

# 4x1

## PC/HDTV Switcher

### Operation Manual





## **Applications:**

Cypress CPCD-41AR PC/HDTV is perfect solution for switching between various PC/HDTV sources such as PCs, DVD... to share one display monitor, TV or projector with resolution up to WUXGA/1080p.

## **Features:**

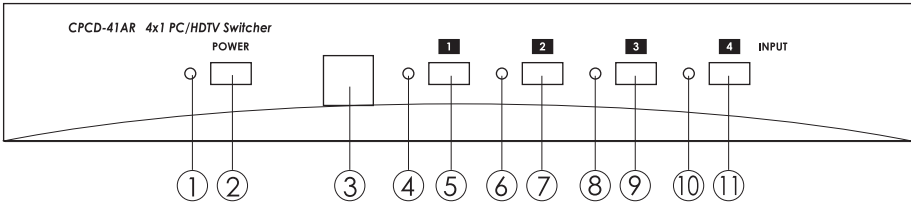
- LED indicators
- IR remote control.
- Supports high resolution input:  
PC: VGA, SVGA, XGA, SXGA,UXGA(1600x 1200) and WUXGA(1920x1200),&  
HDTV: 480i, 576i, 480p, 576p, 720p. 1080i and 1080p.
- Bandwidth: 650 MHz.
- Plug and play, easy to install and operate.
- Built-in advance circuit ensures a smooth transition when switching from one PC/HD source into another.
- RS-232 interface allows control from a distant device.
- Ideal for presentation and large shop intergration.
- Audio format: L/R analog.

## **Package includes:**

- CPCD-41AR unit.
- IR remote control
- 5VDC power supply, center +
- User manual
- A 3V lithium battery
- One set of 3.5mm phone jack to 2R audio cable.

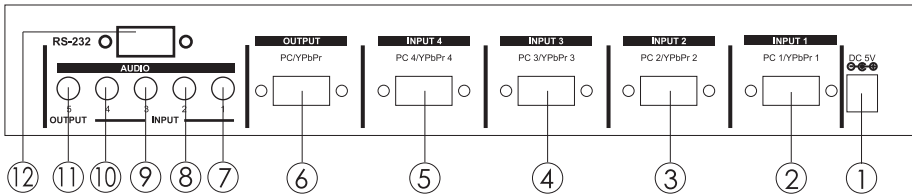
# Operation Controls and Functions

## Front Panel



1. Power indicator LED.
2. Power ON/OFF switch: Push the button to turn ON/OFF the power.
3. IR sensor: Infrared remote control sensor.
4. Input 1 indicator LED .
5. Input 1 switch: Push the button, LED lights up, source 1 is selected.
6. Input 2 indicator LED.
7. Input 2 switch: Push the button, LED lights up, source 2 is selected.
8. Input 3 indicator LED .
9. Input 3 switch: Push the button, LED lights up, source 3 is selected.
10. Input 4 indicator LED.
11. Input 4 switch: Push the button, LED lights up, source 4 is selected.

## Rear Panel

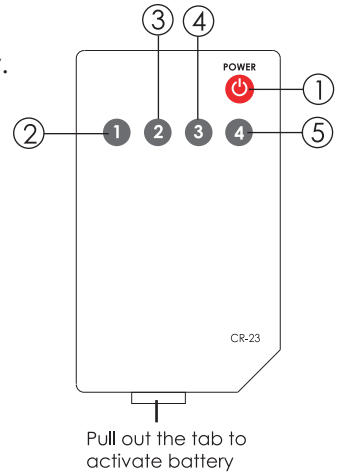


1. DC 5V: 5 Volt, 5W DC input , center +.
2. Input 1 connector: Input connector for PC 1/YPbPr 1.
3. Input 2 connector: Input connector for PC 2/YPbPr 2.
4. Input 3 connector: Input connector for PC 3/YPbPr 3.
5. Input 4 connector: Input connector for PC 4/YPbPr 4.
6. Output connector: Output connector for PC/YPbPr.
7. Audio input 1 connector: Audio input connector for Audio (L+R) 1 via 3.5mm phone jack to 2R audio cable.
8. Audio Input 2 connector: Audio input connector for Audio (L+R) 2 via 3.5mm phone jack to 2R audio cable.
9. Audio input 3 connector: Audio input connector for Audio (L+ R) 3 via 3.5mm phone jack to 2R audio cable.
10. Audio input 4 connector: Audio input connector for Audio (L+R) 4 via 3.5mm phone jack to 2R audio cable.
11. Audio output connector: Audio output connector for Audio(L+R) via 3.5mm phone jack to 2R audio cable.
12. RS-232 interface: DB-9 female connector for connecting to your other control console for remote control.

## Remote Control

1. Power: Switch between power ON and Standby.
2. Press button 1 to select source 1.
3. Press button 2 to select source 2.
4. Press button 3 to select source 3.
5. Press button 4 to select source 4.

Note: Replacement battery can be found at a local electronic retail store.

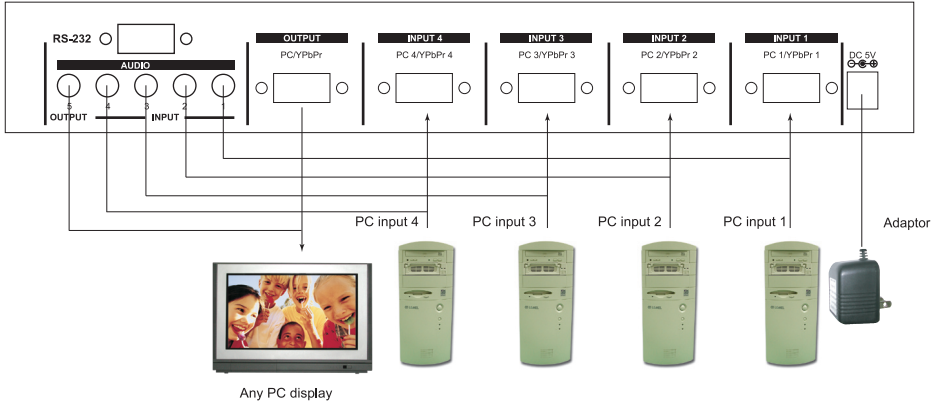


## Specifications:

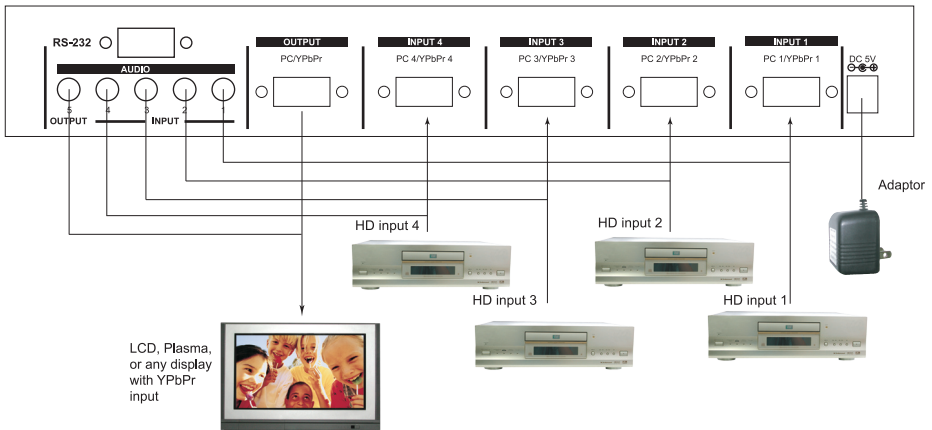
Input	PC/YPbPr:4	RGB: 0.7Vp-p or 1 Vp-p with sync 75 ohm /HD(TTL): 5Vp-p 10 K ohm
	Analog Audio: 4 (L/R)	2Vrms max 47 k ohm
Output	PC/YPbPr:1	RGB: 0.7Vp-p or 1 Vp-p with sync 75 ohm /HD(TTL): 5Vp-p 10k ohm
	Analog Audio: 1 (L/R)	2 Vrms max 47 k ohm
PC /YPbPr Bandwidth	650 MHz (-3db)	
Differential gain	0.05%	
Differential phase	0.05 degree	
Power consumption	5 Watts (max.)	
Power	5V 1A AC adaptor	
Dimensions	292(W)x 73(D) x 44(H)mm	
Unit gross	1.5Kgs	

# Installation and Connection

## 1. 4 x PC input, 1x PC output



## 2. 4 x HD input, 1x HD output



# CPCD-41AR RS-232 Remote Control Protocol

\* The connection between CPCD-41AR and remote controller with **RS-232 modem cable**.

Pins definition of modem cable

CPCD-41AR			Remote Controller	
PIN	Definition		PIN	Definition
1	NC		1	NC
2	T xD		2	R xD
3	R x D		3	T x D
4	NC		4	NC
5	GND		5	GND
6	NC		6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

\* RS-232 transmission format:

Baud Rate : 9600 bps

Data Bit : 8 Bits

Parity: None

Stop Bit: 1 bit

\* Command :

Command Code	Comment
"I" + "1"	PORT 1 ON
"I" + "2"	PORT 2 ON
"I" + "3"	PORT 3 ON
"I" + "4"	PORT 4 ON
"P" + "1"	POWER ON
"P" + "0"	POWER OFF

