING). Clip will be marked.
- 8. Repeat steps 1-6 as many times as required.
- 9. Click **FILE MANAGEMENT** to display a new window containing all marked clips.
- 11. Click **EXPORT** to save files to the inserted USB device.
- ▼ Lock Video Clips 1. Click on the images of the clips you want to lock.
- 2. Press LOCK to prevent the file from being erased.
- ▼ Back Up Video Clips
- 1. Connect a USB flash drive, HDD, or DVD writer to an available USB port.
- 2. Click File Management to display the File Management window.
- 3. In the File Management window, choose video clip(s) to back up and click **Export**.
- 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 **(a)**).

15 BACK UP VIDEO RECORDINGS AND CLIPS (continued)





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