



2.4G
Wireless XGA TV Box
TV5600
User's Manual



2. PIP part

Failure	Cause and action
After PIP turned on, sound is normal but no picture display.	Check if the output mode of display card in PC is standard (see section 3).
PIP invalid	Check if there is PC signal input.

3. PIP can function normally at the following PC display modes

Resolution	Refresh Rate	
1440×900	60Hz	
800×600	60Hz	75Hz
1024×768	60Hz	75Hz
1280×1024	60Hz	

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5. Troubleshooting

1. TV part:

Failure	Cause and action
No picture, no sound	No power connection or defective connection of plug. Receiver is at standby mode.
Picture displayed without sound	Speaker for multimedia is not connected properly. Volume is not turned on. Click Volume+ button.
No color	Chroma is not turned on. Adjust chroma option under PICTURE menu. Program is of black and white color. Picture system is set wrongly. Set picture system correctly under PICTURE menu.
Normal sound but no picture	Monitor is not connected well. Too strong interference in TV signal leads to protection state of monitor.
No picture or abnormal color of picture from PC	Check if VGA cable is connected well and if PC runs normally.
Remote control can't be operated or has low sensitivity	Check if batteries are installed correctly. Batteries are of weak power, or signal from remote control is obstructed or disturbed.
Snow spots or oblique line, vertical line in picture	Signal from antenna is too weak. Add antenna amplifier. Defective connection of antenna or the wire in antenna cable is breaking off. Failure of TV station.
Picture Interference	Change transmitting channel of receiver, please refer to channel switching instruction. Or please adjust the placement of transmitter and receiver; please refer to connection and installation.

FCC Notification:

This device complies with Part 15 of the FCC Rules. operation is subject to the following two conditions:

- 1 This device may not cause harmful interference, and
- 2 This device must accept any interference received, including interference that may cause undesired operation.

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

4. Infrared Remote Feedback

When emitting source came from set-top box (STB), DVD player, video camera with remote function, remoter come with these equipments can be used directly on the receiver, while you don't have to operate the remote control of the AV equipments.

Step one:

Refer to connecting installation picture, connect transmitter, and confirm there are no barriers between transmitter's infrared window and infrared receiving window of program source, with the angle between them ranges from 30° to 40°.

Step two:

Point remote control of program source to receiver TRV5600, then you can control program sourced from the transmitting terminal TXV2408.

Tips:

Please pull 433 MHz antenna of transmitter and receiver as straight as possible, and keep it far away from AV cables to ensure no interference to signal transmission. In case of infrared remote malfunction, please check antenna's placement on condition that there is no placement problem with the transceiver.



Operation instruction of remote feedback

1. Introduction

TV5600 is wireless version of XGA TV Box. It adopts advanced 2.4G wireless technology and has realized wireless transmission of CATV & AV signal within the scope of a family and etc. It has strong anti-interference ability and mobility and can avoid the troubles brought by cable connection.

The receiver of TV 5600 adopts professional DPTV chipset, which incorporated with image improving technologies such as black level stretch, video noise suppression and motion compensation, it delivers clearer and sharper picture and makes color with stronger stereoscopic impression. In addition, its special frequency scanning technology can enhance the original refresh rate from 50Hz to 60Hz or 75 Hz (optional), which can effectively solve flashing and interline flicker problem arising from low refresh rate of common TV (only 50Hz), and thus improve image stability. It can eliminate visual fatigue resulted from watching TV and reduce chances of short-sight from watching TV for long time. It supports multiple resolution output such as 800*600, 1024*768, 1280*1024, 1440*900, 1680*1050, which can be fully compatible with 4:3 as well as wide screen LCD monitor.

The receiver of TV 5600 is facilitated with PIP function in PC mode, which enables you to use computers and enjoy wonderful TV programs at the same time. In addition, it also has multi-channel preview function, through which you can browse programs in each channel without changing the TV channel.

The receiver of TV 5600 is facilitated with 3D noise suppression function, making image more subtle, clear and stable.

1.1 Functions and Features

1. There are 4 channels, and the frequency scope ranges from 2.400GHz to 2.483GHz;
2. In order to increase the flexibility and reliability, we prepare four selectable channels (2.414GHz, 2.432GHz, 2.450GHz, 2.468GHz);
3. 2.4 GHz wireless transmitter and receiver with 4 selectable channels (Tact Switch)
4. 433MHz infrared remote feedback transmission, fully compatible with remoter as DVD player/ digital set-top box/satellite receiver;
5. High-power infrared emission, no need to add infrared emission extension cord;
6. Support NTSC/PAL video system and stereo audio transmission;
7. Advanced frequency scanning technology, refresh rate can be 60Hz or 75Hz, image has no flicking;
8. Multiple resolution selection (800*600/...../1680*1050), fully compatible with CRT monitor and 4:3 or wide screen LCD display;
9. 3D image noise suppression function, making image clearer and more stable;
10. Unique PIP function, adjustable window size and position;
11. Full function remote control and 3D effects English menu display, easy operation;
12. AV/S-VIDEO/YPbPr input interface can be extended through MMI cable, which can be connected to equipments such as DVD player/PS2/Game box and support standard definition (SD) and high-definition (HD) signal input (480I/480P/576I/576P/720P/1080I).

1.2 Application

- TV / AV wireless transmission, used in conjunction with LCD monitor to realize wireless sharing of AV equipments such as DVD player/digital set-top box(STB)
- Video conference system in large conference room, and multimedia room teaching
- Can be used in security systems, real-time on-spot image wireless monitoring

3.2.5 Game Function

- a. To enter into game: Enter into the menu and select Game under the Auxiliary menu.
- b. Gaming method: Box, Destination, Wall. Pull every box through up, down, left and right movement. If all boxes are pulled to the destination, you pass the barrier.
- c. Description of function buttons:

Program +	Up movement
Program -	Down movement
Volume +	Left movement
Volume -	Right movement
Menu button	Exit from game

3.2.3 Program Searching

- Connect the antenna plug of CATV or antenna TV to the ANT IN port of TXV2408.
- Note: Please make sure that you have set transmitter and receiver in proper mode by previous instructions. For example: when indicator of transmitter's TV and CH1 lights, receiver must be adjusted to set source input in "FUNCTION" menu to "TV" and set "2.4G CH" to "1".
- Enter into tuning menu. Click VOL+ to enter into tuning menu. Select Auto and click VOL+ to start auto searching. If the first auto searching is failed, please adjust 433MHz antenna and try again.
- If the noise level is too high at a certain channel and you do not want to keep it, you can enter into TV Tuning menu to select CH. Skip. After setting, the channel will be deleted.
- You can use CH. Swap option in TV Tuning menu to conduct ordering for TV programs. For example, CCTV-1 and CCTV-2 are now located in channel 8 and channel 12 respectively and you want to arrange them in channel 1 and channel 2 respectively, you can conduct the following operations: select CCTV-1, enter into TV Tuning menu, select CH swap option, change the channel number from 8 to 1, and then click Menu button. Similarly, you can change over CCTV-2 from channel 12 to channel 2.

3.2.4 PIP Function in PC mode

- At TV or PC mode, click PIP button on remote control and wait for 1-2 seconds, there will be a small window in the upper left corner of screen and the sound is also changed over. You can click PIP button again to change over the window to larger one. Click PIP button for the third time, the window is changed over to small. For fourth click, PIP is cancelled.
- The adjustment of the position of PIP can be realized through the Still Picture and Picture Mode buttons on remote control.
- In addition, at PIP mode, you can use Video button for the changeover to TV/Video 1/ Video2 or S-video mode.

1.3 Technical specifications

- Technical specification for transmitter TXV2408:
 1. Power input: DC 5V == 300mA
 2. Radio-frequency input: 47 ~ 870MHz
 3. Video Input: 1Vp-p (PAL/NTSC)
 4. Audio input: <1.5Vp-p(dual track)
- Technical specification for receiver TRV5600:
 1. Power input: DC 5V == 800mA
 2. Video input: 1Vp-p (PAL/NTSC)
Video output: 1Vp-p (PAL/NTSC)
 3. Supporting resolution: 800*600/ 1024*768/1280*1024/1440*900/ 1680*1050
 4. Output frequency: Horizontal frequency 37KHz ~ 64KHz
Field frequency 60/75 Hz (refresh rate)

1.4 Standard Accessories

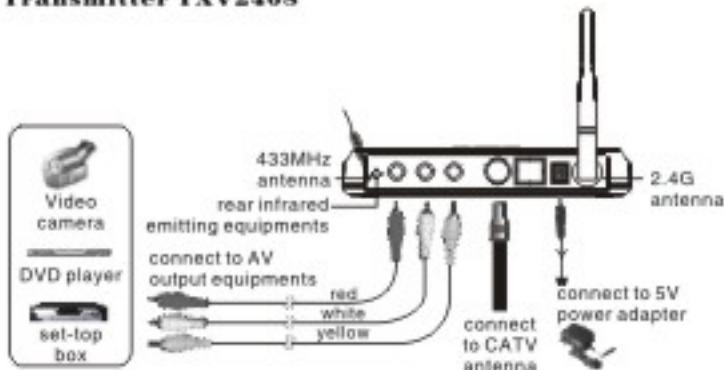
User's Manual-----	1PCS
Power adapter-----	2PCS
Remote control-----	1PCS
Stereo audio cable-----	1PCS
VGA cable-----	1PCS
AV cable-----	1PCS
MMI cable-----	1PCS

1.5 Optional Accessories

MMI video input cable (DIN 200N)
MMI S video input cable (DIN200S)
MMI YPbPr input cable (DIN 201V)
MMI video input cable (DIN 200T)
VGA to YUV input cable

2. Connection and Installation

2.1 Interface and Installation of Transmitter TXV2408



2.2 Placement of Transmitter

For normal transmission of infrared signal, please place transmitter (TXV2408) in following two ways.

Transmitter TXV2408 remote window instruction



A Usage of infrared emitting equipment at the front of transmitter:
Place the transmitter (TXV2408) on top of AV equipments and keep a distance of 2-3cm between the edge of transmitter and the edge of AV equipments as the picture2. Point it to the infrared receiving window of AV equipments.

Menu six: Tuning



- ▶ **AREA:** Region including the options of Common.
- ▶ **CHANNEL:** Used for the display of present channel number.
- ▶ **AUTO:** After this option is selected, click VOL+ for auto searching.
- ▶ **MANUAL:** After this option is selected, press VOL+ or VOL- for manual searching.
- ▶ **FINE:** After this option is selected, click VOL+ or VOL- for fine adjustment of frequency.

Menu eight: Timer



- ▶ **OFF. TIME:** Used to set the time for shutdown. It shall be changed to 'on'.
- ▶ **ON. TIME:** Used to set the time for startup. It shall be changed to 'on'.
- ▶ **AVAILABLE:** Used to set the valid time of your setting as once or every day.
- ▶ **ON. STATE:** Used to set the mode for each startup, which can be set as video1/video2, S-video and TV.

Menu eight: OSD



- ▶ **LANGUAGE:** English.
- ▶ **STYLE:** Used to set the style of menu as per your liking, including three options, classic, modern and romantic.
- ▶ **HORIZONTAL:** Used to adjust the position of menu on screen in left or right direction.
- ▶ **OSD. TIME:** Used to adjust the display time of menu on screen.

Menu three: Display.set

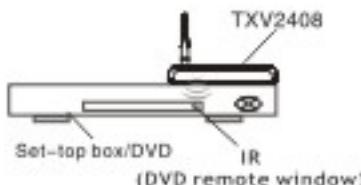

- ▶ **OUT. FT:** Adjust output mode to change resolution and refresh rate.
- ▶ **PIC. RATIO:** Change aspect ratio between 4:3 and 16:9.

Menu four: Accessort

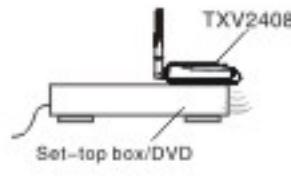

- ▶ **CALENDAR:** Calendar can display year/month/day and week; use "P+/"P-" and "VOL+/"VOL-" to adjust year and month.
- ▶ **CACULATOR:** Calculator offers simple calculation function.
- ▶ **GAME:** Refer to chapter 3.2.5 for the instruction of game function.
- ▶ **INFO:** Information option is used to check machine's model No., software/hardware version and date.

Menu five: Tuning


- ▶ **CHANNEL:** Channel is to display current channel number and channel skip is to delete the channel with no signal or bad signal.
- ▶ **CH. SWAP:** Channel swap is to edit the order of your favorite programs.
- ▶ **SOUND. SYS:** Sound system can be selected as B/G and I. wrong selection can result in noise or no sound.
- ▶ **TUNE:** Tune is to search for programs, please refer to menu six.



Picture 1



Picture 2

Tips:

There are words like "infrared remote control" or "IR" on the infrared remote receiving window of set-top box (STB) or DVD player, please point transmitter's infrared emitting window to it.

- ② Usage of infrared emitting equipment at the back of transmitter: and point the infrared emitting window on the back of the transmitter to the infrared receiving window of AV equipments. Make sure there are no barriers between them.



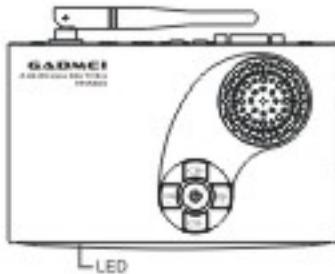
Picture 3

Tips:

To ensure optimal effects, this positioning method is recommended when condition allows.

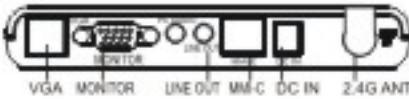
2.3 Interface and Buttons Instructions of Receiver TRV5600

Front panel instruction



- "S": Power on/standby mode switching button: it is PC/TV switching button.
- CH+/CH-: Increase or decrease program No..
- VOL+/VOL-: Increase or decrease volume.
- LED light: Highlight represents TV or PIP mode.

Rear panel instruction



DC IN: Power input port (please use DC5V power adapter supplied with the device).

2.4G ANT: 2.4G antenna (vertical placement in normal use)

LINE OUT: Audio output port, which can be connected to audio input ports of sound box and power amplifier equipments.

PC AUDIO: audio input port, connect the stereo audio cable supplied with the device to sound card output port of the computer.

MMIC: for connection of MMI cable supplied with this device (yellow port for video input; white & red port for audio input).

MONITOR: connecting to monitor.

VGA: connect 15 pin terminal to the computer's display card output, while connect other terminal to this device.

2.4 Placement of Receiver

Please place the receiver beside the CRT or LCD monitor, and finish connection according to the following illustration.

3.2.2 Menu display

Menu one: Picture



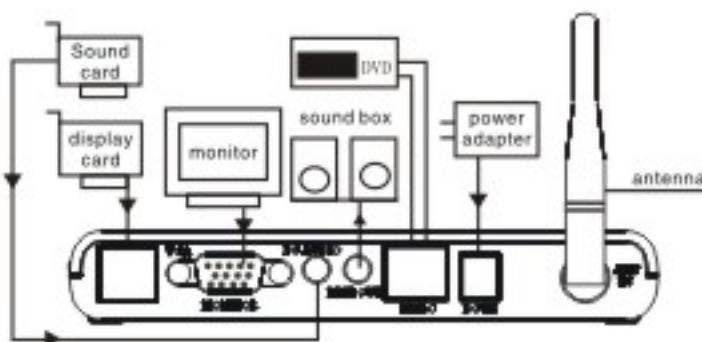
- ▶ **CONTRAST/BRIGHT/COLOR/SHARPNESS:** can be adjusted between 0-100 (note: hue option can only display when video input is NTSC mode.)
- ▶ **NOISE. REDUCE:** Noise reduction can be ON and OFF. Turning it on will reduce noise waving points on picture.
- ▶ **VIDEO. SYS:** There are Auto/PAL/N3.58/N4.43 selections of picture system.

Menu two: Function



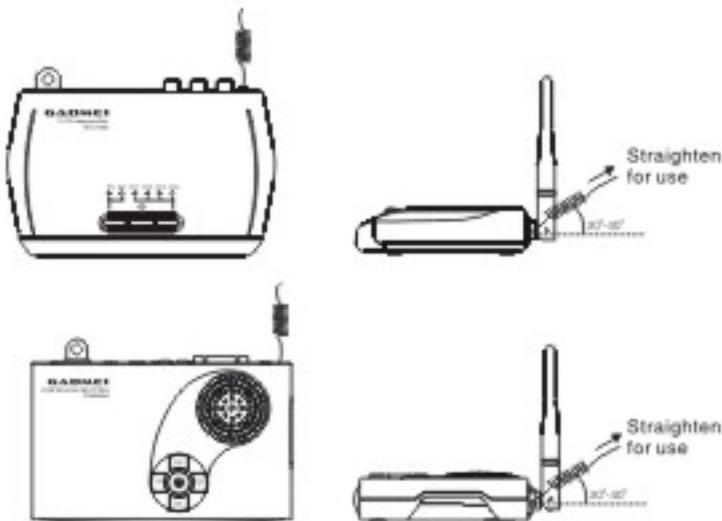
- ▶ **SOURCE:** Adjust input source among TV/AV1/AV2/S-VIDEO/YPbPr. (note: AV1 is for switching to transmitter TXV2408's AV input, AV2 is for switching to receiver TRV 5600's AV input).
- ▶ **2.4G CH:** 2.4G receiver's channel can be adjusted. Only when channel selected for receiver matches transmitter's emitting channel can signal be transmitted normally.
- ▶ **SCREEN:** Adjust blue screen on/off to turn on or off blue background when there is no signal.
- ▶ **PIC. DIVIDE:** PIC.divide can set preview channels to be 9 or 16..
- ▶ **DISPLAY. SET:** Please refer to menu three.
- ▶ **ACCESSORY:** Accessory option has four suboptions: please refer to menu four.

3. 0-9, -/-: Channel No. selection key.
4. **Return key**: press this key to return to last watched program.
5. **Timing key**: When press it repeatedly, the timing of 15-180 minutes for shutdown and "off" will be displayed on the screen in turn. If you set the time for shutdown, the product will automatically be powered off when the set time is over.
6. **Display**: press it to display current program number.
7. **Video**: press it repeatedly to switch among TV/ Video/S Video/YPbPr mode in turn.
8. **Mode**: press it to switch among four picture modes: "bright, standard, soft, standard". It is used for right moving of the window in PIP of PC mode.
9. **Menu**: used to enter into and exit from menu.
10. **Program + and program -**: these two buttons can increase or decrease change program number. It can also be used for right moving of the window in PIP of PC mode.
11. **Volume + and volume -**: used to adjust volume as well as used for menu adjusting.
12. **NICAM**: when watching bilingual or stereo programs, press it to switch among channel A, Channel B, Single track and stereo.
(Note: valid only when this function is customized)
13. **Still image**: can be used to make the image from TV or video to be still. It can also be used for left moving of the window in PIP of PC mode.
14. **Output mode**: adjust output image's resolution and refresh rate
(note: this function can be realized by continuously pressing; or pressing this key first, then select P+ and P-, and pressing VOL+ to confirm.)
15. **TV wall**: used to multi-channel preview.
16. **Aspect ratio**: used to adjust picture's aspect ratio, which can be switched between 4:3 and 16:9.
17. **PIP**: press it to enter into PIP function of PC mode.
18. **Factory setting**: press it to resume factory default setting (note: if no display on the monitor arising from clients' false operation, press it for a long time to resume factory default setting.)
19. **HD**: switch between VGA/HD output (this function needs to be customized.)



2.5 Placement of antenna

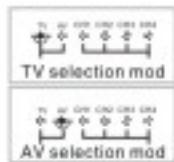
Please pay attention to the placement of 433MHz antenna, ensuring there is no barriers around it. The barrier of metal will bring very bad influence to the infrared signal. Please straighten the antenna and place it according to following ways:



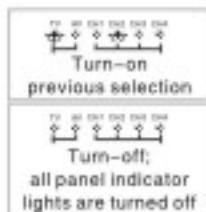
3. Operation Instruction

3.1 Transmitter

1. Source selection of TV/AV input: TV or AV signal can be switched freely. The signal can only be normally transmitted when transmitter's input source and receiver's "signal source input" option are in match (please refer to 3.2.2 menu two for "signal source input" selection).

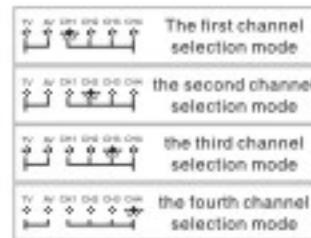


2. Power switch : Switch on or cut off power supply of 2.4GHz transmission. The panel indicator light of switch flash as follows;



3. 2.4G transmission channel selection: 4 sets of 2.4GHz transmission channels can be switched freely. But only when the transmitter and receiver is in the same channel can video signals be transmitted normally. (Please refer to menu two of 3.2.2 for channel selection of receiver transmission).

For example: when selecting channel four for transmitter, the indicator of CH4 will light; open "FUNCTION" menu, then select "2.4G CH", switch to display "4". Only at this time do transmitter and receiver use the same channel.

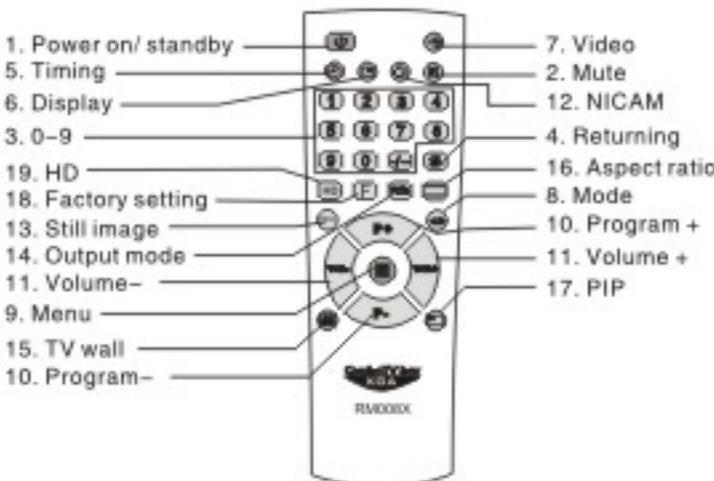


Note: * Please select Channel one or four to avoid signal interference by wireless local area network (LAN), when there is LAN (802.11 or WIFI) in your house.

* You can switch channels to avoid external interferences to TV programs.

3.2 Menu Display

3.2.1 Remote control



1. Power on/standby: Power on or standby key; standby is for PC mode.

2. Mute: press it to turn off volume, press again or volume +/ Volume - to restore volume.