



Quick Installation Guide

Embedded DVR

Veo16i

Thank you for purchasing i3's Embedded DVR Veo16i. The following items should be included with your DVR. 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. CD (Player, codec, documentation)
6. USB Mouse (x1)
7. Remote Control and 2x AAA batteries
8. 9P Terminal block (x2). (Pre-installed).
9. 10P Terminal block (x4). (Pre-installed)

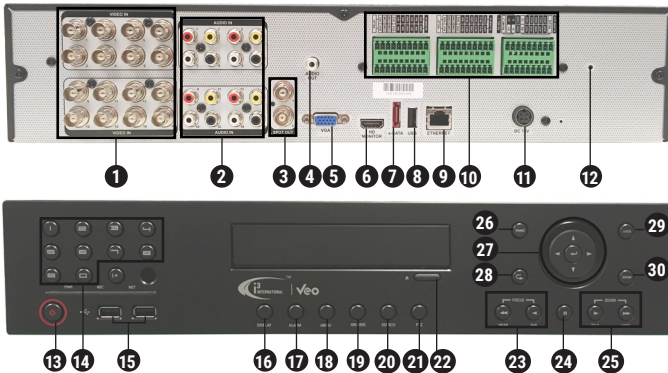
INSTALLATION REQUIREMENTS

When installing your Veo16i 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 DVR Server to ensure longevity and to maintain warranty.

DVR COMPONENTS



| | |
|----|--|
| 1 | BNC Camera ports (x16) |
| 2 | RCA Audio input ports (x16) |
| 3 | BNC Spot Out monitor ports (x2) |
| 4 | RCA Audio Output (speaker) port |
| 5 | VGA monitor port |
| 6 | HDMI monitor port |
| 7 | eSATA port for external storage |
| 8 | USB port. Connect USB mouse or USB storage. |
| 9 | Ethernet port. Connect the DVR to a switch or a hub. |
| 10 | Alarm In (x18), Alarm Out (x8), Relay (x8), RS485 (x2) ports |
| 11 | 12V DC Power Adapter port (provided) |
| 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. |
| 13 | Power button. Press to turn the DVR on. |
| 14 | Channel selection buttons. Enter the channel number to display individual channels in the full screen mode. |
| 15 | USB ports x2. Connect USB mouse or USB storage. |

| | |
|----|--|
| 16 | DISPLAY. Changes the camera split screen: 1, 2x2, 3x3 or 4x4 |
| 17 | ALARM. Displays alarm status in a popup window. |
| 18 | MENU. Displays system menu. |
| 19 | ARCHIVE. Displays backup mode. |
| 20 | SEARCH. Displays Time Search mode. |
| 21 | PTZ. Displays PTZ Control mode. |
| 22 | CD/DVD eject button |
| 23 | FOCUS. Focus selected PTZ camera Near/Far. |
| 24 | PAUSE. Freezes the playback video. |
| 25 | ZOOM IN/OUT. Zoom selected PTZ camera In (tele) or Out (wide). |
| 26 | PANIC. Start the emergency recording. |
| 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. |
| 28 | RETURN. Return to the previous menu. |
| 29 | LOCK. Lock Veo16i 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 Veo16i DVR to the **network**. Use the RJ45 port on the back of the unit. **9**

STEP 4

Connect all analog **cameras** to the BNC ports on the back of the unit. **1**
If using PTZ cameras, connect RS485 communication cable to the corresponding ports on the back of the DVR.

STEP 5

Connect other peripheral devices, if using, such as Spot Out monitor, RCA Audio Inputs/Output, eSATA storage, Alarm IN/OUT devices, etc. **2 3 4 7 10**

STEP 6

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

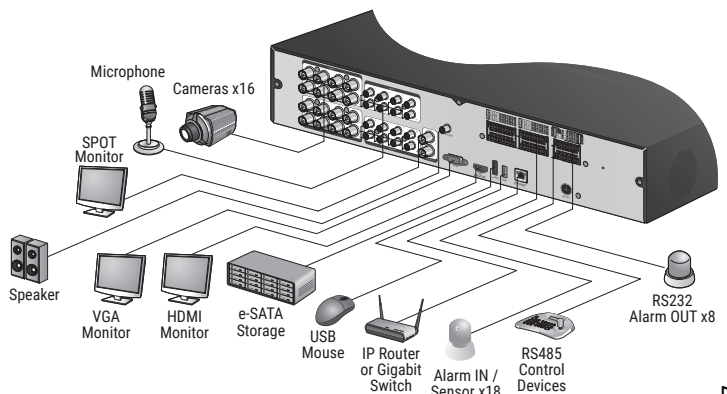
STEP 7

Connect the power cable to the 12V DC Power Adapter to the power port on the back of the DVR. 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 Veo16i DVR. **13** The system will then power up.

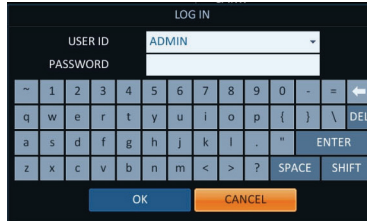


FIRST LOGIN

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**.

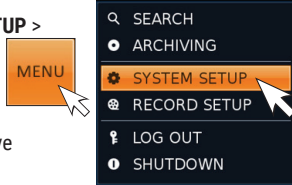
Default USER ID: **ADMIN**
Default PASSWORD: **1234**



SET NEW PASSWORD

For the safety of your DVR 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.

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

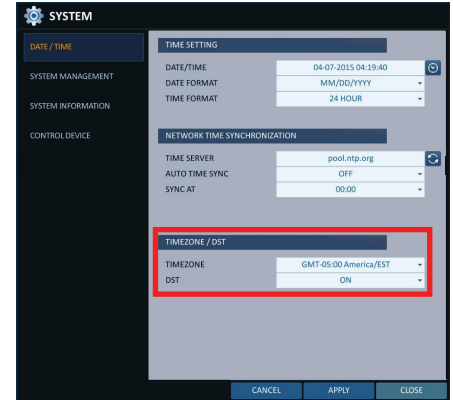


SET YOUR TIME ZONE

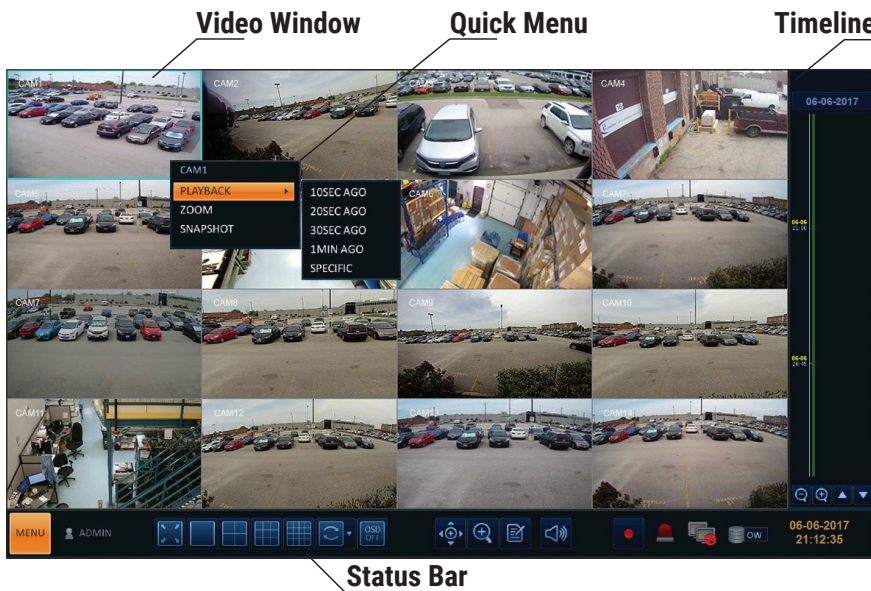
All i3 international DVRs are set to EST - Eastern Time Zone (GMT-5:00).

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

- In the status bar, click **MENU > SYSTEM SETUP > SYSTEM > DATE/TIME**
- In **TIMEZONE** drop-down menu, select your local time zone.
- 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. |
| | Hide/Show OSD menus on the screen. |
| | Display PTZ controls 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 |
|------|---|
| | Displays the current channel's number. |
| | Start playing the video of the selected channel from the specified time. |
| | Show Digital Zoom mode for the selected channel |
| | 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. |

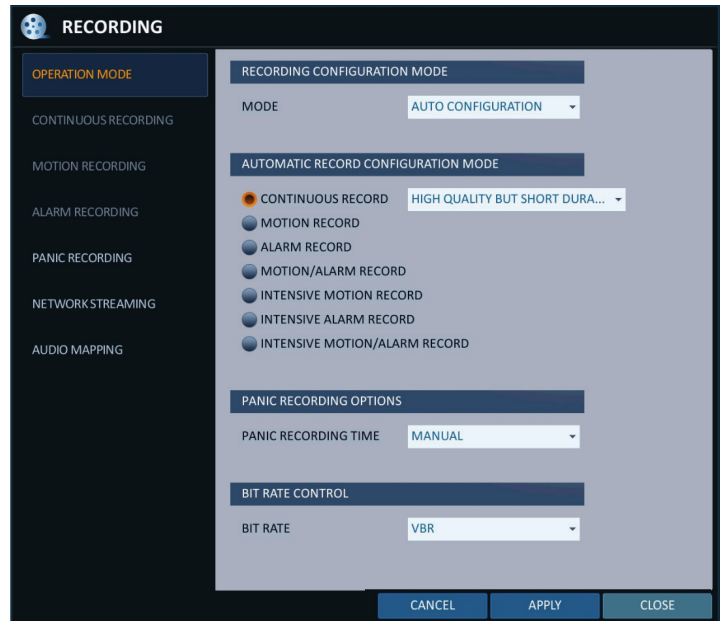
| Item | Description |
|------|--|
| | Start the emergency recording. |
| | Event alert. Icon blinks when an event with a linked action occurs. Click to view information about the event. |
| | Shows remote connections established via remote PC or a mobile device. Click to view remote user details and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

RECORDING SETTINGS

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

To configure your DVR's recording settings,

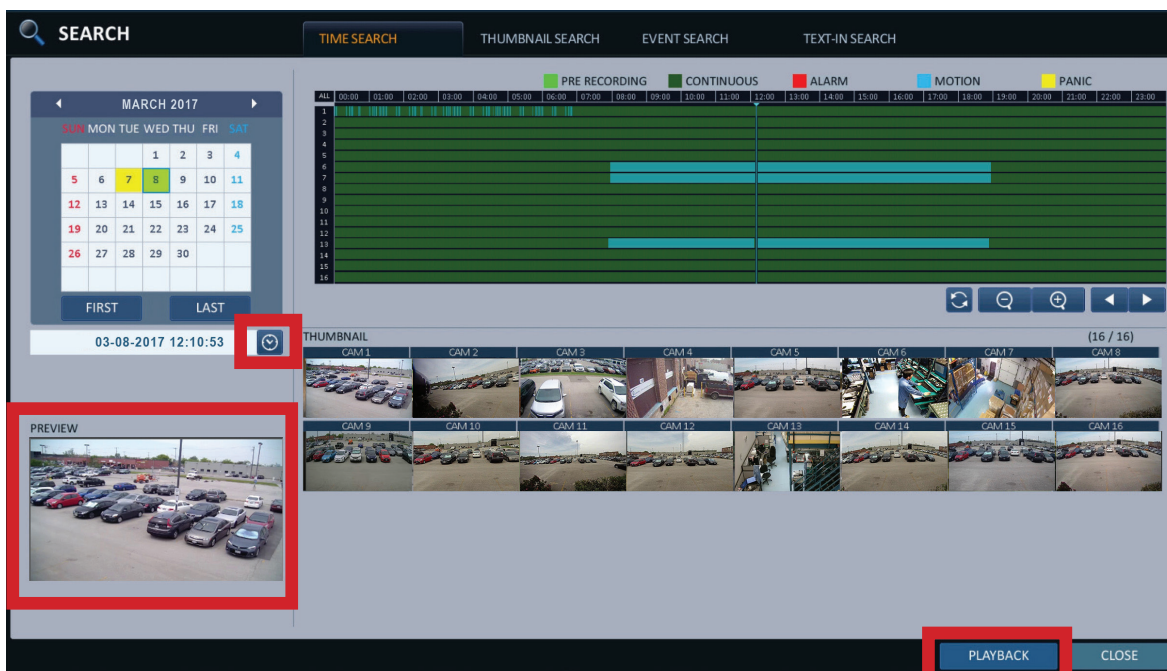
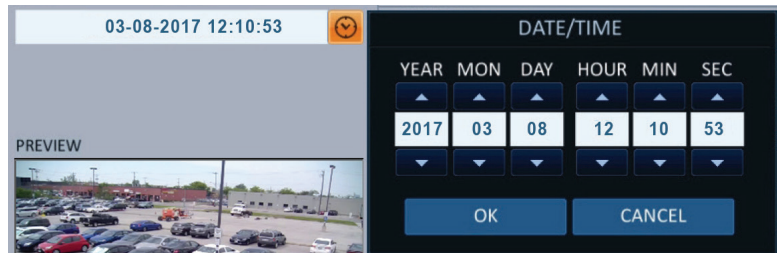
1. In the Status Bar, go **MENU > RECORD SETUP**
2. For a recording schedule that will apply to all cameras, set **RECORDING CONFIGURATION MODE to AUTO CONFIGURATION.**
3. Select recording type from the list:
 - **CONTINUOUS RECORD > HIGH QUALITY BUT SHORT DURATION.**
All cameras will record continuously 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

Video can be search on 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 DVR for remote access.

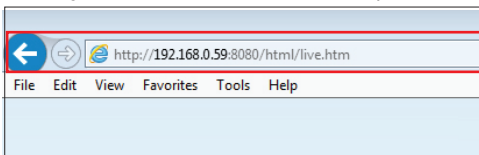
1. Follow the network connection diagram to connect your DVR to the Internet. Gigabit switch is highly recommended.
2. In the status bar, go **MENU > SYSTEM SETUP > NETWORK > IP SETUP**
3. Uncheck the DHCP checkbox and enter the DVR's IP Address information manually: **GATEWAY, SUBNET MASK, 1ST, 2ND DNS SERVER.**
4. Configure port forwarding for RTSP (required for i3 VEO Mobile app) and Web Service ports by clicking **AUTO PORT FORWARDING**. Default value of the Web Service port is **8080**.
5. Click **APPLY** and exit the menu.

Internet Explorer

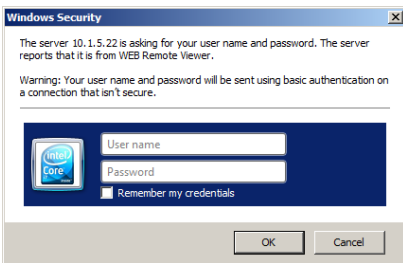
The following minimum system requirements must be met to connect to your Veo16i through the Internet Explorer:

OS: Windows XP, Vista, 7
 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 Veo16i's IP Address, followed by Web Service port. (Default is 8080). E.g. `http://192.168.0.59:8080`
2. In the login window enter the user name and password.



3. Click the warning bar to install ActiveX (required). When the security warning

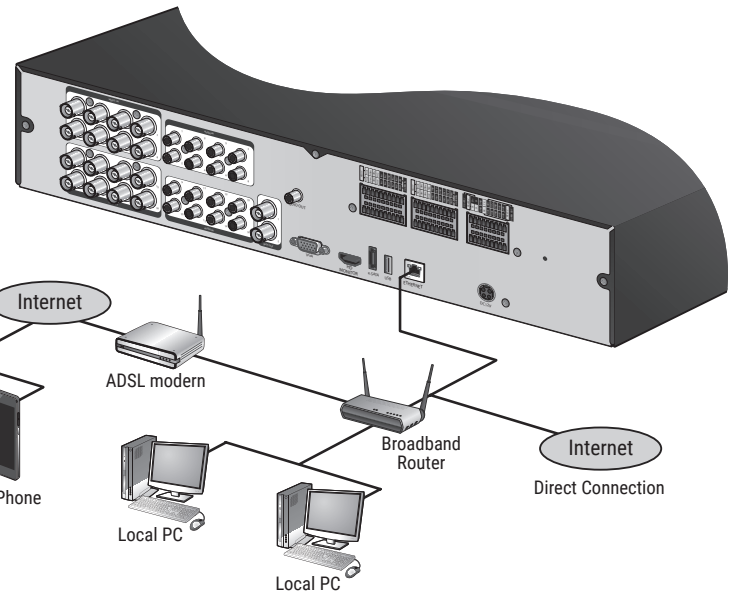
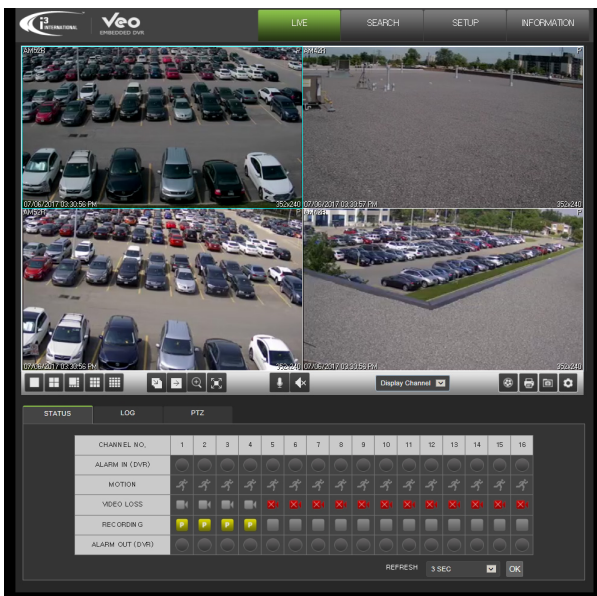


The default username and password:

Username: **ADMIN**
 Password: **1234**

window appears, click **Install**.

4. Once ActiveX installation is completed, you will see the live screen.

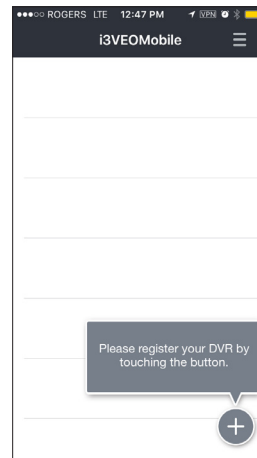


CONNECTING REMOTELY via i3 VEO MOBILE APP

To connect to your Veo16i using your iPhone or an Android smartphone, download and install i3VEOMobile app.

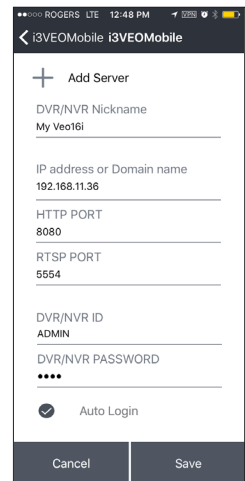


1. Launch the app and tap the plus sign (+) to add a new Veo16i to the list of connections.

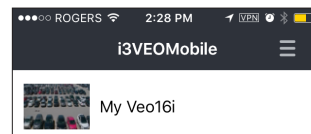


2. Fill out your Veo16i connection information:
 - DVR Nickname (e.g. Store #123)
 - IP Address or domain name
 - HTTP Port (Web Service port. Default is 8080)
 - RTSP Port
 - Username (Default is ADMIN)
 - Password (Default is 1234).

3. Click **Save** to add the DVR to the list.



4. Tap the DVR 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.

