User Manual

CAT-MAV-MAV

Universal to Universal converter

Version: V2017.001

Contents

1. Introduction

CVT-MAV-MAV is a unique and powerful universal media converter, it can support the converts between analog to digital or digital to analog,. With DVI-I interfaces, users only need to simply plug in the needed adapters to realize the converts between CVBS/DVI/VGA/Ypbpr/HDMI. It also support 3.5mm audio embedded and de-embedded. Supports auto detect the inputs and outputs resources, with fronts buttons users can adjust the color, brightness, sharpness, contrast ratio of the output images. Also supports the advanced mirror and so on functions.
It provides a very stable and universal converting solution, with all kinds of advanced mirror, scaler functions, it has been popularly used in the conferencing rooms, advertising and security and protection systems.

2. Features

• Supports the converts between analog and digital(HDMI/DVI/VGA/YPBPR/CVBS+LR)
• Supports audio embedded and de-embedded, hot-plug
• Supports 26resolutions:
  640*480;800*600;1024*768;1280*1024;1366*768;1440*900;1600*1200;1680*1050;1920
  *1200;1080P@50/60;1080I@50/60;720P@50/60;576P@50;480P@60;576I@50;480I@60;
• Images zoom from -10% to +10%
• Supports automatically detect inputs and outputs sources
• Supports color, brightness, contrast ratio and sharpness adjustment of the output images
• Support advanced MIRROR function(Images rotate off 180 degrees)

3. Specification

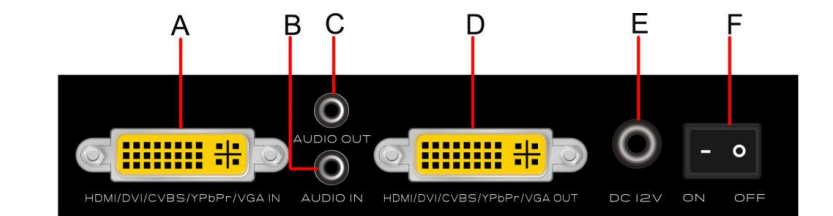|	Parameter	Specification
Interface	CVBS input (DVI-I interface)	Support NTSC, PAL 1Vp-p, 75 Ω
	YPBPR input (DI-I interface)	Support 480p, 576p, 720p, 1080i, 1080p, 0.7Vp-p, 75 Ω
	VGA input (DVI-I interface)	Support 800*600, 1024*768, 1280*720,1280*800, 1280*1024, 1360*768, 1366*768, 1440*900, 1400*1050,1600*1200, 1680*1050, 1920*1080, 1920*1200, 0.7Vp-pm, 75 Ω
	DVI input (DVI-I interface)	Support 800*600,1024*768,1280*720,1280*800,1280*1024,1360*768,1366*768,1440*900,1400*1050,1600*1200,1680*1050,1920*1080,1920*1200
	HDMI input (DVI-I interface)	Support 800*600,1024*768,1280*720,1280*800,1280*1024,1360*768,1366*768,1440*900,1400*1050,1600*1200,1680*1050,1920*1080,1920*1200
	CVBS output (DVI-I interface)	Support NTSC, PAL 1Vp-p, 75 Ω

	YPBPR output (DI-I interface)	Support 480p, 576p, 720p, 1080i, 1080p, 0.7Vp-p, 75Ω
	VGA output (DVI-I interface)	Support 800*600, 1024*768, 1280*720,1280*800, 1280*1024, 1360*768, 1366*768, 1440*900, 1400*1050,1600*1200, 1680*1050, 1920*1080, 1920*1200, 0.7Vp-pm, 75Ω
	DVI output (DVI-I interface)	Support 800*600,1024*768,1280*720,1280*800,1280*1024,1360*768,1366*768,1440*900,1400*1050,1600*1200,1680*1050,1920*1080,1920*1200
	HDMI output (DVI-I interface)	Support 800*600,1024*768,1280*720,1280*800,1280*1024,1360*768,1366*768,1440*900,1400*1050,1600*1200,1680*1050,1920*1080,1920*1200
	Power adapter	AC: 110V-240V 50/60Hz DC: 12V 1500mA
	Consumption	≤7W
Power	Working	0℃-50℃
	Storage	-10℃-75℃
Temperature	Storage	10%-95%RH
	Size	152*96*27mm
Humidity	Weight	200g
Dimension		

4. Packing

MAV to MAV Converter	1	Unit
DC 12V Power adapter	1	Pcs

5. Panels

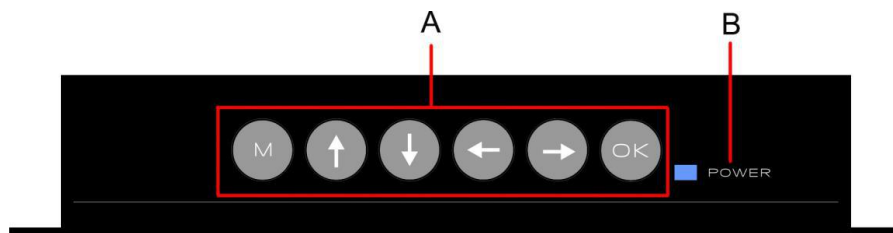**Rear Panel**

A: HDMI/DVI/CVBS/VGA/YPbPr source input interface(DVI-I)

B: 3.5mmAudio input port

C: 3.5mmaudio output port

D: HDMI/DVI/CVBS/VGA/YPbPr source output interface(DVI-I)

E: DC 12Vpower supply

F: Power switch

Front Panel

A: Function keys: Menu, Up, Down, Left, Right, Enter
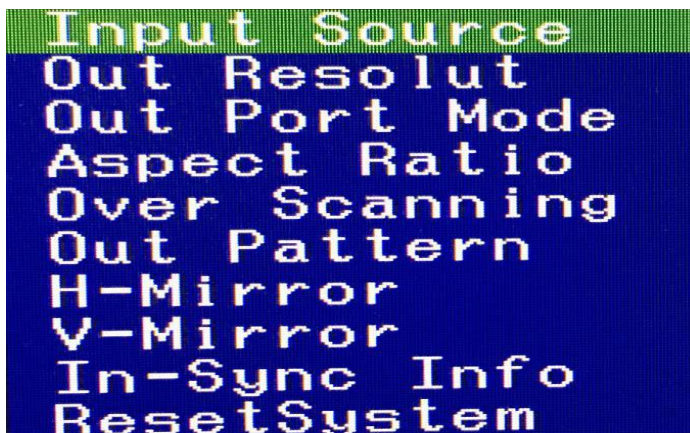
B: POWER Indicator

6. Operation

6.1 Connection Diagram

6.2 Operation of the function keys

Press Menu(M) button, it will show below interface on the display:

Note: Users can adjust the needed contents with the direction and Enter buttons

(1) Input Source: It's automatically detected

(2) Out Resolution: Default resolution is HD(1080P60)

(3) Out Port Mode: Default output connection model is YC 422(16EMB)

(4) Aspect Ratio: Two models to select: 16:9 and 4:3

(5) Over Scanning: Supports images zooming from – 10% to 10%

(6) Out Pattern: 12 models to select, default one is Disable

(7) H-Mirror: Horizontal 180° rotate off

(8) V-Mirror: Vertical 180° rotate off

(9) In-Sync Info: Default resolution HD(1080p60)

(10) Reset System: Turn on to back to factory model

7. Common issues and attention

7.1 Common issues:

When appearing flicking, blue, black screens during the properly using, please check below items:

A. Check the input sources to make sure it's working good

B. Checked the cables, adapters to make sure it's well connected

7.2 Attention:

A: Avoid hanging staff above the equipment, cables, in case of causing damages

B: Tight up the screws

8. After-Sales

8.1 Warranty Information

The Company warrants that the process and materials of the product are not defective under normal use and service for 3 (3) years following the date of purchase from the Company or its authorized distributors.

If the product does not work within the guaranteed warranty period, the company will choose and pay for the repair of the defective product or component, the delivery of the equivalent product or component to the user for replacement of the defective item, or refund the payment which users have made.

The replaced product will become the property of the Company.

The replacement product could be new or repaired.

Whichever is longer, any replacement or repaired of the product or component is for a period of ninety (90) days or the remaining period of the initial warranty. The Company shall not be responsible for any software, firmware, information, or memory data contained in, stored in, or integrated with the product repaired by the customer's return, whether or not during the warranty period.

8.2 Warranty limitations and exceptions

Except above limited warranty, if the product is damaged by over usage, incorrectly use, ignore, accident, unusual physical pressure or voltage, unauthorized modification, alteration or services rendered by someone other than the Company or its authorized agent, the company will not have to bear additional obligations. Except using the product properly in the proper application or normal usage

9. Version Information

Description of version（Document number：CVT-MAV-MAV）		
Date	Version number	Description
Feb 2017	V1.01.01	First version