Meicheng®

CPT-1370
PC to Video Overlay

Operation Manual

CPT-1370

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1. Introduction

The PC to Video overlay system is designed to overlay PC/Graphics onto Video signal and also can convert a variety VGA sources to Video signal. It is ideal for using in applications like video conference, home theater, business presentation and lecturing room.

2. Features

- Superimpose PC text and graphics onto another video signal.
- Support VGA to Video conversion.
  VGA: 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200
  Video: NTSC, NTSC4.43, PAL, PAL-M, PAL-N or SECAM
- Support Zoom and Pan functions.
- Support vertical and horizontal overscan/underscan control.
- Automatically support frame rate conversion from 60Hz up to 85Hz.
- Cross-platform compatibility for PC, Macintosh and Note book.
- Plug-and-Play design, no software driver required.
- Simultaneously display on the PC and TV monitor.
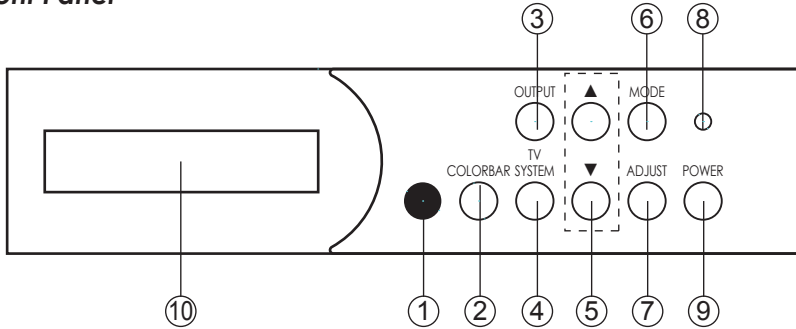- Can adjust from front panel or remote control.

note: • The system did not support video format conversion, For example, NTSC in NTSC out, PAL in PAL out or SECAM in SECAM out.
- • When Video and S-Video input at the same time. the S-Video is the first Priority for the Source output.
- • In Ovrlay mode. suggest the user to preserve the Contrast / Brightness / Color / Tint in default value.
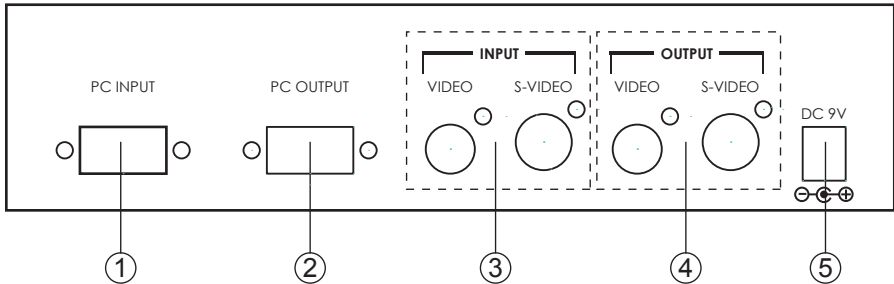
3. *Operation Controls and Functions*

The following sections describe the hardware components of the unit.

3.1 Front Panel

①   IR sender.

②   Colorbar: The color bar test pattern can test each key function.

③   Output: Press to select output mode.

④   TV system: Press to select video output system.

⑤   ▲ and ▼: Press to toggle through various control or setting values.

⑥   Mode: Press the button continuously to toggle through the following selection:
Press "MODE" button to select each item.
Press ▲ and ▼ to select sub-item.
Output mode: Overlay, Video input, Mixer, PC input.
TV system: NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM.
Overlay mode: Blue key, Green Key, Red key, Black key.
PC Zoom: Off, Position1 to Position 9.

⑦   Adjust: Press the button continuously to toggle through picture selection mode.
There are Contrast, Bright, Color, Hue, Detail, Flick, H size, V size, H Position, V
Position, Phase and Level. Each level is from 0 to 63 and the factory defaults
value is 31 excepted Contrast and Detail values. The Contrast factory default
value is 58 and Detail factory default value is 10.
Press "ADJUST" button to select each items.
Press ▲ and ▼ to adjust each item levels.
[Note]: Above functions are only works for PC input.

⑧   Power: Press to power on the system and press again to turn off.

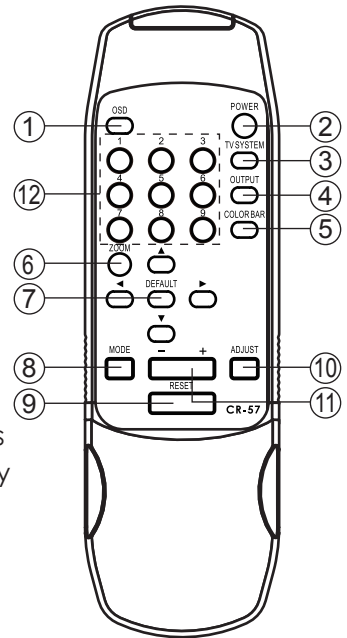⑨   Power LED indicator: The LED will illuminate when power on.

⑩   LCD display.

3.2 Rear Panel
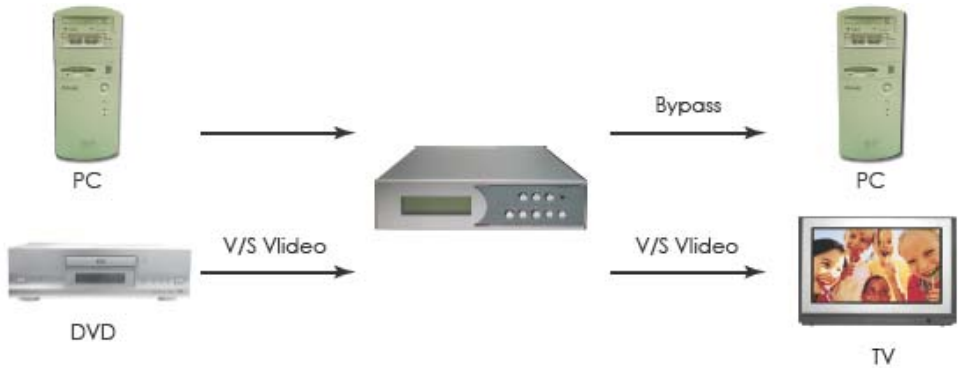

① PC input: Connect the PC input port to the PC output port.
② PC output (Pass through): Connect the PC output port to the display.
③ Video/S-video input: Connect the Video/S-Video input port to the source equipment such as DVD player or set-top-box.
④ Video/S-Video output: Connect the Video/S-Video output port to the display.
⑤ Power: Plug the 9V DC power supply into the system and connect the adaptor to AC wall outlet.

4. Remote Control

1. OSD: Press to turn On/Off the OSD display.
2. Power: Press to power ON/OFF the system.
3. TV System: Press to select video output system.
4. Output: Press to select output mode.
5. Colorbar: The color bar test pattern can test each key function.
6. Zoom: Press to turn On/OFF the zoom function.
7. Default/▲/▼/◄/►: Pan the PC picture Up, Down, Right, Left and Default (Center).
8. Mode: Press the button continuously to toggle through the mode selection.
9. Reset: Press once to reset current setting values back to factory default value. Press "Reset" key for 5 seconds, the system will back to factory default value.
10. Adjust: Press the button continuously to toggle through picture selection mode.
11. + and -: Press to toggle through various control or setting values.
12. Zoom areas: Press for 9 special zoom areas.

5. Connection and Installation

6. Specifications

S-Video Bandwidth	5.5 MHz
Input Format	640 x 480 resolution up to 85Hz
	800 x 600 resolution up to 85Hz
	1024 x 768 resolution up to 85Hz
	1280 x 1024 resolution up to 85Hz
	1600 x 1200 resolution up to 60Hz
	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM
Input ports	1 x PC
	1 x Video (Vp-p 75ohm)
	1 x S-Video (Vp-p 75ohm)
Output Format	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM
Output ports	1 x PC Pass through
	1 x Video (Vp-p 75ohm)
Power Supply	1 x S-Video (Vp-p 75ohm)
	9V/2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm) Weight(g)	191(W) x 140(D) x 48(H) 954
Chassis Material	Metal
Silk Skin Color	Silver
Operating Temperature	Operating from 0°C ~ 48°C

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CAPTION for PC to Video Overlay

Ver 1.71.Blue 2001.06

< Features >

"CAPTION" software allows you to superimpose PC text and graphics onto another live video channel. You may also record superimposed images into a VCR.

< PC System Requirements >

* PentiumnII MMX 400MHz or above;

* 64 MB DRAM or above;

* VGA 16MB display card or above;

* Mouse; Windows 98 / ME / 2000.

< Installation >

1. Click menu <**START>** from Microsoft Windows 98 / ME / 2000.

2. Select <**RUN>** from the Run dialog box.

3. Type a:\SETUP.BAT

4. Follow the onscreen instructions to complete installation until "Setup was completed successfully" appears on screen.

5. You will be requested to extract Disk #1 and insert Disk #2 while running the program.

6. The CAPTION icon will appear on your desktop screen and [Sart] menu after installation.

< Execute CAPTION >

1. Click menu <**START**> <**PROGRAM**> <**CAPTION**> or
2. Click the icon <**CAPTION**> on the desktop.

< Functions Operation >

There are five objects to edit – **TEXT**, **PAGE**, **PICTURE**, **CAPTION**, **CLOCK .**

< Objects edition >

TEXT - The above black background is for texts editing.

      - Move the cursor to the preferred area, click the left button and input the

      texts to be displayed.

      - Press *Font* to select size, color and style of texts.

PAGE - The entire black background may be used for page layout.

      - Move the cursor to the preferred area, click the left button and input the

      texts to be displayed.

      - Press *Font* to select size, color and style of texts.

PICTURE - Press *Load* to open picture file.

      - Press **+/-** to zoom in or out picture.

      - Move the cursor to the chosen picture, press left button and drag the

      PICTURE

      - re-arrange the position of the picture.

Animation Picture .GIF

    - The PICTURE can be animation picture with .GIF format file.

    - You can't adjust the zoom in/out under .GIF file.

    - Please use the .GIF graphical softwae to make .GIF file.

    - The browser (ex: Internet Explorer) has to enable [image display] and

    [animation].

    - For the reason of performance, please design the simpler .GIF file.

    ex: 256 colors, Less 200x200 size picture.

CAPTION - Press *Edit* to edit texts on screen. Maximum of 10 texts

      p er segment (total 5 segments).

     - Select *Horizontal / Vertical Rotation*, or *Slide* for text

      movement control.

     - Press *Font* to select size, color and style of texts.

     - Move the cursor to "Caption Bar", press left button and then move the

      mouse to alter the position of the Caption Bar.

     - Check the [Border] to add border on font. And choose the border color.

CLOCK - Press *Font* to select size, color and style of CLOCK font.

     - Move the cursor to the CLOCK, press left button and drag the CLOCK

      re-arrange the position.

     - The clock display depends on computer internal clock running.

< Play Schedule >

Play Schedule allows user to set preferred time-length and played items for screen display.

    - There are six periods on the Play Schedule at most.

    - The input time-length format is mm:ss (minute:second). mm: 00 ~ 59, ss: 00 ~ 59.

    - The checked Play periods will play after clicking [PLAY] button.

    - Each period can edit separately TEXT, PAGE, PICTURE, CAPTION, CLOCK .

< PLAY >

The selection includes:

Background: - You can select background with either *"RED, GREEN, BLACK* or *BLUE*

      during screen display.

     - The background setup need to match with **CPT-1370** background switch

      setup on rear panel.

Speed: You can select moving speed.

Play: Play the checked periods. Auto-repeat play. Click mouse left-button to stop playing.

About: Show the information about **CAPTION Ver 1.71 .**

--- Note ---

* For the reason of performance, please close the other executing programs (software)

   first. Especially, anti-virus / MS-DOS mode programs.

* The demo on the install disk is for 800x600 resolution.