User Manual

HDTVCVT4K60501

Multimedia HDMI Switcher

Version: V2018.001

1. Introduction

HDTVCVT4K60501 is a high performance 4K presentation switcher with scaling function, it provides users 5 inputs(1*DP, 3*HDMI and 1*VGA+3.5) and 1 output(1*HDMI+3.5), with the front buttons, users can do the sources switching, and also resolution selection, maximum the output resolution can up to 4K60Hz or down to 720P. It also supports remote control.

2. Features

➢ Supports 1*DP, 3*HDMI, 1*VGA+3.5mm audio inputs
➢ Supports 1*HDMI+3.5mm audio output
➢ Supports scaling function
➢ Supports maximum resolution up to 4K@60Hz
➢ Remote control or front buttons fast switching
➢ DP1.2, HDMI2.0/1.4, HDCP2.2/1.4 compliant
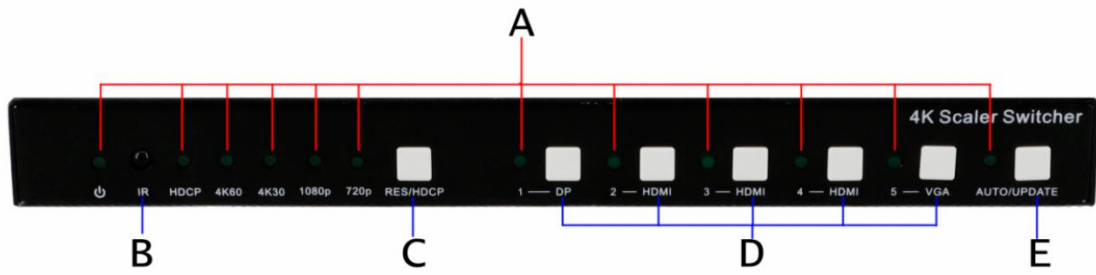➢ Visual LED status indicators

3. Specification

Input	1*DP, 3*HDMI, 1*VGA+3.5mm audio
Output	1*HDMI+3.5mm audio
Protocol Standard	DP1.2, HDMI2.0/1.4, HDCP2.2/1.4
Resolution	4K@60Hz,4K@30Hz, 1080P@60Hz, 720P@60Hz
Dimension	250*100*26mm(9.84*3.94*1.02inch)
Weight	0.5kg(1.1lb)(No packing)
Power Supply	DC 12V 1A
Consumption	2.5W
Working Humidity	10%-90%
Temperature	-10℃-50℃
Storage	-20℃-75℃

4. Packing

HDTVCVT4K60501	1	Pcs
Power adapter	1	Pcs
Remote control	1	Pcs
Mount ears	1	Pair

5. Panels

5.1 Front Panel

A: Indicators for the real-time information

B: IR receiver

C: Resolution selection or HDCP button
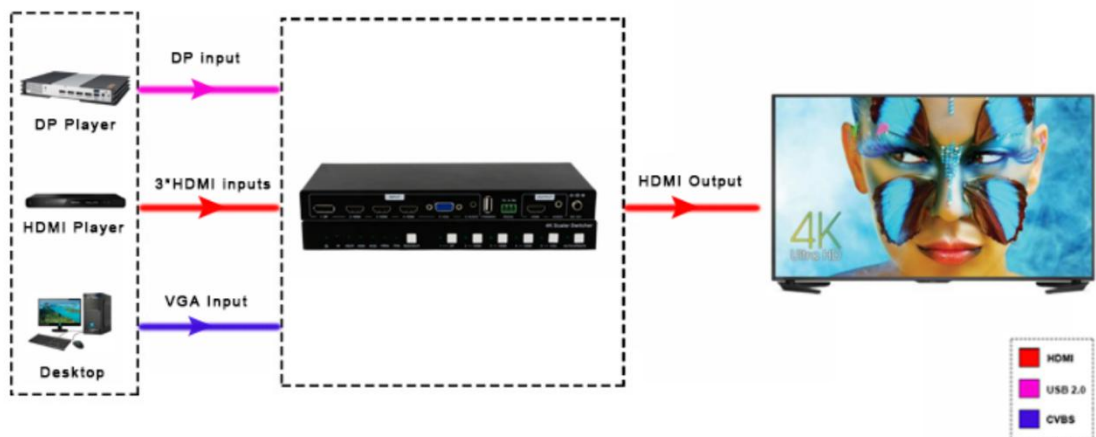
D: 5 sources switching buttons

E: Auto or upgrade button

5.2 Back Panel

A: Input area

B: Output area

C: USB port for upgrading

D: 3-pin RS232

E: DC 12V

6. Operation diagram

6.1 Connection diagram

6.2 Front Panel Button Control

The Front panel buttons can be used for sources switching, resolution/HDCP selection, and also the upgrading.

6.2.1 Resolution Adjusting

Manually Press **RES/HDCP** button to select the resolutions:

4K60(3840*2160@60Hz)

4K30(3840*2160@30Hz)

1080P(1920*1080@60Hz)

WUXGA(1920*1200@60Hz)

720P(1280*720@60Hz)

6.2.2 Output HDCP Setting

Press and Hold **RES/HDCP** button for more than 5s will disable/enable output HDCP

6.2.3 Input Sources Switching

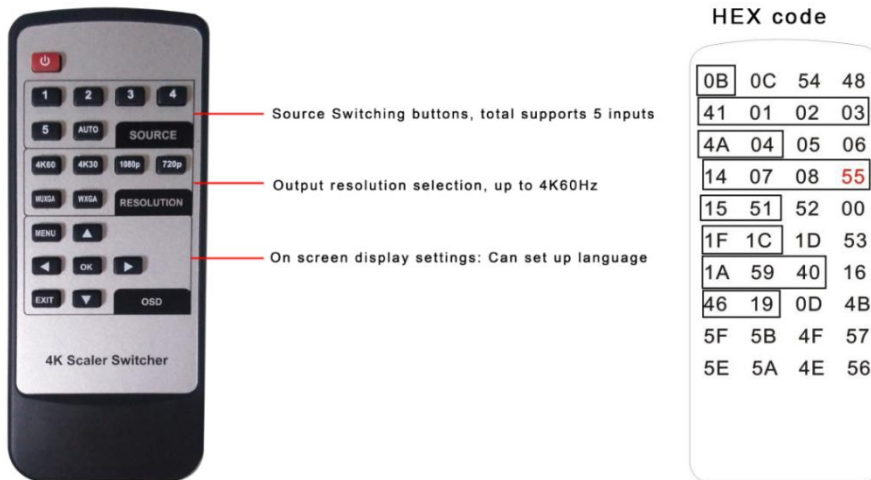Press DP button will change to DP input

Press HDMI1 button will change to HDMI 1 input

Press HDMI2 button will change to HDMI 2 input

Press HDMI3 button will change to HDMI 3 Input

Press AUTO button will enter to Auto scan input source mode, when curent source not have signal then will change next input source.

6.3 Remote control

HEX code

0B	0C	54	48
41	01	02	03
4A	04	05	06
14	07	08	55
15	51	52	00
1F	1C	1D	53
1A	59	40	16
46	19	0D	4B
5F	5B	4F	57
5E	5A	4E	56

Source Switching buttons, total supports 5 inputs

Output resolution selection, up to 4K60Hz

On screen display settings: Can set up language

6.4 3-pin RS232 control by the 3ʳᵈ party

6.4.1 Connection with RS232 Communication Port

Except the front buttons, remote control, it also can be controlled by far-end control system through the RS232 communication port. The PINs' definition is listed as below:

6.4.2 RS232 Communication Commands

All command is ended 0x0D, 0x0A

Baud rate: 115200

Data bit: 8

Stop bit: 1

Parity bit: none

Command	Function
SetInputSrc X	Set Input source X= 1: DP, 2: HDMI1, 3: HDMI2, 4: HDMI3, 5: VGA
SetOutRes X	Set Output solution X=1: 720P, 2: 1080P, 3: 4K30, 4: 4K60 420, 5: 4K60, 6: WUXGA, 7: WXGA(1280x800), 8: 1024x768, 9: 1366x678
SetSrcAuto X	X= 0: Disable Auto Scanning 1: Enable Auto Scanning
SetOutHDCP X	X=0: Disable Output HDCP 1: Enable Output HDCP
FactoryReset	Restore to Factory setting
UpdateFW	Will Update Firmware

Note: The "X" character can be "X" or "x"

7. After-Sales

7.1 Warranty Information

The Company warrants that the process and materials of the product are not defective under normal use and service for 2 (2) 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.

7.2 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

8. Version Information

Description of version（Document number：HDTVCVT4K60501）		
Date	Version number	Description
June 2018	V1.01.01	First version