CYP

CPT-385AM
PC to Video Scan Converter

Operation Manual

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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

VERSION NO.	DATE DD/MM/YY	SUMMARY OF CHANGE
VR0	07/02/13	Preliminary Release
VS1	21/03/14	Updated text/diagrams

CONTENTS

1. INTRODUCTION

The PC to Video Scan Converter is capable of converting a wide range of analog PC resolutions (from VGA to WUXGA) to interlaced NTSC or PAL video output. This unit features a frame rate conversion function as well as an Overscan/Underscan function that allows users to view a PC/Laptop source fullscreen on a Composite or S-Video monitor without cropping the image.

2. APPLICATIONS

• Integrate a PC (VGA) source into a standard definition system

• Video conference

• Business presentation

• Lecture room

3. PACKAGE CONTENTS

• PC to Video Scan Converter

• 5 V/2.6 A DC Power Supply Adaptor

• Operation Manual

4. SYSTEM REQUIREMENTS

Source devices such as a PC or laptop with a D-Sub 15-pin output and Composite and S-Video monitor, Projector or TV.

5. FEATURES

• Automatically detects and converts the source PC signal to NTSC or PAL

• Supports PC input resolutions from VGA to WUXGA

• Scale down PC video to Composite Video/S-Video

• Switch between NTSC/PAL as required

• Overscan/Underscan switch for optimising the image

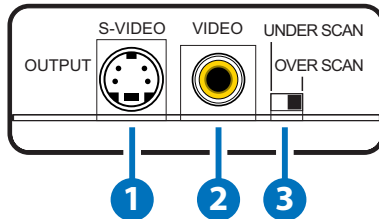• Supports analog to digital ADC conversion

# 6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel
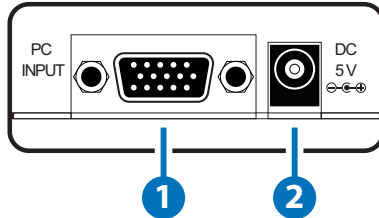
1 **PC INPUT:** Connect to an source device such as PC or laptop with D-Sub 15-pin cable.

2 **DC 5V:** Connect the 5V DC power supply to the unit and plug the adaptor into AC wall outlet.

6.2 Rear Panel

1 **S-VIDEO OUTPUT:** Connect the S-Video output to the S-Video input of an analog monitor, projector or TV.

2 **VIDEO OUTPUT:** Connect the Composite Video output to the Composite Video input of analog monitor, projector or TV.

3 **UNDERSCAN/OVERSCAN:** Switches between Underscan/Overscan modes. Use to adjust the image if it does not fit the screen properly.
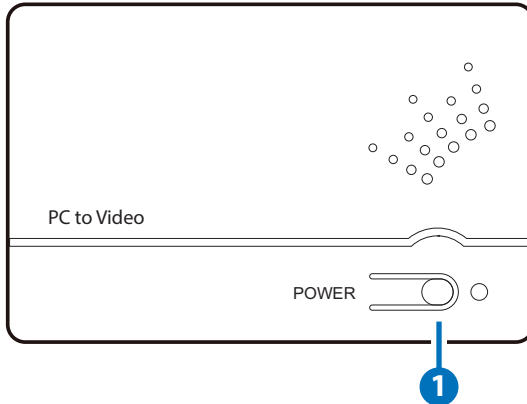
6.3 Side Panel
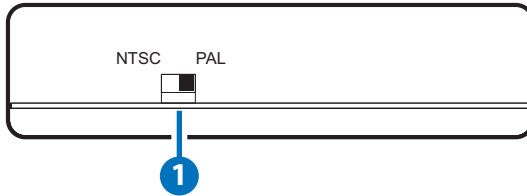
1 **NTSC/PAL Switch:** Switches the output signal between NTSC or PAL format. The unit will automatically adjust the output signal including the size, phase and position. During adjustment the power LED will blink.
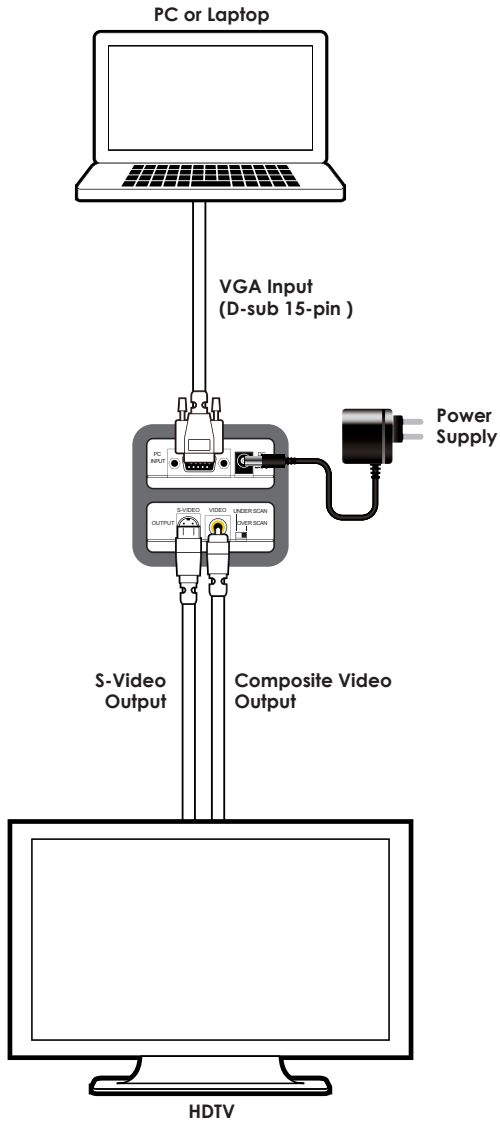
Note: The source signal must be a full screen image in order to allow the auto adjustment feature to function properly.

6.4 Top Panel

1 **POWER & LED:** Press this button to switch the unit ON (the LED will illuminate in green) or to set it to standby mode (the LED will turn red).

7. CONNECTION AND INSTALLATION

PC or Laptop

**VGA Input
(D-sub 15-pin)**

**Power
Supply**

S-VIDEO   VIDEO   UNDER SCAN
OUTPUT   OVER SCAN

PC
INPUT

**S-Video
Output**

**Composite Video
Output**

HDTV

8. SPECIFICATIONS

8.1 Technical Specifcations

Input Port	1×VGA (D-sub 15-pin)
Output Ports	1×Composite Video, 1×S-Video
ESD Protection	Human body model: ±8kV (air-gap discharge) ±4kV (contact discharge)
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions	64mm(W)×113mm(D)×26mm(H)
Weight	90g
Chassis Material	Plastic
Color	Gray
Operating Temperature	0 ˚C ~ 40 ˚C / 32 ˚F ~ 104 ˚F
Storage Temperature	−20 ˚C ~ 60 ˚C / −4 ˚F ~ 140 ˚F
Relative Humidity	20 ~ 90 % RH (non-condensing)
Power Consumption	5W (Max)

8.2 Supported Resolutions

	RESOLUTION
INPUT (PC)	640×480 = VGA@60, 72, 75, 85
	720×400@70, 576p
	800×600 = SVGA@56, 60, 72, 75, 85
	1024×768 = XGA@60*, 70*, 75, 85
	1024×768 = XGA@60*, 70*, 75, 85
	1152×864 = MAC@70, 75, 85

RESOLUTION	
INPUT (PC)	1280×720@25, 30, 50*, 60, 60(CVT)
	1280×768 = WXGA@60(RB), 60*
	1280×800 = WXGA@60(RB), 60, 75
	1280×960 = @60, 85
	1280×1024 = SXGA@60, 75, 85, 60(CVT)*
	1366×768 = WXGA@60(RB), 60
	1440×900 = WXGA@60(RB), 60, 75
	1600×1200 = UXGA@60
	1680×1050 = WSXGA+@60(RB), 60
	1920×1080@24, 25, 30, 50, 60
	1920×1200 = WUXGA@60(RB)
OUTPUT (CV/SV)	NTSC/PAL

Under auto adjustment the image may display some interference, resetting the signal or power-cycling the unit may resolve the issue.

9. ACRONYMS

ACRONYM	COMPLETE TERM
ADC	Analog-to-Digital Converter
NTSC	National Television System Committee
PAL	Phase Alternating Line
VGA	Video Graphics Array
WUXGA	Widescreen Ultra eXtended Graphics Array

MPM-CPT385AM