



TVR Mobile HD V2.0 User Manual

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Manufacturer	UTC Fire & Security Americas Corporation, Inc. 2955 Red Hill Avenue, Costa Mesa, CA 92626-5923, USA Authorized EU manufacturing representative: UTC Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, The Netherlands
Contact information	For contact information, see www.utcfireandsecurity.com or www.utcfssecurityproducts.eu

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Introduction

Overview

The TVRMobile HD is an Android tablet and iPad application that can be used over a wireless network to remotely view live video, to play back recorded files, and to control alarm outputs from DVRs, NVRs, IP cameras, and PTZ cameras. It can also be used to control PTZ cameras.

Once installed on your mobile device, you can easily log on to the front-end device via Wi-Fi, 2G, 3G, or 4G. If there is no public IP available, you can use a dynamic name or by forwarding ports to the public IP router.

System requirements


Table 1: TVRMobile system requirements

Software	Android tablet: Android OS V2.3 or higher iPad: iOS 4.3 or higher
Maximum number of devices that can be added	100
Network stream	Main stream and substream
Frame rate	2 to 8 fps (depending on the performance of the mobile device)
Resolution	QCIF, up to 5 megapixels if supported by the device
Stream type	Video and audio
Bit rate	32 Kbp to 16 Mbps (depending on the network environment)

Software setup


The phone must be connected to the internet before installing the TVRMobile HD application.

Installing the TVRMobile HD app on a tablet

1. Go to the Android Market or the Apple Store web site and search for the TVRMobile HD application.
2. Download it.
3. On your tablet's home screen, tap  to open the app.


Log in

Create a user

1. Tap  on the home screen to open the TVRMobile HD application.
2. Enter your user name.
3. Enter your password and confirm it. Tap **Register**. The live view screen opens.

Note: See “Password protection” on page 14 for further information on managing passwords.

Log in

1. Tap  on the home screen to open the TVRMobile HD application.
2. Enter password (if required). The live view screen opens.

Main menu icons

The main menu icons are always easily available. Simply tap the desired icon on the side of the screen to open it.



Table 2: Main menu icon description



Live view: Access live view, control PTZ, and add favorite cameras and views. Enable/disable bi-directional audio.



Remote Playback: Playback recorded video.



Configuration: Display the device list, add/delete/modify devices, view device information, add/delete/view favorite cameras, configure passwords, update software, and access the Help menu.

Device management

The device list is empty by default. You must first add the required devices to the TVRMobile HD device list before you can access them. Once the device has been successfully added, the app obtains the device's camera information.



Note: Up to 100 devices can be added to the application.

Devices that can be connected

This app provides support for following devices:

- TruVision TVR 10, 11, 40, 41, 60 digital video recorders
- TruVision TVN 20, 21, 50 network video recorders
- TruVision TVC-N, TVC-M IP box cameras
- TruVision TVD-N, TVD-M IP dome cameras
- UltraView UVP-N, UVP-M IP PTZ cameras

Add a device

1. Tap  and select  to enter the **Devices** interface.
2. Tap **Add** to add a new device.



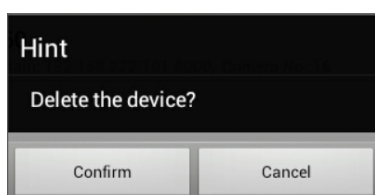
3. Enter the name of the device to be linked, such as a TruVision DVR or TruVision IP cameras. The name can have up to 16 alphanumeric characters. Default name is Device01.
4. Under **Register Mode**, select either ezDDNS or IP/Domain.
ezDDNS: When the device is registered in the ezDDNS server, you need to enter the registered ezDDNS server address and device domain name.
IP/Domain: manually access the device using a fixed IP address or a domain server. You need to edit the IP address or domain address.
5. Enter the user name and password (if required).
6. Tap **Save** to confirm the settings. The device is added to the device list.
7. Tap **Devices** to exit and return to the main page.

Modify a device

1. In the **Devices** interface, select the device you want to modify. The Device Information screen appears showing the device parameters.
2. Tap **Edit** to modify the parameters of a device. Enter the new parameter values.
3. Tap **Save** to confirm the settings.
4. Tap **Devices** to exit and return to the main page.

Delete a device

1. In the **Devices** interface, tap the delete icon of the device that you want to delete. The **Hint-Delete Device** pop-up dialog box appears.



2. Tap **Confirm**. The device disappears from the list.

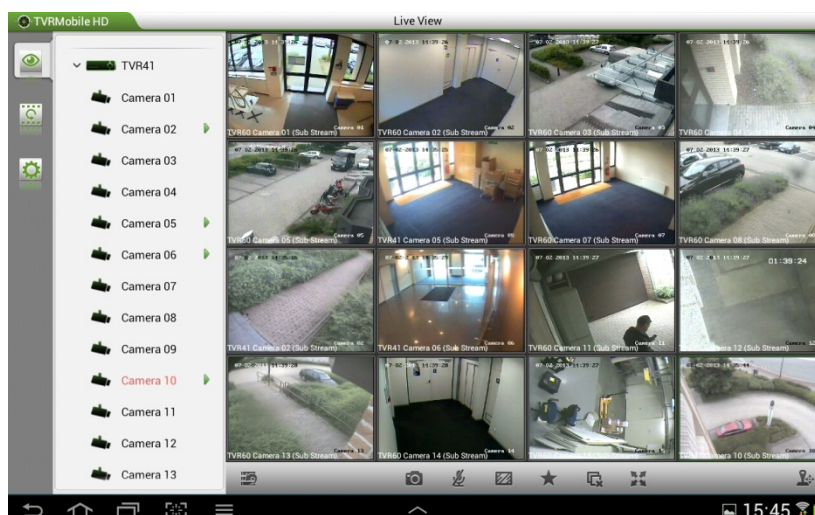
Live view









Once the parameters of the device have been configured in TVRMobile HD, you can access live video directly as well as control PTZ cameras. See Figure 1 below for the live view interface.

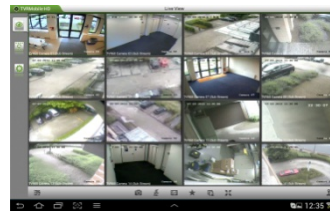
Up to 16 cameras can be viewed live at the same time. If a selected device has more than 16 cameras, only the first 16 cameras will be displayed.

Note: The display format is one video tile by default.

Figure 1: Live view interface



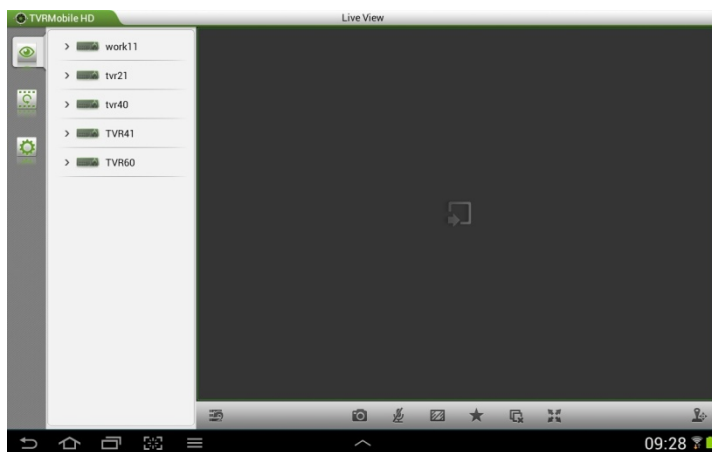
Icon	Description
	Capture a video snapshot of the selected camera image.
	Start/stop bi-directional audio.
	Switch between main stream and substream for the selected camera.
	Set favorite cameras and views.
	Stop all live views.
	Full screen.
	PTZ control.
	Display/hide the device nodes.



A green triangle appears alongside all the cameras displayed in the window. The selected video tile is displayed in red in the device list.

Start live view

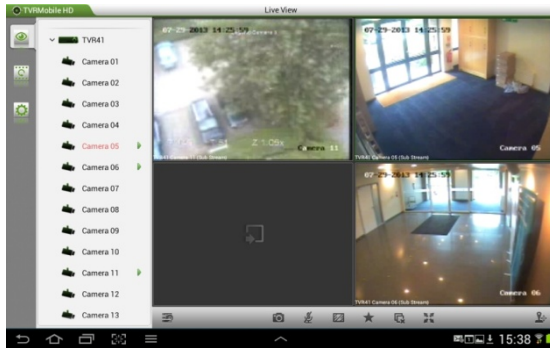
1. In the live view interface, tap  to display the list of available devices.



2. To view all the cameras of a device, drag the desired device node to the window for live viewing. All the cameras for that device are displayed in a multi-tile format.

— Or —

To view specific cameras of a device, drag each desired camera nodes of a device to the window for live viewing.




Live view starts immediately.



Note: You can easily reorganize the sequence of cameras by dragging a camera view to another position in the window.

Stop live view

There are two methods to stop live view:

Stop all cameras: Tap  to stop live view for all cameras.

— Or —

Stop a specific camera: Tap and hold the live view screen of the desired camera. This  icon appears at the top of the screen. Drag the selected camera's screen upwards until the icon changes to , and then release the camera screen.

Favorite cameras and views



You can group the most important or frequently used cameras and views in a Favorites folder so that, for example, they can be easily and quickly accessed in live view. There are two favorite options:

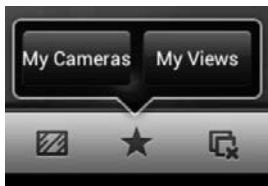
My Cameras: Select individual cameras in live view.

My Views: Select group of cameras so that their views are quickly accessible. This could be, for example, the cameras that view all of a building's entrances and exits.

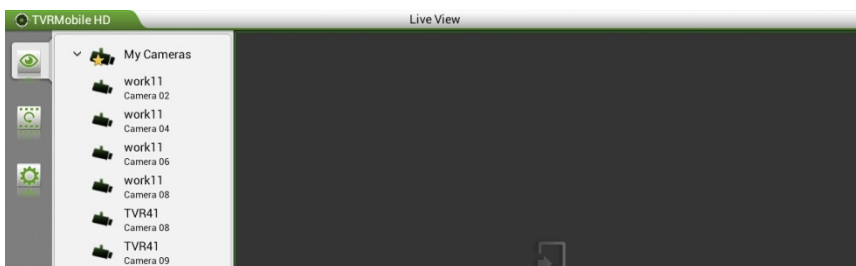
To view your favorite cameras and views, tap **My Views** or **My Cameras** node in live view, and drag the desired view or camera into the window to immediately see it.

To add a favorite camera from live view:





1. In the live view interface, tap  to display the list of available devices and their cameras.
2. Tap and hold the desired camera in the list. Drag it to the display window.
3. Tap  and click **My Cameras** in the pop-up dialog box.




The camera is immediately added to the favorites list.



To add/delete a favorite camera:

1. Tap  and select  to enter the **Favorites** interface.
2. Tap  to display the devices with their cameras. Select a device.
3. To add a camera to the **My Camera** group, tap the camera's . It turns yellow when selected.



To delete a camera from the group, tap the camera's . It turns grey when deselected.






The changes are automatically saved.

The favorite camera group is now listed under devices and is identified by a star in its device icon.

To add a favorite view:

1. In the live view interface, tap  to display the list of available devices and their cameras.
2. Drag the desired cameras into the display window. Select the required device.
3. Tap  and click **My Views** in the pop-up menu. The camera group is immediately added to the favorites list.

To delete a favorite view:

1. Tap  and select  to enter the **Favorites** interface.
2. Tap  to see the list of **My Views** available.
3. Tap the delete icon of the view to be deleted and confirm.

Note: Views can only be added in live view.

Full-screen live view

When using live view in multiview format, you can easily watch a specific camera image in full-screen view by double-tapping on the desired image. Double-tap again to return to the multiview format.

PTZ control



In live view, select the camera for PTZ control and tap . The PTZ control panel appears (see Figure 2 below). The icon changes to .

Figure 2: PTZ interface



Table 3: PTZ icon description

	Tap to zoom in or out.		Click to control PTZ movement.
	Tap to focus in or out.		Move button to adjust pan and tilt speed.
	Tap to adjust the brightness level by adjusting the iris.		

Note: If live view is in multiview mode, first select the camera for PTZ control and then tap . The selected camera becomes full screen.

Move your finger on-screen to pan left/right and tilt up/down camera movement. Pinch you fingers apart or together to zoom in or out.

Quit PTZ control mode by tapping .

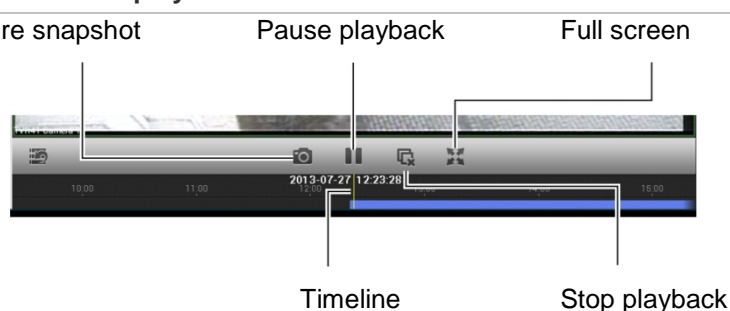
Note: You cannot set or call up presets.

Playback

You can search recorded video files on the remote storage device for playback. Drag the timeline bar to modify the playback time.

You can playback up to four cameras at the same time.

Figure 3: Description of the playback toolbar



Start playback

1. In the playback menu, tap to display the list of devices available.
2. Tap the start and end date/time boxes to set the start and end date as well as time for playback search.




3. Drag a device or camera node to the display window for playback. Playback starts immediately.

Stop playback

There are two ways to stop playback. You can:

- Tap  to stop playback.
— Or —
- Drag the playback window upwards to the top of the screen. A  icon appears. When it changes to , release the window. It is then deleted.

Capture images

You can capture images from cameras during playback. To capture an image, select a camera in playback and tap .


The snapshots are saved in the photo folder of your tablet, where they can be viewed and deleted.

Full-screen playback

During playback, tap the full screen button to get full-screen mode. Tap and hold on the right edge of the playback toolbar and drag to reposition it.

Figure 4: Description of the full screen playback



 Pause playback

 Capture image

 Restore

Configuration

Password protection

The application does not have password protection by default. By setting up password protection, you ensure that only persons knowing the password can access the TVRMobile application.

To enable/disable password protection:



1. Tap  and select  **Local Config** to enter the **Configuration** interface.

Password protection is indicated as **On** (enabled) or **Off** (disabled).

2. To enable password protection, tap **Off**. Enter the password in the pop-up dialog box and tap **Confirm** to save the settings.

To disable password protection, tap **On**. Enter the password in the pop-up dialog box and tap **Confirm** to save the settings.

To modify a password:



1. Tap  and select  **Local Config** to enter the **Configuration** interface.
2. Tap **Modify Password** and enter the old and new passwords in the pop-up dialog box. Tap **Confirm** to save the settings.

Update software

When there is a new version of the TVRMobile application available in the App Store, the software will automatically prompt you to update the software. You can update the software immediately when prompted or update it later.

The **Software Update** button is only available when there is a new version of the software in the Android Market or the Apple Store.

To update the software:

1. Tap  and select  **Local Config** to enter the **Configuration** interface.
2. Tap **Software Update**.
3. Tap **Confirm** on pop-up notification. This will take you to the app store.
4. Update with the new version of the app.

Get help

Online instructions for using the application can also be found under  > **Help**.

If you continue to have problems, please contact your local supplier.

Troubleshooting

1. Which devices are supported by the TVRMobile HD software?

A device requires H.264, MPEGS4 or MJPEG video compression to be compatible with this software. Examples of devices that can be used with this software are embedded DVRs, NVRs, IP cameras, and IP speed domes.

2. Why does the mobile client software prompt 'Login failed' when trying to access the device via Wi-Fi?

Please check the network settings of the device being accessed. It is also important to ensure that the device is always online and accessible.

3. Why does the mobile phone respond slowly during live view and the video images freeze?

This problem may be due to the lower performance of your mobile device. Try reducing the number of cameras viewed at the same time, or decreasing the frame rate and resolution. See Table 4 below for guidelines.

Table 4: Video recommendations

Resolutions	Recommend number of cameras	Recommend frame rate
CIF	1	8 fps or lower
QCIF	4	8 fps or lower

