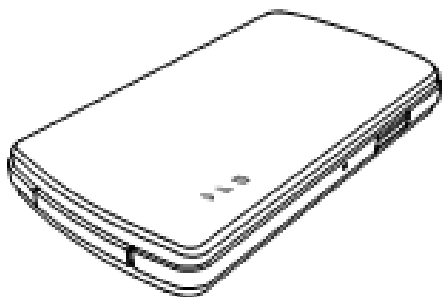# VTV-A10 User's Manual

Thank you for purchasing VTV-A10. The VTV-A10 User's Manual provides information on how to use the product, as well as precautions for use. Please do not use the device until you have thoroughly read the manual. Keep this manual in a place where you can find it easily.

- "Wi-Fi" is a registered certification mark of Wi-Fi Alliance.
- "Apple," the Apple logo, and "iTunes" are trademarks of Apple Inc., registered in the U.S. and other countries.
- iPhone is a trademark of Apple Inc.
- Use of the iPhone trademark is governed by the license policy of Apple Inc.
- The iPhone may be configured to be used only through a specific communications service provider.
- T1000's name and logo are trademarks of Valups Corp.
- Various marks such as ™, ©, and ® are used in this manual.
- Specification, design and composition shown in the manual may change in part or whole without prior notice in order to improve the product's functionalities, and as such there may be difference between the contents of the manual and the actual product.
- This User's Manual belongs to Valups Corp. Copying, reproducing, or changing this manual, in part or in whole, is prohibited without the prior permission of Valups Corp.
- Please visit "www.valups.com/eng.htm" to view the list of smart phones usable with this product.

※ The meaning of the marks used in this manual are as follows:

⚠ Note	If a user does not follow this direction, it may cause damage to the product.
✓ Reference	This should be referred to when a user uses the product.

Features

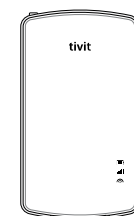### Watch ATSC-M/H Broadcast on Smart Phones
It plays the role of a tuner that can receive the ATSC-M/H broadcasting channels. you can watch ATSC-M/H channels with a smart phone.

Providing EPG Info
It provides ATSC-M/H channel list that is currently available and also provides detail information of TV programs.

Package Contents

The whole product package consists of the following items.
Please check whether any item is missing after opening the package.
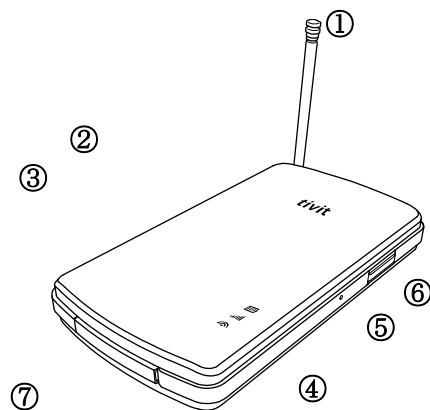
Valups's body (Battery included)   USB cable   User's manual

✓ **When using the product for the first time** when you purchase the product, please recharge battery completely. **Also when the product has been left unused for a long time, you should recharge the battery first.**

Terms and Functions of Each Parts

① Antenna
An antenna for receiving ATSC-M/H broadcasting signal. Please pull out the antenna to its maximum length if the signal is weak.

② ▥ Power & Battery LED Indicator
It indicates remaining battery power status when the device is in use and indicates whether the battery is recharging correctly or not.

③ ▥ Status LED Indicator
It shows whether VTV-A10 successfully catch available ATSC-M/H channel information and the receiving sensivalupsy for ATSC-M/H signal.

④ ▥ Wi-Fi LED Indicator
Indicates the connection status with Smart phone through Wi-Fi and also show data transmission status between two devices.

⑤ Reset Hole
You can press into this hole with a pin to reset the product if there is any problem. Press the power button and immediately press the reset hole with a pin while holding the power button, then VTV-A10 will turn off and turn on again. After booting up, finally VTV-A10 will be initialized to its original state when you purchased.
(*) Please do not operate this function when the power & battery indicator LED is blinking.

⑥ Power Button
Turns VTV-A10 on/off. Press to power on and hold for 3 seconds to power off.

✓ The video playback may not be smooth depending on the performance of smart phones or Wi-Fi communication environment.

Guides for the LED Indicators

You can check the ATSC-M/H signal reception status and operation status with LED Indicators, of which colors change in each situation as follows:

■ Power & Battery LED Indicator (at the Top Place)

Status	Details
Off	VTV-A10's power is off.
Red/Green (On)	When VTV-A10 is recharged from USB power adaptor or USB ports in PC, the LED turns into solid red, and finally turns into solid green if the recharge completes.
Red/Orange/ Green (On)	Once VTV-A10 is on, the LED indicator is blinking in 3 seconds to show remaining battery power status. Red blinking is 30% or less, orange blinking is between 30 ~ 70%, and Green blinking is 70% or above.

■ Status LED Indicator (at the Center)

Status	Details
Off	VTV-A10's power is off.
Green (Fast Blinking)	It indicates the VTV-A10 is turning (booting-up) on. It takes about 20 sec to complete boot up procedure.
Green (Slow Blinking)	Now searching for available ATSC-M/H broadcasting frequency.
Green (Solid On)	Channel searching was succeeded and ready to watch ATSC-M/H broadcast.
Orange (On)	Failed to search for ATSC-M/H Broadcasting frequency or channels.
Red (On)	VTV-A10 is not operating in a normal manner. Press the Reset Hole on the side with a pin to reboot.

■ Wi-Fi LED Indicator (at the Bottom)

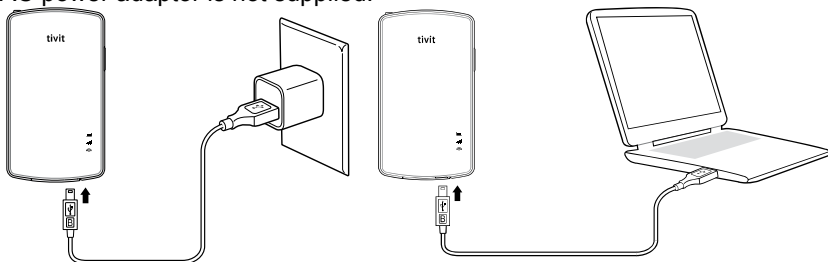| Status	Details
Off	Wi-Fi is not in normal operation. Or VTV-A10 is connected with PC through an USB cable.
Green (On)	VTV-A10 is ready to transmit data to a smart phone over Wi-Fi connection.
Green (Flickering)	VTV-A10 is transmitting data to a smart phone over Wi-Fi.

Before Using the Product

This product carries built-in removable lithium ion battery. **When using it first** right after opening the case**, please recharge the battery completely**
You can recharge the battery by connecting the USB mini B port of the product to USB power adaptor or USB ports in PC with the USB cable included. The USB cable used only charging. Does not transfer data. AC power adaptor is not supplied.

When recharging with
AC power adaptor

When recharging with
USB ports in PC

*During the recharge, the power & battery LED Indicator turns Red, and Green upon its completion. It takes around 180 minutes (on the basis of a new battery) to recharge the battery to its full capacity based on DC 5V 500mA. **※1**

✓ **※1**: The recharging time is just a anticipation, and battery recharging time and consumption may vary depending on the charge status and using environment.

✓ Turning on the power while the battery is being recharged shall make the recharging time longer.

✓ When recharging the VTV-A10 by connecting it to USB ports, you can't play the ATSC-M/H broadcast on the smart phone because the Wi-Fi connection will be disabled automatically (However, you can watch ATSC-M/H broadcast when recharging it with the USB power adaptor).

Watch ATSC-M/H Broadcast with iPhone/iPod Touch

■ Installing the VTV-A10 Mobile TV Viewer Application
① After accessing to AppStore at iPhone, search the application with a keyword, "Valups Mobile TV Viewer for ATSC-M/H" and download it.
② Upon the completion of the application download, an icon appears on the iPhone/iPod Touch as the following.

■ Activating the VTV-A10 Mobile TV Viewer Application
① Press the power button of VTV-A10 on. The booting takes about 20 sec. Please check if the status LED Indicator is on to solid green. **※1**
② Select the [Settings] menu in iPhone to enter [Wi-Fi] menu and check if Wi-Fi setting is [ON].
③ Clink the Mobile TV viewer application in the home of iPhone. After a moment, the currently available ATSC-M/H channel lists will be displayed.
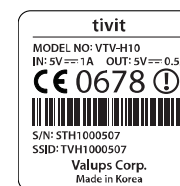
✓ **※1**: In the Initial running of VTV-A10 after the purchase, it may take approx 3 min for searching the frequencies and broadcast channels.

⚠ When recharging the VTV-A10 by connecting it to USB ports of PC, you can't watch the TV program in iPhone since the Wi-Fi function will be disabled automatically. If you still want to watch TV in iPhone while recharging it via USB ports of your PC, you should set the configuration in [Settings]-[USB Mode] to [Off] of the client application in iPhone.

✓ When iPhone try to set up a connection with the VTV-A10, it will display all available SSIDs of the surrounding Wi-Fi networks. Check the SSID of your VTV-A10 marked on the rear side label to select correct SSID of your VTV-A10 and press the [Done] button. Once you set-up a connection first time, just click the client application later, then it automatically connect to the VTV-A10 previously connected and you don't need to set-up a SSID connection again.

If the iPhone and VTV-A10 are not connected, there appears a warning display as shown on the right. In this case, you should check whether the Valups is power-on or Wi-Fi setting of iPhone. Thereafter, check the settings of VTV-A10 according to instructions appearing on the display.

■ Watch ATSC-M/H Broadcast

① Activate (Click) "VTV-A10 Mobile TV Viewer" application in iPhone.

② A moment later, a list of currently available ATSC-M/H channel lists are displayed.

③ Select a desired channel from the list and iPhone displays the broadcasting picture. It may take some time before the picture is displayed.

④ The channel list includes the icons and names for each channel, names of each show and CAS icons. Appearance of CAS icons varies depending on whether the user has subscribed to or purchased the service or not.

⑤ The channels without any CAS icons or with a [◆] icon are available to watch.

⑥ Tapping ◎ button in the channel list will display detail program schedule of that channel.

⑦ Use the volume control button on the left side of iPhone to control the sound volume while watching.

⑧ You can change the channel while watching a program. First touch the screen of iPhone and using [▼], [▲] buttons on the center of the display to change channels.

⑨ Touching the display while watching will make [Done] screen button appear on the upper section of the display. Touching this button will bring you to the channel list display.

When the client application is terminated, the Wi-Fi configuration of iPhone is still set as being connected with the VTV-A10 so sometimes connecting the Internet from iPhone may not work.

The list of broadcasting channels may vary for each different broadcasting operator. If you want to receive a ATSC-M/H channel provided by other operator, you should tap the [Rescan Channels] button in the channel list to search the channel again. This process may take approx 3 min since all frequencies and broadcast channels are retrieved again.

Changing the Settings of VTV-A10

Details about changing the settings of VTV-A10 are as follows;

■ **Device SSID**: When released from the factory, the SSID for VTV-A10 is marked in the label on the rear of the body. When changing the SSID, you should fill in only the combination of lower case alphabet letters and numbers. After changing the SSID you need to register the new SSID for VTV-A10 at Wi-Fi menu in the smart phone.

■ **Password:** When first released out from the factory, there is no password set and the user can determine it as he or she wishes. The password must be a combination of only the lower case/capital alphabet letters and numbers. After setting the password, you need to register and select again a SSID for VTV-A10 at Wi-Fi menu in the smart phone.

■ **Auto Power Off:** With the VTV-A10 on and if it does not work in any way in a time set – selectable among 1m/5m/30m/60m/Never - the power is automatically turned off. If it is set to [Never], please note that the power does not automatically go off but the batteries can be unnecessarily consumed. However, with the Auto Power OFF setting is on, the power does not go off it the VTV-A10 is being recharged.

If you not familiar with Wi-Fi network, do not change the SSID and Password settings. A misguided changing of the settings may lead to a failure in accessing the VTV-A10 from the smart phone. If accidentally changed, the settings can be restored through the 'Initializing to Factory Settings' function.

The specifications or interfaces of an application can be modified without notice. For details about firmware or software, and User's Manual, please refer to our Customer Supporting website.

Trouble Shooting (Q&A)

Q1) As I activated the client application, I see a message, "Unable to Connect Device".

① **The power of** VTV-A10**:** Check if the power of VTV-A10 is on.

② **When using iPhone/iPod Touch:** Check if [Wi-Fi] in [Settings] is set to [ON] at iPhone, as well as whether a correct SSID for VTV-A10 is selected from the network list. The SSID for VTV-A10 is provided in the label on the rear of the body.

③ **Resetting the** VTV-A10**:** Pressing the Reset Switch with a pin resets the system. (The settings are saved)

④ **When connecting the** VTV-A10 **with other smart phone:** VTV-A10 matches a smart phone, on 1:1 basis. You will get an error message if you try to activated an application at a smart phone other than those previously connected to the VTV-A10. If you want to connect the VTV-A10 to other smart phone, please initialize the VTV-A10 to factory settings as described in ⑤and try it again.

⑤ **Initializing the** VTV-A10 **to factory settings:** If the same problem continues even after checking the power and SSID, please initialize the VTV-A10 to factory settings. If you press the power button and immediately press the reset hole with a pin while holding the power button, the power turns off and on, and the VTV-A10 returns to its initial settings at the time of purchase. The initializing process turns all settings including SSID back to their initial states. Note that you should perform this only when the Power & Battery LED indicator is on in green (not flickering).

Q2) When watching a channel, I often find the picture broken and the sound not so good.

① Make sure that the ATSC-M/H receiving antenna is pulled out in its full length when watching a ATSC-M/H channel, to get enough TV signals.

② Please try to move to a location that can provide a good signal receiving.

Default Spec of Valups

Product Name	VTV-A10	
ATSC-M/H Receiving Module	Broadcasting Standards	ATSC-M/H
	Bandwidth	VHF (high 175 - 216MHz)
		UHF (470 - 806MHz)
	Antenna	Rod-type antenna Full length - 11.5cm
Wi-Fi Module	Radio Standards	IEEE 802.11b/g
	Antenna	Internal antenna
USB	Port	USB mini B type port 1 set (for charging connecting to PC)
Battery	Removable lithium ion battery (3.7V 1050mAh)	
Input Voltage	DC 5V (supplied through a USB cable)	
Power Consumption	Use	Less than 1W
	Power OFF	Less than 10mW
Charging Current/ Recharging Time	DC5V 500mA / Approx 180min.	
Functional Temp	0 – 35 ℃	
Dimension	52x92x12mm(WxHxD) (protruded parts excluded, when the antenna is not pulled out)	
Weight	Approx 70g (ancillary parts not included)	

FCC RF INTERFERENCE STATEMENT

NOTE :

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the
  receiver is connected.
- Consult the dealer or an experienced radio, TV technical for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment

! RF exposure warning

The device be used at least 20 cm from the user and that it may not be co-located or operating in conjunction with other transmitters.