RGBHV to YPbPr Color Space Converter

CV-V2Y

Operation Manual



This package includes

- One CV-V2Y unit.
- One external power supply.
- One user manual.

Introduction

CV-V2Y is a plug-n-play RGBHV to YPbPr Color Space Converter.
It enables you to view PC graphic image on a HDTV via YPbPr connection.
Since the input signal is not scaled,the signal timing of Input and output are the same.

Applications

Using CV-V2Y to convert PC RGB signal to YPbPr signal for display on HDTV/ PDP/LCD TV.

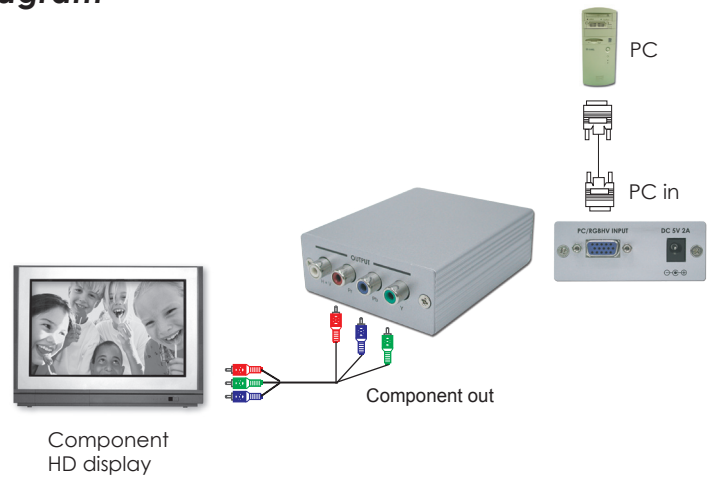
Features

1. Easy to operate, plug and play.
2. To view PC image on component HDTV.
3. Compatible with both interlaced and progressive RGB input.

Specifications

- Input: One (RGBHV) input on DB-15 connector
  * RGB: 0.7Vp-p, 75 ohms, terminated at the source. H,V 5Vp-p TTL sync.
- Outputs: One component video (YPbPr----Y with composite sync, H+V composite sync) on 4 RCAs
  * Y: 1 Vp-p @ 75 ohm terminated
  * PbPr: 0.7 Vp-p
  * H+V: 5 Vp-p
- Dimensions(mm): 76(W)x30(H)x105(D)
- Universal power supply: 5V 2A center+, 100~240V AC, 50~60Hz
- Weight(g): 180
- Enclosure type: Metal
- Output clock frequency is always the SAME as the input clock frequency.

Setup Diagram



Note: The H+V composite sync output is an auxiliary and is not used in most installation.

Input-Output Cross reference

Input RGB / Output YPbPr	VGA	SVGA	XGA	15K RGB	
				fv=60Hz	fv=50Hz
480P	●	—			
720P		—	▲		
480i				●	
576i					●

– : No, similar, or matching resolution in YPbPr domain.

▲: Since the timing of component out does not exactly match a standard HD 720p, some TVs may not be able to show picture.

● : Output acceptable by all TVs.