MPVGA1

Text Graphic Overlay Video Processor

Operation Manual

MPVGA1

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1. Introduction

This text/grphic overlay processor 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 digital signage, advertisement, business application, presentation and lecturing room.

2. Features

- Superimpose PC text and graphics onto another video signal.
- Supports 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
- Supports Zoom and Pan functions.
- Supports vertical and horizontal overscan/underscan control.
- Automatically supports frame rate conversion from 56Hz 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.
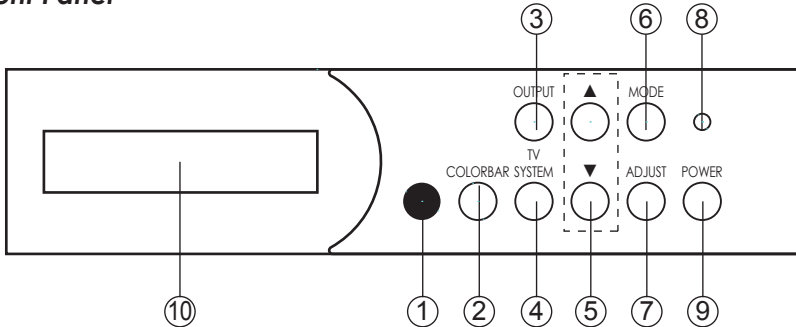- Can adjust from front panel or remote control.

note: • The system diel not supports video format conversion, For example.
         NTSC in NTSC Cout, PAL in PAL out or SECAMIIN 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. soggest the users to preserve the Contrast / Brightness
         / Color / Tint in default value.
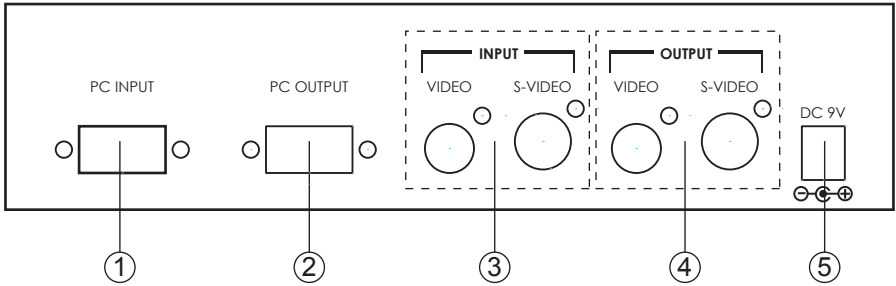
3. Operation Controls and Functions

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.
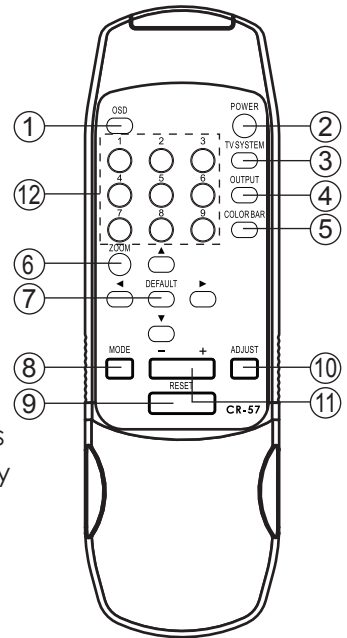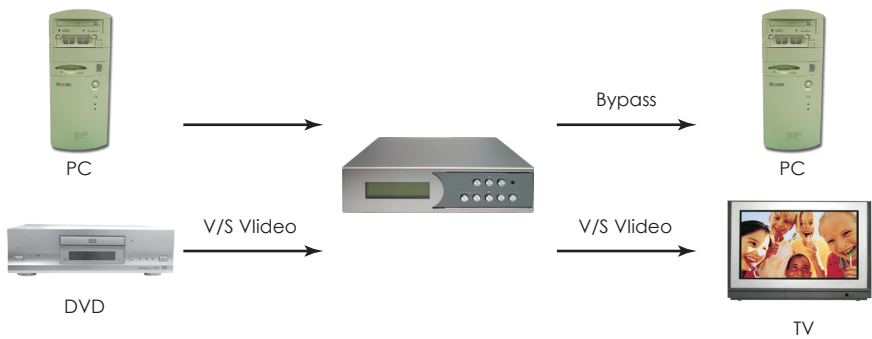⑩   LCD display.

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 1 Vp-p 75ohm
	1 x S-Video 1 Vp-p 75ohm
Output Format	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM
Output Ports	1 x PC Pass through
	1 x Video 1 Vp-p 75ohm
	1 x S-Video 1 Vp-p 75ohm
Power Supply	9V/2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	191(W) x 140(D) x 48(H)
Weight(g)	954
Chassis Material	Metal
Silkscreen Color	Silver
Operating Temperature	0°C ~ 40°C