

USER MANUAL
LCD TV BOX/PLAY VIDEO GAMES,CRT & TFT
Ver:C06048610

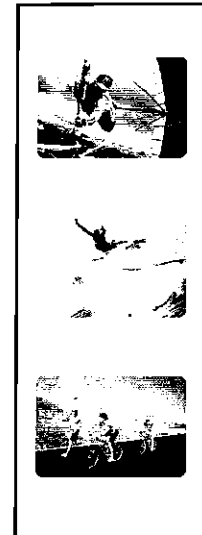
TUNER PTB500

FIREBIRD SYSTEMS INC

1-818-349-7999

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1280 x 1024



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It can support 8 kinds of resolution:

640x480x60Hz/75Hz, 800x600x60Hz/75Hz, 1024X768X
60Hz/75Hz, 1280X1024X60Hz/75Hz

- ◆ **With automatically detecting the signal functions, when all of TV, AV, S-VIDEO, VGA haven't the signal, it will automatically be shut in order to protect it;**
- ◆ Previewing all programs in 4,9 or 16 pictures
- ◆ Picture in picture function, displaying the picture of TV program on the status of PC;
- ◆ Full subjoining channel receiving, compatible with cable TV and wireless TV signal
- ◆ PAL D/K/L/BG/NTSC system of cable TV and wireless TV
- ◆ Support all systems of inputing video
- ◆ Full function remote controller operating, OSD displaying and very convenient.
- ◆ With VIDEO, S-VIDEO and multimedia interface,

able to connect with camera, VCD or TV game Player

1.2 Packing details:

- ◆ DM2105 PC Color TV Receiver 1 pcs
- ◆ DM2105 User' s manual 1 pcs
- ◆ Full function remote controller 1 pcs
- ◆ AAA1.5V battery 1 pair
- ◆ VGA cable 1 pcs
- ◆ Stereo audio cable 1 pcs
- ◆ S-video/complexed video switch cable
- ◆ Special power 1 pcs

1.3 Technical Specification

- ◆ Receivable Channel : DS1-57CH , Z1-38CH
(470MHz full subjoining TV channel) ;
- ◆ Pre-adjusting program memory: 125
- ◆ Frame Frequency: 60Hz/75Hz;
- ◆ Line Frequency: 31KHz-80KHz;
- ◆ Antenna: 75Ω unbalance mode;

Chapter 2 Hardware Installation and Description

2. Hardware Installation and Description

Turn off the computer when installing hardware. Turn on the computer after connecting every interface line. Please don't pull and plug every interface line when starting the LCD TV box, Other wise will possibly damage it.

The adapter should be installed at last, because the LCD TV box will be started when plug in the adapter.

When it is started for the first time, the content of TV Box is the default setting. Please adjust the set according to search the channel so you can get the best effect of TV picture.

2.1 Front key-press instruction

POWER (power key) : To select the PC status or TV status.

MENU (menu key) : Searching channel, adjusting voice and picture, setting system, slightly adjusting, leaping channel, swiftly searching channel, automatic searching channel, input signal swift, Chinese English switch and etc. (working with CH+/CH- key and VOL+/VOL- key)

CH+/CH- (channel up/down key): TV channel up/down key. (working with menu key and choose each item parameter)

VOL+/VOL- (volume up/down key): TV volume up/down key. (working with menu key and choose each item parameter)

AV/S (Video switch key): TV 、 VIDEO 、 S—VIDEO signal sources.

2.2 Interface Instruction

Rear interface:

DC-5V(power supply): Connecting with the plug of output of the adapter

VGA-OUT(display switch): Connecting with the monitor plug

VGA-IN(VGA input end): Connecting with VGA cable, the other end of VGA cable connecting with PC display.

AUDIO-OUT(Stereo audio cable input end): Connects with stereo audio cable input end of speaker(with amplifier).

VIDEO-OUT(Complexed video input end): TV signal output video input, may output TV signal to other machines with video input end.

VIDEO-IN (VIDEO input end): (Defaulted as S end input, also may change S end/ complexed video switch cable into complexed video input end.)Using video cable and connecting with video

devices such as: camera, VCD, DVD and etc.

ANTENNA(Antenna switch): Connecting with antenna

Side interface:

LINE-IN (PC audio cable input end) Using the stereo audio cable, connecting with the output end of the sound card

AUDIO-IN (stereo audio cable input end): Using stereo audio cable and connecting with DVD/VCD stereo output end, to realize stereo input function

Chapter 3 Remote Controller Instruction

3. Remote controller instruction

1) **POWER** (power key) : To select the PC status or TV status.

2) **Preview** (preview key): Select 4, 9, 16 picture to preview. Please refer to 4.4.5 previewing

operation with details.

- 3) **Mute** (mute key): Turn off TV voice when pushing this key and push again to renew TV voice
- 4) **AV/S** (video switch key): TV、VIDEO、S—VIDEO signal sources.
- 5) **Mode** (resolving power switch key): Choose the following resolution:
640X480X60Hz/75Hz , 800X600X60Hz/75Hz ,
1024X768X60Hz/75Hz, 1280X1024X60Hz/75Hz. Please refer to 4.4.3 operation guidance.
- 6) **CH+/-** (channel up/down key): the same function with push-key channel up and down key
- 7) **VOL+/-** (volume up/down key): the same function with push-key volume up and down key
- 8) **0-9** (Num key): press 0-9 Num key of remote controller to choose which channel you like
- 9) **PIP** (PIP key): PIP function operation. Please refer to 4.4.6 operation guidance

- 10) **-/--** (single/double key): choosing with single and double channel (working with Num key and using)
- 11) **recall** (recall key): recalling the last show TV program.
- 12) **PIC** (image key): press this key four times respectively. After appearing adjustable four images, press "VOL+/-" key to conduct.
(brightness): adjust the image brightness increase and decrease.
(contrast): adjust the image contrast
(chroma): adjust the chroma of image
(hue): adjust the hue of picture in NTSC system, without this option in PAL system.
- 13) **Menu** (menu key):
Sound and image: contains image adjusting option-
brightness-contrast-saturation-hue-acutance-
volume-mute-balance volume. When pressing
CH+ and adjusting needed position, pressing

VOL+/- and adjusting VOL+ and VOL-.

When pressing "image choosing option", pressing VOL+- and adjusting to "strengthen image quality", contains the color transient state response-reducing noise mode (close, low, middle, high)-demo mode(close, strengthen image quality, reduce voice mode)-strengthen image quality (close, open)-extending(close, open)- VGA OVERLAY (4, 9, 16) -image scanning mode (scanning 4,9,16 pictures)

Searching the channel: press VOL+, when scroll bar adjusted to search the channel, with channel Num, frequency section, leap (If opening the leaf key, the channel skips at CH+-,the channel program will be shown with pressing the channel), slightly adjusting, When the sound and image are abnormal, you can use VOL+- and slightly adjust in order to

reach the best effect. Swift search the channel and automatic search the channel (press "VOL+/- to search all channels")

Set: have PAL, NTSC, P60, SECAM, AUTO system, sound system(DK, I), blue screen(open, close), input resolving power(eight resolving powers in total), output alleyway(TV, C, S) state set (renew the set, all of previous set are reverted to preliminary default setting).

Menu: have many languages(Chinese English switch) horizontal level, vertical level(OSD display position motion), background color(seven for you to choose), curtain switch(open: OSD display aqueous curtain state), transparent coefficient(OSD display transparency have 0,1,2,3 degree state), showing time(OSD displays 5 seconds, 10seconds, 20seconds, constant showing)

Chapter 4 Operation Instruction

4. Operation instruction

4.1 Search the channel

Be sure that the connecting is right. Then plug into the adapter and put the battery into the remote controller. Press "menu" key and "VOL+" key and move to "Tune". Press "CH-" turn to "AUTO" and then "VOL+" to autoscan the channels. If you want to make it quick, please select the "QUICK" to autoscan the channels.

It needs some time to search the channels. After you finish searching the channels, it will automatic leap to the first channel . Please don' t cut the power or carry on other operations when searching the channel .

4.2 Choosing the channel/Mute

After you finish searching the channel, press "CH+/-" and choose the channel, press "VOL+/-" and adjust volume up /down. When you choose the channel you may directly press NUM 0-9 key on the remote controller and input the number of the channel you like. Press "VOL+" and the volume increases. Press "mute" key and the sound disappear. Press it again and renew the sound.

4.3 Choose resolution

About the display, you may choose the resolution as following:

640x480x60Hz/75Hz, 800x600x60Hz/75Hz, 1024X768X60Hz/75Hz, 1280X1024X60Hz/75Hz。

If your monitor supports high resolution, you may press "MODE" key to choose the different resolution. The highest resolution of this box can reach 1280x1024x75HZ. If you choose the resolution over the scope of your PC display to support, the

display can not show.

4.4 VCD or DVD input operation

- a. Put AUDIO IN cable , VIDEO-IN cable into AUDIO IN, VIDEO-IN interface with VCD or DVD
- b. Open VCD, DVD
- c. Press “AV/S” key on remote controller and then you can enjoy the programs of VCD or DVD player on your display.

4.5 Previewing operation

Preview (preview key)

- a. Press “menu” key → “PIC” → image preview mode;
- b. When you set 4 and press preview key, the images on the screen will preview with 4 pictures in turn;
- c. Repeat “a” operation and change “pic

scan mode” into 9 or 16. Press preview key and scan the images on the screen with 9 or 16 pictures in turn

- d. When the image shows the channel you want to, you may press PREVIEW key and watch.

4.6 Picture in picture operation

When the product is working on the state of TV, AV, S-VIDEO showing, please press PIP key and open PIP condition. The screen (or Video/S-Video input video picture) will show window mode.

PIP condition operating as following:

When the product is working on the state of TV, Video or S-Video, please press PIP key, the screen will show TV, Video or S-Video and PC picture simultaneously as follows.

Now it is working on the status of PIP

- a. Press the menu key and on the TV picture it emerges up/down/left/right arrowhead, then press

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“VOL+/VOL-” to move the TV picture to left or right, press “CH+/CH-” key up or down

b. When PIP, the picture size is set within OVERLAY (4,9,16). If chosen 4, the picture size is 1/4 of screen. If chosen 16, the picture size is 1/16 of screen.

c. Press MENU again, VOL+/VOL- and CH+/CH- recover to the normal condition.

d. Press PIP key and exit the PIP picture;

Notice: In order to attain the best effect of PIP, please set the resolution of PC and refurbish frequency accordant with the TV BOX.