



Quick Installation Guide

Veo16p Embedded HVR

QR Code for Complete User Manual



Thank you for purchasing i3's Embedded HVR Veo16p. Your HVR supports a total of 16 video inputs: IP (select i3 Annexus models only) or analog/HD-TVI analog. The following items should be included with your HVR. If any of these items are missing, please contact your dealer or call our Customer Care Department toll free at 1.866.840.0004.

ACCESSORIES

1. Power Cable (x1).
2. 12V DC Power Adapter (x1)
3. Power cable retainer clip (x1)
4. Hard Drive screws (x12)
5. USB Mouse (x1)
6. Remote Control and 2x AAA batteries
7. 7P Terminal block (x2). (Pre-installed).
8. 10P Terminal block (x4). (Pre-installed)

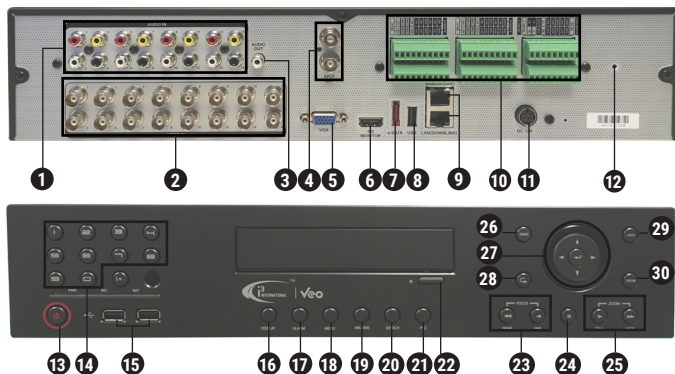
INSTALLATION REQUIREMENTS

When installing your Veo16p be sure to avoid:

- Temperatures outside of the acceptable 20°C-25°C (68°F -77°F)
- Humidity outside of acceptable range of 20%-80%, non-condensing
- Contaminants such as dust and smoke
- Areas with strong magnetic fields or mechanical vibrations

Important: an Uninterrupted Power Supply (UPS), minimum 1000 VA, with a constant power of 118 to 120 AC must be used with each i3 HVR Server to ensure longevity and to maintain warranty.

HVR COMPONENTS



1	RCA Audio input ports (x16)	15	USB ports x2. Connect USB mouse or USB storage.
2	BNC Camera ports. Connect up to 16 analog cameras (max. 16 IP+analog).	16	DISPLAY. Changes the camera split screen: 1, 2x2, 3x3 or 4x4
3	RCA Audio Output (speaker) port	17	ALARM. Displays alarm status in a popup window.
4	BNC Spot Out monitor ports (x2)	18	MENU. Displays system menu.
5	VGA monitor port	19	ARCHIVE. Displays backup mode.
6	HDMI monitor port	20	SEARCH. Displays Time Search mode.
7	eSATA port for external storage	21	PTZ. Displays PTZ Control mode.
8	USB port. Connect USB mouse or USB storage.	22	CD/DVD eject button
9	WAN / LAN Ethernet ports. Connect a switch or a hub to WAN port. Connect the switch with up to 16 i3 IP cameras (Ax45/Ax47/Ax67) to LAN port. (max. 16 IP+analog)	23	FOCUS. Focus selected PTZ camera Near/Far.
10	Alarm In (x18), Alarm Out (x8), Relay (x8), RS485 (x2) ports	24	Pause. Freezes the playback video.
11	12V DC Power Adapter port (provided)	25	ZOOM IN/OUT. Zoom selected PTZ camera In (tele) or Out (wide).
12	Secure the power cable with the power cable retainer clip, then fasten retainer clip to the opening to help prevent unintended disconnection of the power.	26	PANIC. Start the emergency recording.
13	Power button. Press to turn the HVR on.	27	Menu navigation buttons. Use the arrows to move through the system menus. Use the Enter button in the middle to select a menu item or confirm a setting.
14	Channel selection buttons. Enter the channel number to display individual channels in the full screen mode.	28	RETURN. Return to the previous menu.
		29	LOCK. Lock Veo16p to prevent all operations.
		30	ZOOM. Enter the digital zoom mode. Then use Zoom In/Out buttons (#25)

INSTALLATION

Before installation: Ground yourself. This will remove any static electrical charge your body might be carrying.

STEP 1

Plug the **mouse** into the USB port in the front **15** or the back **8** of the unit.

STEP 2

Plug the main **monitor** into the VGA **5** or the HDMI port **6** on the motherboard.

To connect a DVI monitor, use HDMI-DVI adapter (not included).

Note: For proper display, your main monitor must support 1920 x1080 at 60Hz.

STEP 3

Connect Veo16p HVR to the **network**. **9** Connect a switch or a hub to the HVR's WAN port. Connect the switch with i3 IP cameras (Ax47/67, Ax45/65), if using, to the LAN port. Note: Configure the IP cameras' IP address before connecting to Veo16p.

STEP 4

Connect up to 16 analog **cameras** **2** to the BNC ports on the back of the unit. If using PTZ cameras, connect RS485 communication cable to the corresponding ports on the back of the HVR. Connect up to 16 i3 **IP cameras** to the LAN NIC port. See CONNECTING REMOTELY via INTERNET EXPLORER for more information.

The total number of cameras supported: 16, select i3 IP cameras, analog/HD-TVI analog or a combination of the two.

STEP 5

Connect other peripheral devices, if using, such as RCA Audio Inputs/Output **1** **3**, Spot Out monitor(s) **4**, eSATA storage **7**, Alarm IN/OUT devices **10**, etc.

STEP 6

Connect the provided **12V DC Power Adapter** to the power port **11** on the back of the HVR. Secure the power cable with the power cable retainer clip (provided) then fasten retainer clip to the opening **12** to help prevent unintended disconnection of the power.



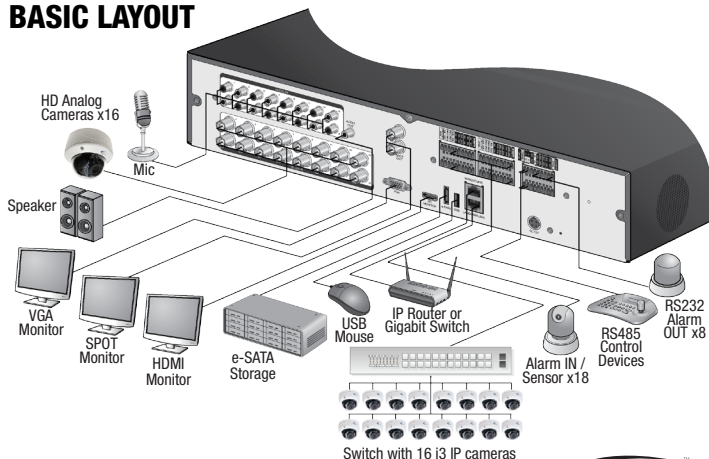
STEP 7

Connect the power cable to the **Uninterruptible Power Supply (UPS)**, 1000VA min., to maintain warranty. Connect the UPS to the Power Source / power outlet.

STEP 8

The system will power on automatically. If this does not happen, press the power button on the front of Veo16p HVR. **13** The system will then power up.

BASIC LAYOUT



QUICK START GUIDE

Veo16p

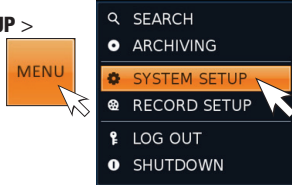
FIRST LOGIN

When the system starts, the login screen appears. Use the USB mouse and the on-screen virtual keyboard to enter **USER ID** and **PASSWORD** and click **OK**.
Default USER ID: **ADMIN**
Default PASSWORD: **1234**

SET NEW PASSWORD

For the safety of your HVR system and of your video data security, you **must** change the default administrative password on the **first system login**. Failure to do so may result in unwanted system access from unauthorized users, loss of video data/system settings, etc.

1. In the status bar, click **MENU** > **SYSTEM SETUP** > **USER** > **MANAGEMENT**
2. In the list of users, select **ADMIN** user account and click **EDIT**
3. Use the USB mouse and the on-screen virtual keyboard to set the new administrative **PASSWORD**.
4. Click **OK**
5. Click **APPLY**, then click **CLOSE** to return to the live screen.



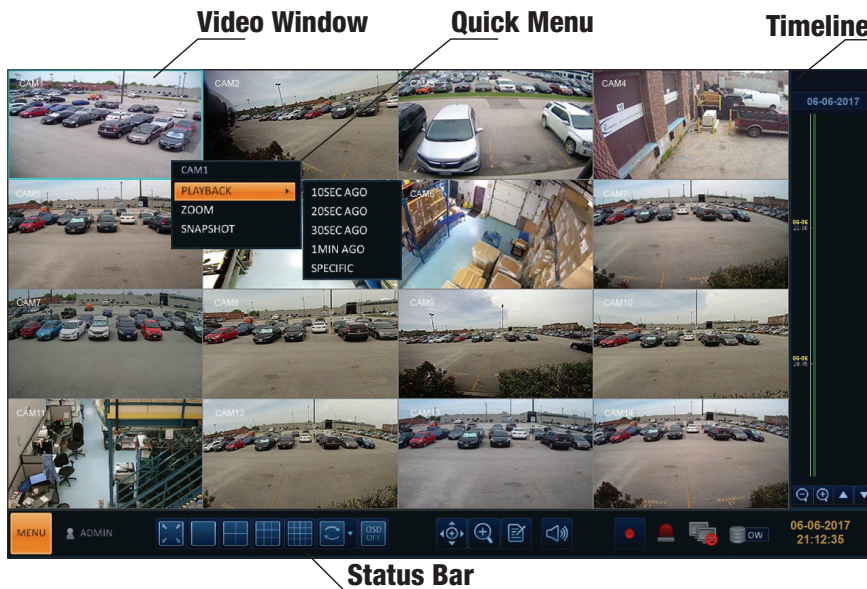
SET YOUR TIME ZONE

All i3 international HVRs are set to EST - Eastern Time Zone (GMT-5:00).

The time zone of your HVR **MUST** be set to your local time zone **on the first system start up** and every time the HVR is relocated to a different time zone.

1. In the status bar, click **MENU** > **SYSTEM SETUP** > **SYSTEM** > **DATE/TIME**
2. In TIMEZONE drop-down menu, select your local time zone.
3. Click **APPLY**.

LIVE SCREEN



Status Bar

Item	Description
	Access System Setup, Search and Backup menus.
	ID of the currently logged in user.
	Hide/Show status bar and timeline.
	Select the camera split screen: 1, 2x2, 3x3, or 4x4
	Enable/disable Auto Sequence mode.
	Display PTZ controls screen.
	Hide/Show OSD menus on the screen.
	Display recent recording event log.
	Listen to the audio stream of the connected audio-capable camera.

Timeline

Item	Description
	Current Timeline date. Click to select a different date.
	Zoom In/Out of the Timeline.
	Timeline navigation. Move to the previous/next point on the timeline. Alternatively, use the mouse wheel.
	Recorded data representation. Color indicates the type of recording: Green: Continuous Recording Red: Alarm Recording Blue: Motion Recording Yellow: Panic Recording Double-click the Timeline to go to the Playback Mode.

Quick Menu

Item	Description
Channel No	Displays the current channel's number.
Playback	Start playing the video of the selected channel from the specified time.
Zoom	Show Digital Zoom mode for the selected channel
Snapshot	Capture the current live video and save it in the *.jpeg format. Captured snapshot can be saved to HDD or exported to an external USB storage device.

Item	Description
	Start the emergency recording.
	Event alert. Icon blinks when an event with a linked action occurs. Click to view information about the event.
	Shows remote connections established via remote PC or a mobile device. Click to view remote user details and to check the network connection status.
	Shows the disk space information. OW stands for Over Write
	Shows the current system date and time.



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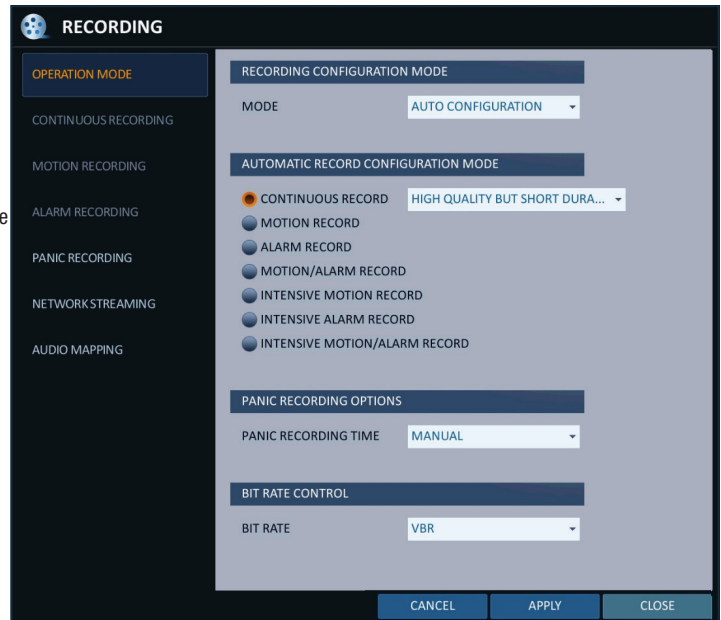
Canada 780 Birchmount Road, Unit 16,
Scarborough, ON, M1K 5H4

RECORDING SETTINGS

Auto Configuration allows selecting one type of video recording for all connected cameras.

To configure your HVR's recording settings,

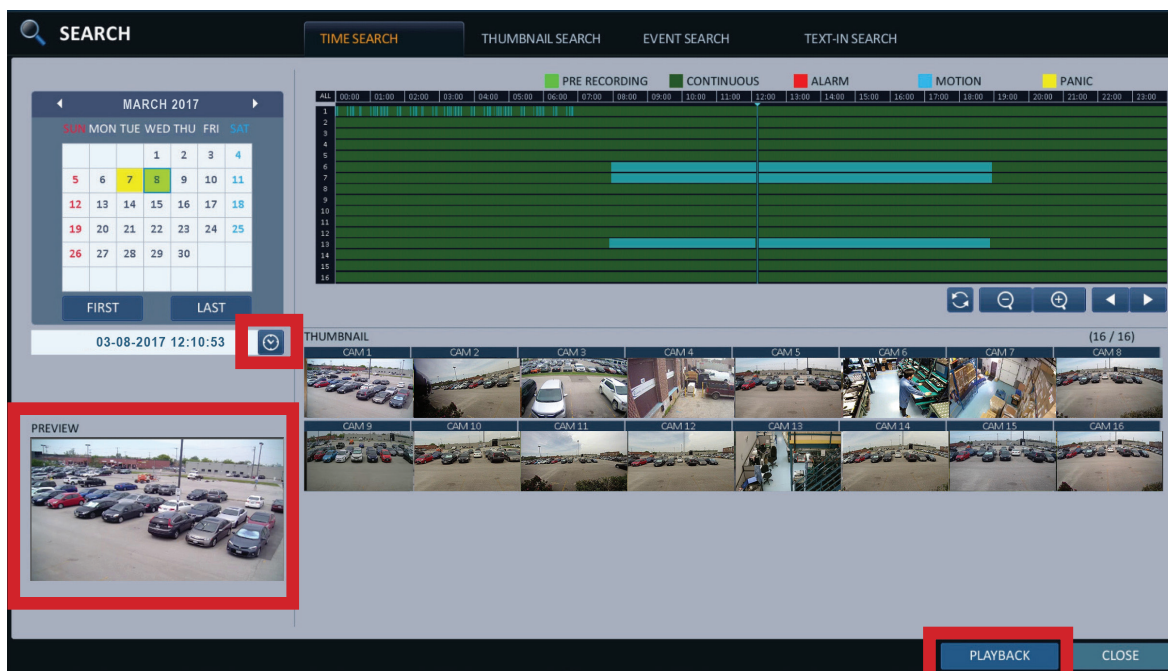
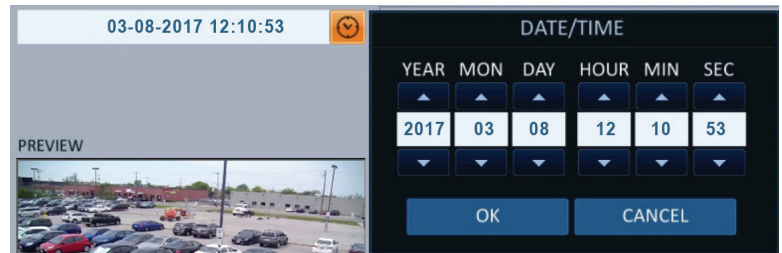
1. In the Status Bar, go **MENU > RECORD SETUP**
2. For a recording schedule that will apply to all cameras, set **RECORDING CONFIGURATION MODE** to **AUTO CONFIGURATION**.
3. Select recording type from the list:
 - **CONTINUOUS RECORD > HIGH QUALITY BUT SHORT DURATION.**
All cameras will record continuously 24/7. This recording mode requires the most storage space and will result in the shortest video retention of all available modes.
 - **MOTION RECORD**
Record only when motion is detected. Motion detection must be configured under **SYSTEM SETUP > CAMERA > MOTION SENSOR**
 - **ALARM RECORD**
Record only when alarm event occurs. Alarm events must be configured and linked to cameras in the **SYSTEM SETUP > EVENT**
 - **MOTION/ALARM RECORD.**
Combination of Motion and Alarm recordings. See above.
 - **INTENSIVE MOTION RECORD.**
Record continuously at lower resolution/fps and at higher quality when motion is detected.
 - **INTENSIVE ALARM RECORD.**
Record continuously at lower resolution/fps and at higher quality when alarm event is detected.
 - **INTENSIVE MOTION/ALARM RECORD.** Combination of the two recording types above.
4. Click **APPLY**.



TIME SEARCH

Search video one camera at-a-time. To search recorded video,

1. In the status bar, go **MENU > SEARCH > TIME SEARCH**
2. In the calendar window, select the search date and time.
Note: You can also click on the clock icon to change Year, Month, Day, Hour, Minute and Second of the playback start time.
3. Timeline window will show colored bars that represent recorded video for each camera.
4. Click directly on the Timeline to adjust playback start time.
5. Click one of the camera thumbnails and click **PLAYBACK**. The video will play in the **PREVIEW** window.



Timeline colored video data bars:
Lime Green: Pre-Recording.
(Must be first configured in OPERATION MODE > PRE-RECORDING TIME.)
Green: Continuous Recording
Red: Alarm Recording
Blue: Motion Recording
Yellow: Panic Recording

CONNECTING REMOTELY via INTERNET EXPLORER

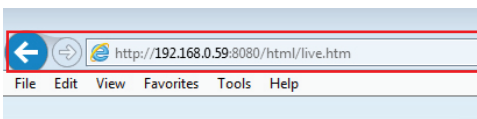
Start by configuring your HVR for remote access.

1. Connect a Gigabit switch to your Veo16p WAN port to connect the system to the Internet.
2. Connect a switch with up to 16 supported i3 IP cameras (Ax45/47/67) to your Veo16p LAN port
3. In the status bar, go **MENU > SYSTEM SETUP > NETWORK > IP SETUP**
4. Uncheck the DHCP checkbox and enter the HVR's IP Address information manually: **GATEWAY, SUBNET MASK, 1ST, 2ND DNS SERVER.**
5. If using i3 IP cameras, check the **USE** checkbox under LAN section to enable the LAN port and enter the **IP ADDRESS** and **SUBNET MASK** manually.
6. Configure port forwarding for RTSP and Web Service ports by clicking **AUTO PORT FORWARDING**.
Default value of the Web Service port is **8080**.
Default value of the RTSP Service port is **5554**.
7. Click **APPLY** and exit the menu.

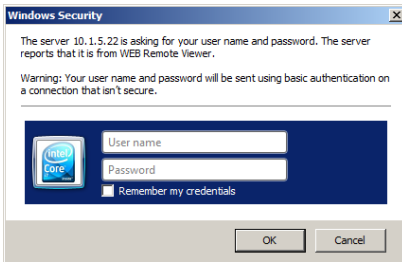
Internet Explorer

The following minimum system requirements must be met to connect to your Veo16p through the Internet Explorer:
Browser: **Internet Explorer 7.0** or later
CPU: Pentium 4, 2.0 Ghz or higher
RAM: 512 MB

1. In the IE address bar, enter Veo16p's IP Address, followed by Web Service port. (Default is 8080). E.g. <http://192.168.0.59:8080/html/live.htm>



2. In the login window enter the user name and password.

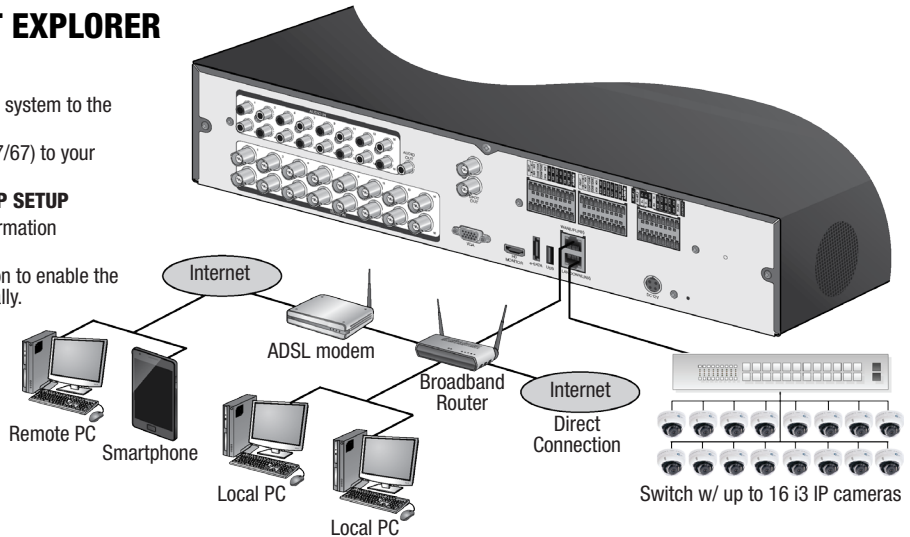
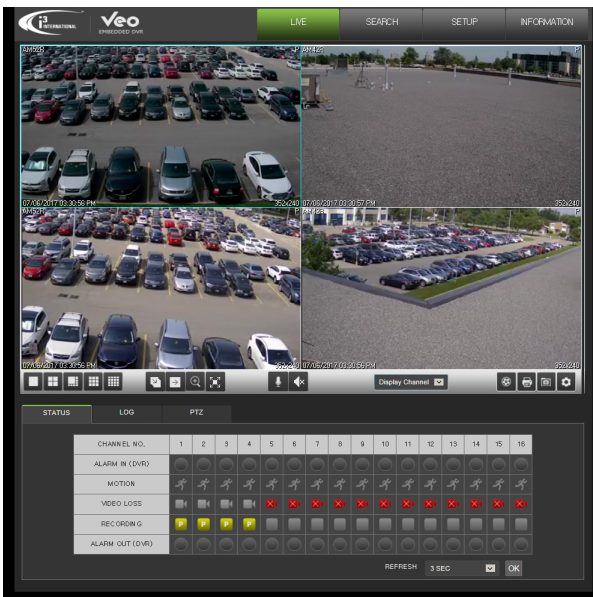


The default username and password:

Username: **ADMIN**

Password: **1234**

3. Click the warning bar to install ActiveX (required). When the security warning window appears, click **Install**.
4. Once ActiveX installation is completed, you will see the live screen.

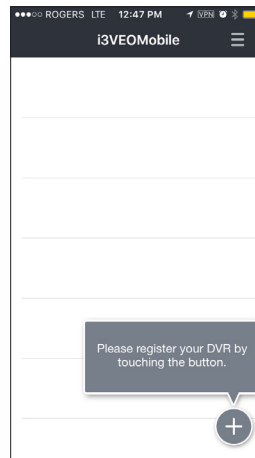


CONNECTING REMOTELY via i3 VEO MOBILE APP

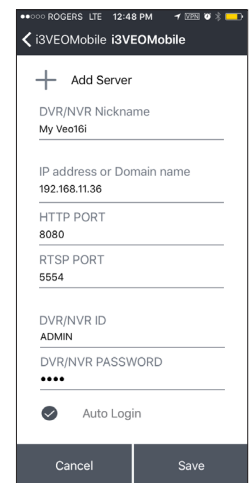
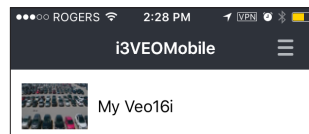
To connect to your Veo16p using your iPhone or an Android smartphone, download and install i3VEOMobile app.



1. Launch the app and tap the plus sign (+) to add a new Veo16p to the list of connections.
2. Fill out your Veo16p connection information:
 - HVR Nickname (e.g. Store #123)
 - IP Address or domain name
 - HTTP Port (Web Service port. Default is **8080**)
 - RTSP Port
 - Username (Default is **ADMIN**)
 - Password (Default is **1234**).
3. Click **Save** to add the HVR to the list.



4. Tap the HVR icon in the connections list to connect.



5. Tap the screen to see on-screen controls. You can change the split screen mode, turn Audio ON/OFF, control PTZ cameras, or access Search or Setup modes.

