



TruVision TVRmobile (Android) User Manual

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Introduction

Overview

The TruVision TVRmobile is an Android application that can be used over a wireless network to remotely view live video from DVRs, IP cameras, PTZ cameras and DVSs. 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 WiFi, 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

Hardware : CPU 500 MHz or higher, available RAM at least 15MB

Software : Android OS V1.6 and above

Table 1: TVRmobile system requirements

Maximum number of devices that can be added	16
Network stream	Substream
Frame type	BBP or single P
Frame rate	2 to 8 fps (depending on the performance of the mobile device)
Resolution	QCIF, CIF
Stream type	Video
Bit rate	32 to 512 Kbps (depending on the network environment)

Mobile devices supported

We have tested the app on the devices listed below, which are the officially supported devices. Users may try it on other Android devices at their own risk. UTC will not support any issues reported using an Android device not listed below.

- Samsung Captivate: OS v2.2
- HTC Aria: OS v2.2
- HTC Nexus One: OS v2.2
- Motorola Droid 2: OS v2.2
- Samsung Fascinate: OS v2.1
- HTC Incredible: OS v2.2
- HTC Droid Eris: OS v2.1

- LG Optimus: OS v2.2
- HTC Hero: OS v2.1 Update 1
- T-Mobile G2: OS v2.2
- Motorola MB502(CHARM): OS v2.1 Update 1

Software setup

Note: The phone must be connected to the internet before installing the TVRmobile application.

Installing the TVRmobile apps from the phone

1. Go to the Android Market Web site and search for the TVRmobile application.
2. Download it.
3. On your phone, tap  to open the All App screen where the TVRmobile icon  is listed.

Login

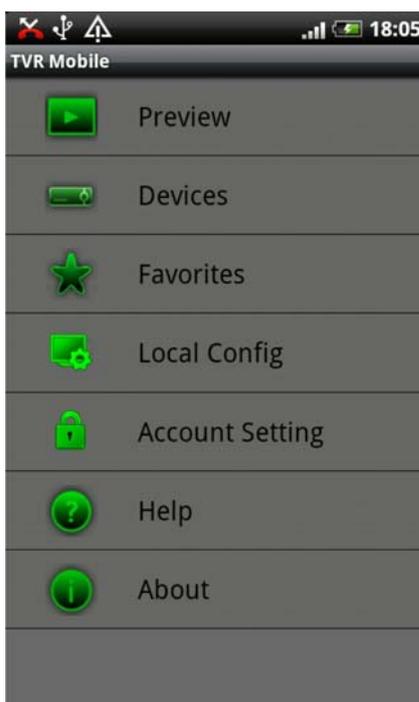
Creating a user

1. Tap  on the TVRmobile home screen to open the application.
2. Enter your user name.
3. Enter your password and confirm it. Tap **Register**. The main menu screen appears.

Logging in

1. Tap  on the TVRmobile home screen to open the application.
2. The application automatically remembers the last user to have used the application and opens with this user as default. Enter your password (if required).
Click **Auto Login** to save your password so that the application will automatically login next time.
3. Click **Login**. The main menu screen appears.

Main menu description



Live view (Preview)	<p>Live mode and PTZ control.</p> <p>See “Live mode” on page 10 for more information.</p>
Devices	<p>Manage devices such as add a new device, delete a device, display information about the device.</p> <p>See “Device management” on page 8 for more information.</p>
Favorites	<p>Define specific cameras as your favorites so that you can quickly jump to them.</p> <p>See “Group management” on page 12 for more information.</p>
Local Config	<p>Configure the access point and speed for PTZ control.</p> <p>See “Local configuration” on page 13 for more information.</p>
Account Setting	<p>Password modification.</p> <p>See “Changing the password” on page 14 for more information.</p>
Help	<p>Help information</p> <p>See “Getting help” on page 14 for more information.</p>
About	<p>Software version.</p> <p>See “Getting help</p> <p>In the main menu, tap  to open the help file. If you continue to have problems, please contact your local supplier.</p> <p>About the software” on page 14 for more information.</p>

Device management

The device list is empty by default. You must first add the required devices to the TVRmobile device list before you can access them.

Note: Up to 16 devices can be added to the application.

Devices that can be connected

The following DVRs can be connected:

- TVR 10 (firmware version 2.2 or above)
- DVSR xU (firmware version 2.3s or above) (available in Europe, Middle east and Africa only)
- TVR 40 (available in Europe, Middle east and Africa only)
- TVR 60

The following cameras can be connected:

- TVC-M1120-1-N(-P)
- TVC-M2110-1-N(-P)
- TVD-M2110-2-N(-P)
- TVD-M1120V-3-N(-P)
- TVD-M2110V-3-N(-P)

Adding a device

1. Tap **Devices** in the main menu. The Devices screen appears.
2. Click the **Menu** button and then tap **Add**. The New Device screen appears.

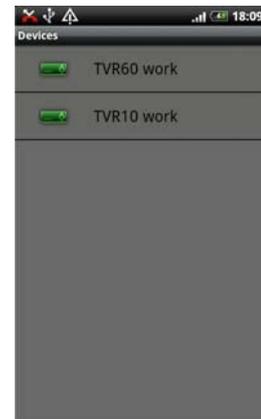


3. Enter the following information:

Device name	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.
Register mode	Select either IP or DDNS. Use Domain when there is no fixed IP address available.

Address	Enter the IP or dynamic name address of the device.
Port	Enter the com port address of the device. For example, 8000 (default).
User name	Enter the device's user name. It can have up to 16 alphanumeric characters.
Password	Enter the device's password.
Chan. no.	Enter the number of cameras for the device to be linked.

4. Click the **Menu** button on the phone and then tap **Save** to save the settings. The device is added to the device list.



5. Click the **Menu** button and then tap **Add** to add another device to the application or click the  button to exit and return to the main menu.
6. Click the  button to exit the application and return to the home screen.

Modifying and deleting a device

1. Tap **Devices** in the application's main menu. The Devices screen appears. All the devices added to the TVRmobile application are listed.
2. Tap the device you want to modify or delete. The Device Detail screen appears showing the parameters of the selected device.
3. To modify the parameters of a device:

Click the **Menu** button and tap **Modify**.

Tap the parameter to be modified and enter the new value using the keypad.

Click the **Menu** button and then tap **Save** to save the changes.



4. To delete a device:

Click the **Menu** button and tap **Delete**.

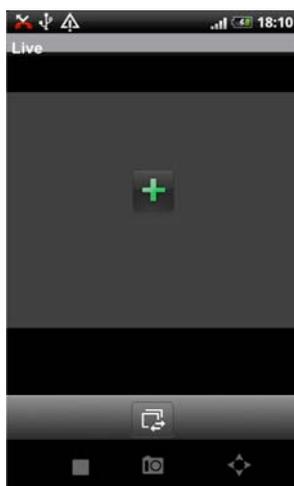
A screen appears asking you to confirm that you want to delete the selected device. Tap **OK**. The device disappears from the list.

5. Click the  button to exit and return to the main menu.

Live mode

Once the parameters of the device have been configured in TVRmobile, you can now access live video directly from it as well as control PTZ cameras. See Figure 1 below for the live view screen. Only one camera can be viewed at a time.

Figure 1: Live view and toolbar icons



Button	Description
	This icon appears when there is no camera selected. Tap the cross to obtain the Select Channel screen and select a camera for live view from the list of devices.
	Tap to change the camera in the selected cameo. If there are already four cameos open in multiview, the next camera selected will replace the camera that was first opened.
	Tap to stop live streaming of video from the selected camera.
	The snapshot option is unavailable.
	Click to call up the PTZ control arrows on-screen for PTZ control. See “Controlling a PTZ” on page 11 for more information on PTZ control.

Portrait and landscape mode

You can use the application in portrait or landscape orientation. However, the icons associated with PTZ control are unavailable in live mode when your phone is in landscape orientation.

Figure 2: Portrait and landscape view (PTZ mode shown)



Portrait mode



Landscape mode

Accessing live mode

1. In the main menu, tap . The live view screen appears.
2. Tap or to select a camera for live view. The Select Channel screen appears. All the devices installed on the phone are listed.
3. Tap the desired device, such as a DVR. All cameras listed under this device are shown.
4. Tap the desired camera in the list. The live view immediately appears on-screen. By default it occupies one of the four multiview cameos.
5. To stop live view for a selected camera, select a camera and tap . The green cross appears.
6. Click the button to return to the main menu.

The live view from the camera is not disconnected. You can, for example, change configuration settings and then return to live view by tapping again. The application returns to the live view of the selected camera.

Controlling a PTZ camera

1. In the main menu, tap . The live view interface appears.
2. Tap to call up the PTZ toolbar and on-screen arrows.
 - Tap to enter a preset value.
 - Tap to adjust the brightness level.
 - Tap to zoom in.
 - Tap to zoom out.



3. Tap the on-screen arrows to carefully position the camera in the desired preset position.

▲ PTZ up, ▼ PTZ down, ◀ PTZ left, ▶ PTZ right

4. To set a preset position:

Tap  to bring up the Call/Set interface. Enter a preset number in the edit box and click **Set**. The preset value is saved in the phone.



5. To call up a preset position:

Click the  to bring up the Call/Set screen. Enter a preset number in the edit box and tap **Call**. The camera moves to the preprogrammed position.

6. Tap  or  to zoom in and out respectively of the selected camera image:

7. Tap  to adjust the brightness of the video image. The iris control bar appears on-screen. Move the slider to the desired brightness.

When completed, tap  again to close the iris control bar.

8. Tap  to quit PTZ mode and return to live mode.

Group management

You can group the most important or frequently used cameras in the Favorites folder so that, for example, they can be easily and quickly accessed in live view.

Use the Favorite screen in the main menu to add individual cameras to your Favorites list.

Adding a camera to the favorite list

1. Tap  in the main menu.
2. Click the **Menu** button and then tap **Add** to open the camera selection screen.
3. Tap the desired device to see the drop-down list of all cameras associated with that device.
4. Tap the desired camera to add to the Favorites list and then tap **Add**. A message appears to say that the camera has been successfully added.

When you have selected all the cameras required, click  button on the phone to exit.

The Favorite list now shows all the cameras selected.

5. Click the  button to return to the main menu.



6. To select a camera from the favorite list click the favorite icon in the main menu. Click the desired camera to see its images in live view.

Deleting a camera from the favorite list

1. Tap  in the main menu.
2. Tap a camera in the favorite list to select it and then tap .
3. Tap **OK** to confirm delete or **Cancel** to abort.
4. Tap **Back** to return to the main menu.

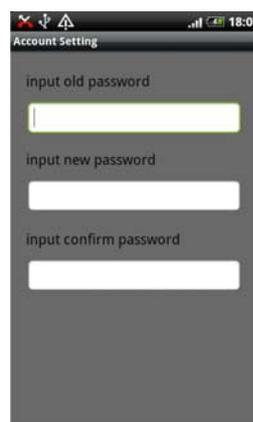
Other features

Local configuration

1. In the main menu, tap . The local configuration interface appears.
2. To access the device over a wireless network (WiFi), tap **WirelessSetting**.
3. To set up the system so that a password is required when logging in, select one of the following options from the Auto Login drop-down list:
Yes: Automatically log in. No password required.
No: Password required to log in.
Note: This function can also be done when logging in (see “Logging in” on page 6.)
4. To adjust the speed of the pan and tilt movement drag the position of the PTZ step ball along the scroll bar.
5. Click the **Menu** button on the phone and then tap **Save** to save the changes.
6. Click the  button to exit and return to the main menu.

Changing the password

1. In the main menu, tap . The Account Setting screen appears.
2. Enter the old and new passwords. Re-enter the new password to confirm it.
3. Click the **Menu** button.
4. Tap **Save** to save the changes and return to the main menu.



Getting help

In the main menu, tap  to open the help file. If you continue to have problems, please contact your local supplier.

About the software

In the main menu, tap  to see the software version of the application. Tap **Back** to return to the main menu.

Troubleshooting

1. Which devices are supported by the TVRmobile software?

A device requires a H.264 encoder to be compatible with this software. Examples of devices that can be used with this software are embedded DVRs, DVSs, IP cameras and IP speed domes.

The device must also support dual stream.

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

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 2 on page 15 for guidelines.

Table 2: Video recommendations

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

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