

# TVman Home

## User Manual V2.0



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## I. About this manual

This manual covers the functions and software instructions of TVman Home. Please review this manual before the usage of TVman Home. Due to the continued progress in methodology, design and manufacturing of our products, the contents of this document are subject to revision without any prior notice. DediProg assumes no legal responsibility for any error or damage resulting from the use of this document.

## II. Safety warning

Any personnel involved in the use of TVman Home must understand and obey the following to keep damage and harm away from product and user:

- TVman Home must be used exclusively for its application described in this user manual and nothing else.
- Keep the product from external impact.
- Do not dismantle and tamper the product by yourself as it may cause electrical shock.
- Keep the product and accessories such as charger, cable, antenna, etc. away from heating sources. Failure to obey may cause serious injury or death.
- The operating temperature of this product should be between 0°C - 40°C.
- The operating humidity of this product should be between 0% - 40%.
- Only use the provided cable, power supplier, batteries or others accessories.
- Keep the product out of the reach of children, infants, and pets.
- Do not apply strong force to the antenna. This may degrade the reception quality
- This product will generate electromagnetic field that may damage equipment such as portable computer, disk drive, magnetic card, etc. that could be affected by electromagnetic fields emitted from device. Please do not place such predisposed equipment direct on top of the product.
- This product will emit electromagnetic field that may be hazardous to the health of any person who is wearing a pacemaker. A distance of at least 20cm is recommended to be maintained between the antenna and your pacemaker.

### III. Product overview

TVman is a wireless DVB-T antenna streaming local Digital TV to your Mobile devices through WiFi. Over the Air TV is now available on your home Wireless LAN offering high flexibility for user to watch the program from any rooms on his smart Phone, tablet or computer by a simple click.

TVman Home has been declined in two versions to offer the best cost effectiveness:

**- “TVman Home Wi-Fi”:**

This version has been designed with WiFi to be connected to the router wirelessly or to generate its own WiFi network when no router is available (Hotspot)

**- “TVman Home LAN”:**

This version has been designed without WiFi and must be connected to the router via the LAN cable. TVman Home LAN cannot work in Hotspot mode.

#### A. WLAN mode

In **WLAN mode**, TVman Home is connected to your home router and makes the free to air TV program available from any smart device connected on the wireless LAN. This mode offers the best flexibility to watch TV from anywhere at home and from different smart devices.

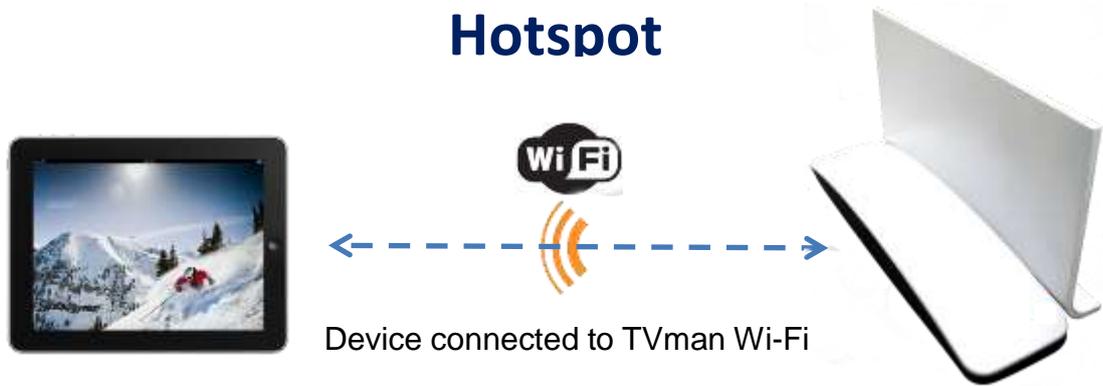


**Advantages of working in WLAN: Family usage**

- Router offers a best Wi-Fi coverage of your home so you can watch the TV on your tablet from different room. We recommend using WiFi routers supporting dual band (2.4GHz/5GHz) with 3T3R antenna and connect your smart device through 5GHz Wi-Fi.
- Any smart device connected to your home Wireless network can access the Live TV in a single click in our application (one at a time) and keep internet connection.
- Recorded file are shared in your network to be played from any smart devices connected.

**B. Hotspot mode: TVman Home WiFi only**

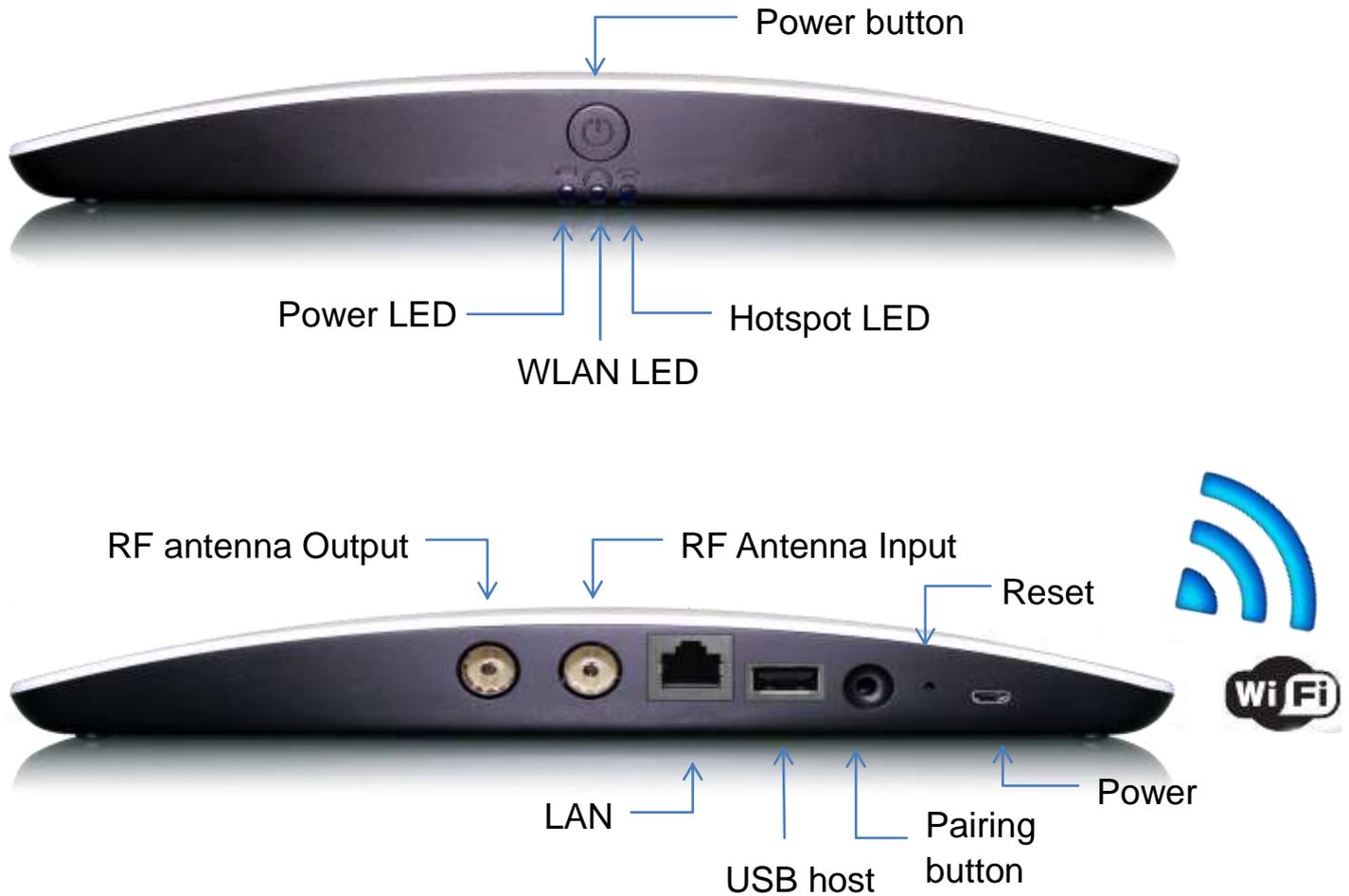
In **Hotspot mode**, “TVman Home Wi-Fi” creates its own Wi-Fi network and streams the Live TV directly to your smart device.



**Advantages of working in Hotspot mode: Personal usage**

Hotspot mode is designed for a personal usage or when no Wi-Fi router is available at home or when you are watching DTV outdoor.

## IV. Product hardware description



Part ID	Description	
Power button	Power on/off	Power on: Press button for 2 seconds.
		Power off: Press button for 2 seconds.
Power (Micro USB)	Power input of TVman: supply TVman and charge battery (option). Input: 5V/2A min	
USB Host (Type A)	USB Host to record Live TV on HDD or USB memories. Output 5V/1A max	
LAN	TVman Home can be connected to the router with the LAN cable. When LAN is connected, TVman Wi-Fi is turned OFF.	
RF Out	RF output signal to connect to your TV. Antenna is shared between your TV and TVman.	
RF In	RF input signal from your terrestrial UHF antenna	
Pairing button	Short press in WLAN mode: start Easy pairing with router (WPS)	
	Long press: Change mode from WLAN to Hotspot or Hotspot to WLAN	
Reset	Long Press: restore factory setting	
Wi-Fi	Wi-Fi is only available on the "TVman Home Wi-Fi" version	

LED	Behavior description
WLAN LED (Orange)	TVman is connected to your wireless router and transfer the DTV to your Home WLAN. Connect your mobile device to your WLAN and open the player.
	LED solid: TVman is connected to router and available
	LED Slow Flashing: TVman is busy transferring DTV to a smart device in the WLAN. Not available.
	LED Fast Flashing: easy pairing on going (WPS)
Hotspot LED (Blue)	TVman WiFi is available in Hotspot mode. Smart device can be directly connected to TVman Wi-Fi network.
	LED Solid: No Wi-Fi communication on going. TVman is available.
	LED Slow Flashing: TVman is busy transferring DTV to a smart device. Not available.
Power LED	<b>Green:</b> USB powered or battery charging completed (option)
	Solid <b>Red:</b> battery is charging (option)
	Slow Flashing <b>Red:</b> battery low charge (option)
	Fast Flashing <b>Red:</b> Error
WLAN and Hotspot	Both LED flashing: Firmware upgrade ongoing
All LED	All LED flashing: boot on going

## V. Installation Guide

### A. TV Antenna:

- **Share antenna with your TV:**

If your TV is already equipped with a Terrestrial UHF antenna either on the roof or indoor, disconnect the antenna from your TV and connect it to the Back of TVman in the antenna “RF IN” connector. Use the antenna cable provided with TVman to connect the antenna “RF OUT” from TVman to the TV. The original antenna will be now shared between TVman and your TV. This method ensures the best reception for your TV and for TVman.



- **Connect TVman to an indoor antenna**

if no antenna is available from your TV then TVman can be also connected directly to an indoor antenna with high reception performances. Connect the indoor antenna to the antenna “RF IN” connector on the back side of TVman. In such case, further trials will be required to place the antenna at the best reception location and with the best orientation. TVman wireless signal offers high flexibility to receive the Live TV signal in one location but watch on another location.

**Tips to improve the TV reception:**

- **Get the right direction:** Inform you about the location of the DTV broadcast antenna in your area to position your antenna on this direction. Check the neighbor roof antenna direction. If possible, move TVman in a room which faces this direction.
- Place TVman close to the window where the TV signal is usually stronger.  
TVman is a wireless antenna and can be place in any room with the best reception while watching the TV in another room. Fine tuning can be performed later when watching the channels.



**B. Power supply**

- **Permanent power:**

TVman Home will be connected to your home AC power supply for a permanent use. Connect the AC/DC power supply provided with TVman to the micro USB connector and to your home AC power outlet. TVman requires 5V/2A power supply to work normally.

- **Battery (optional): Available for “TVman Home WiFi” only**

if TVman has been provided with a battery, open TVman and insert the battery so it can be charged for a later use. Battery will offer the flexibility to take TVman away and enjoy your favorite program from anywhere. Portable antenna will be required in that case too

- **USB power bank for on the go:**

If no battery has been provided, it is also possible to use a Power bank device to supply TVman. The Power bank battery capacity needs to be higher than 1500mAh with 1A output current minimum to enjoy 3 to 4 hours play time. If you want TVman to also supply an external HDD from its USB Host connector then the battery bank should supply at least 5V/2A.



## C. Connection to the Router

- **The router and antenna are close:**

TVman Home has to be placed near your Terrestrial TV antenna connection. If the router is close then it is better to connect TVman to your router by LAN cable. Connecting TVman to the router with the LAN cable will help to divide by two the Wi-Fi load of the router while transferring DTV. TVman Wi-Fi is turned OFF when LAN cable is used for the transfer.

- **The router and antenna are at different location:**

It often happens that the antenna is available in the living room close to the TV while the router is located in another room to get access to the phone line (ADSL). In such case, it is convenient to connect TVman to the router using Wi-Fi communication. This option is only available on “TVman Home WiFi”. Refer to Quick user guide for more information on how to connect TVman via WiFi.

## D. USD Hard Disk Drive

A USB Hard Disk Drive should be connected to TVman USB Host to schedule and share some recording. The HDD should have been formatted in FAT32 or NTFS format. We recommend NTFS format to record long program of more than 1 hour.

## E. Optional battery: TVman Home WiFi only

If you are planning to use TVman Home Wi-Fi outdoor, you can either order our 1850mAh battery offering more than 4 hours of entertainment on the go or connect it to your own Power bank.

## F. Player software

### 1. Apple devices

Download and install “TVman DVB” from AppsStore on your iPhone or iPad.

### 2. Android devices

Download and install “TVman DVB” from Google Play on your smart device.

### 3. Window PC (XP, Vista, W7, W8)

Download Window PC application player from our website.



## VI. Start Guide

### G. Hotspot mode

In hotspot mode, TVman create its own WiFi. You need to connect your mobile device directly to TVman WiFi.

1. Power up TVman by pressing power button for 2 seconds.
2. Open the Wi-Fi setting of your smart device to connect it to TVman Wi-Fi network (TVmanxxxx)
3. Open the TVman application on your smart device and wait until connection with TVman is successful.
4. At first connection, Frequency scanning is required to display the local broadcasted channel list.
5. Select channel to watch

### H. WLAN mode

If you want to stream the DTV to your home WLAN, you must first connect TVman to you router by using the LAN cable or by using TVman WiFi as described here below:

- **Method 1:** if your wireless router supports WPS function, perform a short press on the TVman Pairing button and on the router WPS button. Both devices will communicate for few seconds to exchange the SSID and Password and connect to each other.
  - **Method 2:** connect your Mobile device to TVman in HOTSPOT mode (as described above) and open the player. Once the player is connected to TVman, Click the setting to enter your home wireless LAN SSID and password. This information will be sent and stored in TVman memory for automatic connection during the following boot. Power OFF and power ON TVman.
1. After boot, TVman will connect automatically to your router and will stream the DTV to your WLAN. TVman own WiFi will be turn off and cannot be find any more from your Phone.
  2. Connect your Mobile device to your router WLAN.
  3. Open TVman application (TVman player will find TVman through the WLAN network)
  4. Scan frequencies at the first time.
  5. Select a channel to watch.

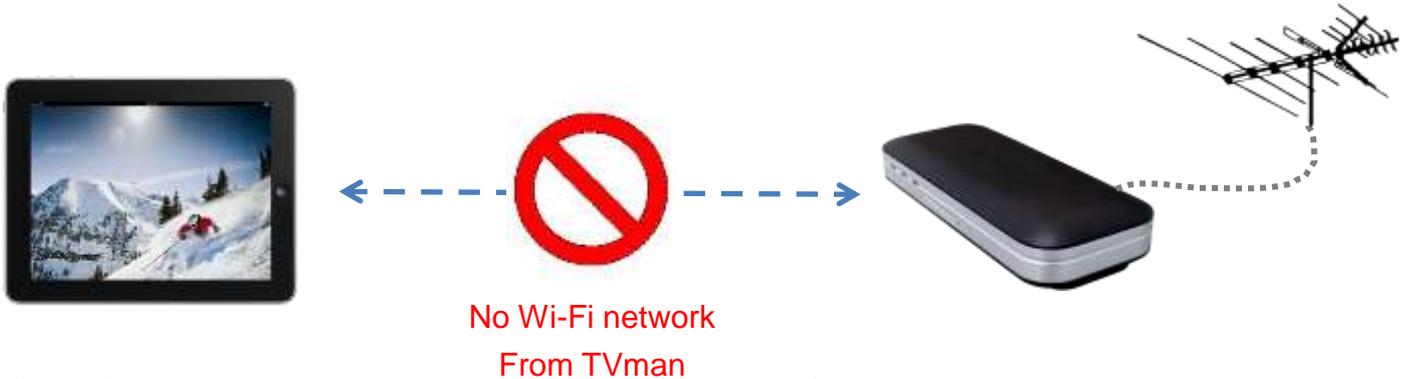
**Important 1:** From that point, TVman will always try to connect on your WLAN after boot. If the wireless LAN is not available, it will switch automatically to hotspot mode.



**Important 2:** When TVman is in WLAN mode, no “TVman Wi-Fi” (TVmanxxx) will be detected by your smart device. You have to connect your smart device Wi-Fi to your home wireless LAN and open TVman application. The Player will detect and communicate with TVman through the router.

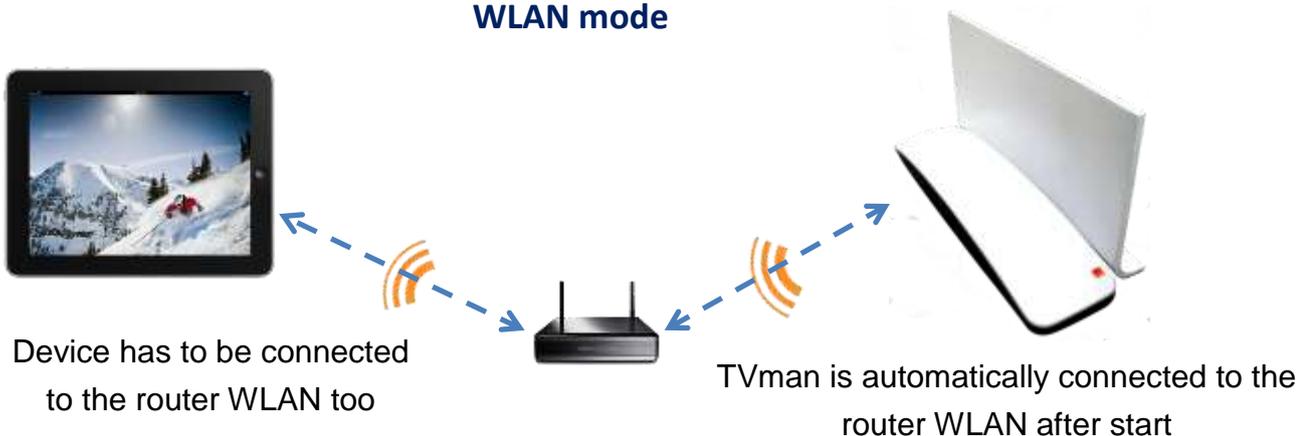
**Mobile device cannot be connected directly to TVman while in WLAN mode:**

### WLAN mode



**Mobile devices need to be connected to the router while TVman is in WLAN mode.**

### WLAN mode



## VII. Troubleshooting

### 1) My player display “connection failed”:

- a. Check TVman LED to know its working mode and connect your Mobile device accordingly:
  - If TVman LED is Blue (Hotspot mode): Connect your device WiFi to “TVman Wi-Fi” (TVmanxxx).
  - If TVman LED is Orange (WLAN mode): Connect your device WiFi to your router WLAN. Open the application again.
- b. **Hotspot mode:** Check if your Mobile device is not too far from TVman
- c. **WLAN mode:** Check if your Mobile device and TVman are not too far from your router. Both are communicating through the router and must be close enough from this last one for a good communication.



**2) My player display “TVman is occupied”:**

TVman cannot simultaneously stream DTV to more than one device.

If the orange or Blue LED is flashing, TVman is in communication with another smart device.

**3) Why TVman is in Hotspot mode (blue LED) while I expect it to be in WLAN mode (Orange LED)?**

- a. TVman may have failed to detect your router during the boot and has switched automatically to hotspot mode (Blue LED ON). Try to move TVman closer from your router.
- b. TVman may have failed to connect to your router due to a configuration problem.
  - Try to turn OFF and ON TVman, for new WLAN connection trials.
  - If it still fails, try again to pair TVman with your router using methods described in chapter H. Use WPS button or enter router SSID/Password in Hotspot mode.
- c. If TVman is connected to your router by LAN cable, please check that the subnet assigned by the router to the LAN network and the Wireless LAN network are the same. Refer to your router user manual.

**4) Why TVman is in WLAN mode (Orange LED) while I expect it to be in Hotspot mode (blue LED)?**

Once you have paired TVman to the router either with WPS button or by entering the SSID/Password or by connecting the LAN then TVman will always attempt to connect by default to your WLAN router at the boot. If it cannot find the WLAN, it will switch to Hotspot mode.

IF TVman is connected to the router with LAN cable, its WiFi is turn OFF.

**5) How do I force TVman to work in Hotspot mode (Blue LED) while in WLAN mode (Orange LED)?**

- a. You can force TVman to switch from WLAN mode to Hotspot mode by a long press on the pairing button.
- b. If you move TVman away from your router WLAN, it will lose the connection and switch to Hotspot mode to create its own WiFi.
- c. You can delete the SSID/Password from TVman and come back to the factory setting by a long press on the reset button. Your router will become unknown for TVman so it will always boot up in Hotspot mode.

**6) I cannot find TVman Wi-Fi (TVmanxx) from my smart device**

- a. Check if TVman is well powered and turn ON. If the Power LED is RED flashing quickly is that your battery is in low charge. Connect to USB source to charge.
- b. Check if TVman is in WLAN mode (Orange LED). If the LED is Orange, it is possible that TVman has detected a known WLAN network at the boot and connected to it. In WLAN mode, TVman will not generate its own TVman Wi-Fi (TVmanxxx). Long press on the pairing button to switch from WLAN mode to Hotspot mode.



### **7) Weak TV signal: TV bar graph on player indicated low signal**

After scan, you do not have all the channels listed, some have no name or video results in poor quality. The DTV signal might be weak at your location.

- a. Terrestrial Roof antenna often offers the best reception.
- b. If roof antenna is not available, try first to move TVman antenna outside (open your window) to perform a successful scan and test the antenna direction to obtain the best reception. You can also observe neighbored roof antenna to check the direction.
- c. Move your TVman and antenna to a room facing the local TV broadcast.
- d. Move the TVman antenna close to a window where the signal is usually stronger.
- e. If your window is equipped with UV filter, use high performance antenna or place your antenna outside on the balcony.
- f. Rotate the antenna to face the local broadcast until you can obtain the best video.

### **8) Weak Wi-Fi: TV bar graph on player indicated Good TV signal reception but video is not smooth**

#### **a. Hotspot Mode: Wi-Fi signal quality depends on:**

1. Distance between TVman and your phone: test closer
2. TVman environment: Move TVman away from any metal or electrical equipment generating electromagnetic field.
3. Wi-Fi noise: Wi-Fi communication can be disrupted by different sources of RF signal at home (other Wi-Fi routers, Micro-wave, Wireless Phone etc..).
  - Download "Wi-Fi analyzer" apps and scan the local Wi-Fi network to identify which channels are already used.
  - Enter the TVman setting in the player and change the Wi-Fi channel of TVman to select unused one.

#### **b. WLAN Mode: Wi-Fi signal quality depends on:**

1. Distance between TVman and the router: if TVman is connected to router through WiFi move them closer or try a connection with LAN cable.
2. Distance between your phone and the router: test closer
3. TVman and router environment: Move TVman and router away from any metal or electrical equipment generating electromagnetic field.
4. Wi-Fi noise: Wi-Fi communication can be disrupted by different sources of RF signal at home (other Wi-Fi routers, Micro-wave, Wireless Phone etc..).
  - Download "Wi-Fi analyzer" apps and scan the local Wi-Fi network to identify which channels are already used.
  - Enter the router setting (refer to router manual) and change the Wi-Fi channel to select unused one.



- 2.4GHz WiFi can have more source of disturbance compare to WiFi 5Ghz. If your router support dual band (2.4GHZ/5GHZ) connect your phone to your router by 5GHz Wi-Fi to have a better immunity to noise and better coverage.
- We suggest using Router supporting IEEE 802.11n or 11AC minimum, Dual band (2.4GHz/5GHz) and 2 or 3 antenna (2T2R or 3T3R) for the best performances and home coverage with Live TV.

#### **9) My video is not smooth while my TV signal and Wi-Fi communication are good**

The problem can be due to a video decoding limitation of your smart Device:

- a. Your smart Device CPU is not power full enough: 1GHz CPU minimum is required for DVB-T SD MPEG2 video. Try with your computer to confirm.
- b. The Video definition of the broadcast is too high to be decoded on your device: TVman Player can decode MPEG2 and MPEG4 (H264) video format but the limitation can be caused by the video compression quality of the broadcast and your smart device CPU performance.

Contact us to collect more information about your video broadcast.

#### **10) Can TVman support HD broadcast?**

- Yes, TVman is HD ready and can transfer HD video (15Mbs max) to Smart devices and computer. The decoding limitation of HD video is due to Smart device CPU performance and not from TVman.
- Smart Phone and tablet CPU can decode SD video (HD not supported on current devices)
  - Computer and MAC CPU can decode SD & HD video

#### **11) Can TVman Player decode H264 format?**

Yes, TVman player can decode MPEG2, MPEG4 and H264 format.

#### **12) What is the video format of TVman recording?**

TVman do not change the video format of the broadcast before transferring to WiFi or recording. The video format will therefore depend on your local broadcast.

#### **13) Can I schedule a recording to happen when I will not be at home?**

Yes, after the recording schedule has been defined by end user, TVman is totally independent from your smart device. It will check the date, time and switch to the corresponding channel to start the recording while you are not at home.

#### **14) What are the advantages to record on TVman memory and not on Smart device memory?**

- Smart device memory is limited and costly. DVB-T recording is using lot of space (1hour>1GB)
- TVman is totally independent from your Smart device to schedule a recording when you are not at home.



- TVman can share the recorded file in your home network
- The recording quality will not be dependent of your Wi-Fi environment.

**15) Can I play the Video recorded by TVman with another player?**

Yes, the format of the video recorded by TVman stays the same as the local broadcasts which are usually standard format and can be played with multimedia player like VLC.

**16) Can I play a recorded file from another Smart device?**

Yes, the recorded file is stored in TVman and can be played by any smart devices connected.  
For example: HD recording can be scheduled from your phone and watch later from your PC.

**17) Can I still access internet while watching Live TV from TVman.**

- Hotspot mode:** When connecting your mobile device to TVman WiFi in hotspot, it will not be connected to your home WLAN anymore. Internet access will only be possible if you have a 3G/LTE data plan.
- WLAN mode:** Use TVman in WLAN mode so your mobile device will be connected to your home WLAN with access to TVman Live TV and Internet through your router.

**18) Can I still receive phone call while watching TV on TVman?**

Yes.

## VIII. Revision history

Date	Version	Changes
10 August 2012	V1.0	First release
03 December 2013	V1.1	Add troubleshooting description
22 October 2013	V2.0	Add troubleshooting helps

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