



# HDTV CV0702HDS User Manual





Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

## **SURGE PROTECTION DEVICE RECOMMENDED**

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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### Introduction:

HDTVCV0702HDS is a HDMI,VGA, Component and Composite presentation switcher. Embedded splitter and dual switcher modes, it can work as 7:1x2 multiple splitter and 4x1



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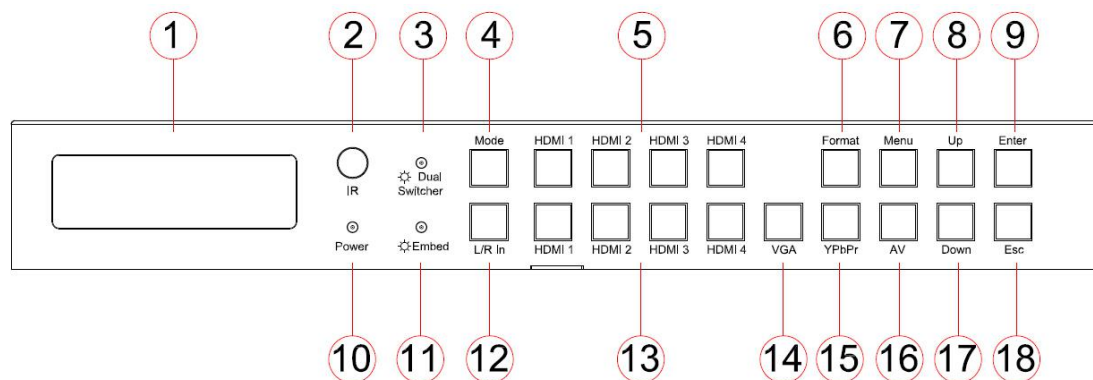
&7x1 dual switcher. This presentation switcher also features a switchable digital bypass output allowing any HDMI input to be directly bypassed via that HDMI output to cater for the 4K source. With advanced audio embedding and de-embedding, it can provide flexible audio signal integration. Each source can be switched to the HDMI output using the front-panel push buttons, IR remote control or RS-232 interface.

### Features:

- Dual mode selectable, 1x2 splitter mode and dual switcher mode
- Bypass and scaled formatted output selectable
- Audio embedder and audio extractor
- Front-panel LCD display for status feedback
- Multiple switching mode, push-in button, IR remote control, RS-232 control, and TCP/IP control
- Easy installation with rack-mounting ears
- HDCP compliant

### Panel Descriptions

#### Front Panel



1. LCD display---Show the status of input-output selection, EDID info and so on.
2. IR receiver window---Receive the IR from the remote control of HDTVCV0702HDS.
3. Dual switcher LED indicator---When the LED is lit, dual switcher mode is on. Output HDMI 1 is selected by HDMI1/HDMI2/HDMI3/HDMI4 which works as 4K 4x1 switcher in by-pass mode; Output HDMI2 is selected by HDMI1/HDMI2/HDMI3/HDMI4/VGA/YPbPr/AV, it will



always be scaled & formatted output regardless of by-pass ON/OFF, works as scaling 7x1 switcher,

4. Mode button---Press to set Dual Switcher mode ON/OFF
5. HDMI input 1 to 4 selection buttons ---Press to select the output 1 from 1 to 4 working as 4k 4x1 switcher.
6. Format set button---Press to set the resolution for the output.
7. Menu button---Press to enter EDID set , volume setting or F/W information. Three EDID segments will display on the LCD panel formatted as: INPUT VIDEO AUDIO, for example: IN1 1080P 2.0CH, means to set 1080P 2.0CH EDID to INPUT1. The blinking segment is the one can be changed currently, press "Menu" button will change the segment. Segment content items as below:

INPUT	VIDEO	AUDIO	Note
IN1	1080I	2.0CH.	
IN2	1080P	5.1CH	
IN3	3D	7.1CH	
IN4	4K2K	NONE	
IN5	D1024		D1024=DVI 1024 x 768
IN6	D1080		D1080=DVI 1920 x 1080
IN7	D1200		D1200=DVI 1920 x 1200
IN8	OUT1		OUT1=Copy OUTPUT1 EDID to INPUTx
ALL	OUT2		ALL=Set EDID to ALL INPUTs OUT2=Copy OUTPUT2 EDID to INPUTx
	OUT3		OUT3=Copy OUTPUT3 EDID to INPUTx
	OUT4		OUT4=Copy OUTPUT4 EDID to INPUTx
	OUT5		OUT5=Copy OUTPUT5 EDID to INPUTx
	OUT6		OUT6=Copy OUTPUT6 EDID to INPUTx
	OUT7		OUT7=Copy OUTPUT7 EDID to INPUTx
	OUT8		OUT8=Copy OUTPUT8 EDID to INPUTx

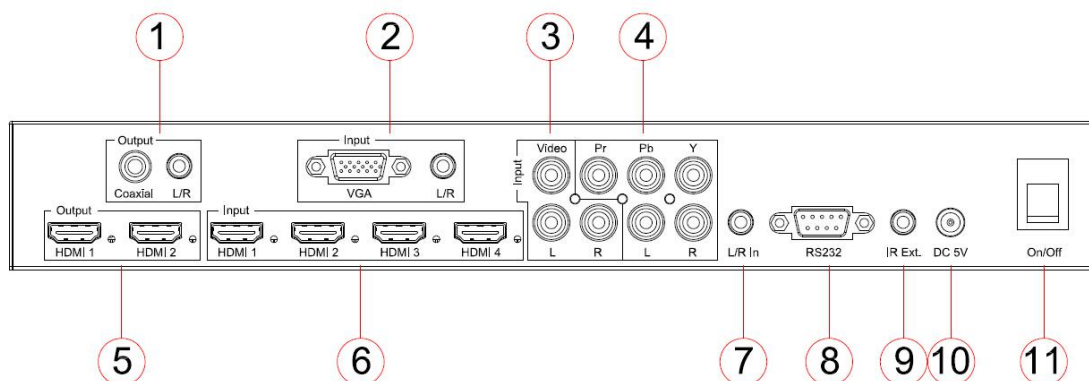
Volume can be changed by UP and Down button. During F/W mode , press Enter button will show the current F/W information.

8. Up selection button--- Press to change segment's value.
9. Enter button--- Press to confirm the settings.
10. Power LED indicator---Indicate the status of power.



11. Embed LED indicator ---When the LED is lit, embed mode is on. When embed in on, the L/R in will be embedded in to the HDMI outputs (The two outputs will be embedded with the L/R in audio and the volume is adjustable when in splitter mode; Only output 2 will be embedded with the L/R in audio and the volume is adjustable when in dual switcher mode)
12. L/R in selection button---Press to embed L/R audio to the HDMI output.
13. HDMI input selection button 1 to 4---Press to select the input from 1 to 4.
14. VGA input selection button---Press to select VGA input.
15. YPbPr input selection button---Press to select YPbPr input.
16. AV input selection button---Press to select AV input.
17. Down selection button---Press to change segment's value.
18. ESC---Press to quit EDID set mode.

### Back Panel

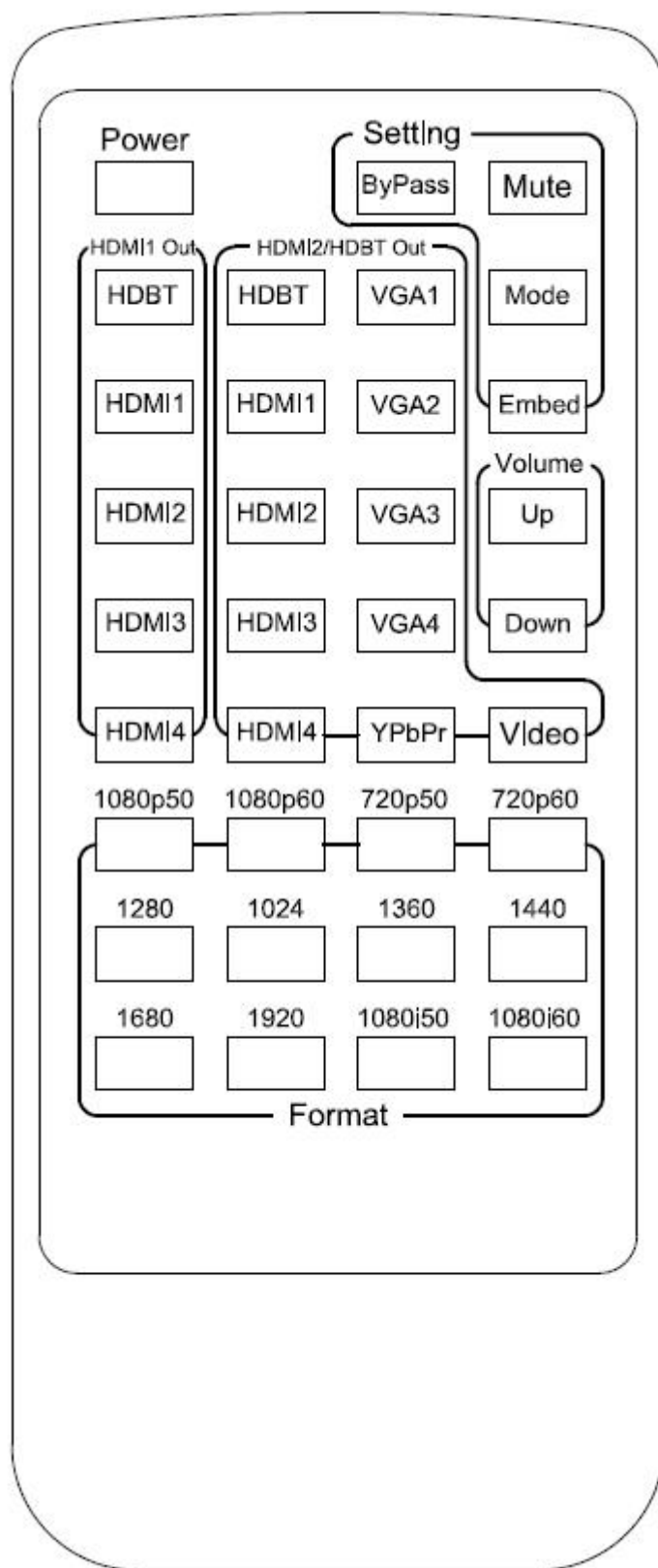


1. Audio output --- It has coaxial and L/R outputs, the audio outputs will always follow HDMI output 2.
2. VGA input--- VGA input with L/R audio input.
3. AV input--- AV input with L/R audio input.
4. YPbPr input--- YPbPr input with L/R audio input.
5. HDMI outputs--- 2x HDMI output,
6. HDMI input 1 to 4 ---Connect to HDMI sources
7. L/R In--- Connect to addition audio input to embed to HDMI output



8. RS232 port--- DB9 connector
9. IR Ext. --- Connect to IR receiver cable.
10. DC 5V---Connect to 5V/2A power supply.
11. Power switch ---Power on/off the unit.

### **Remote Control Description**







### Application Diagram

N/A

### Specifications:

Bandwidth :	10.2Gbps
Video Input Connectors:	4x HDMI Type A, 1x VGA, 1xYPbPr,1x AV
Video Output Connectors:	2x HDMI Type A
Audio Input Connectors:	2x 3.5mm stereo jack, 4x RCA (2 x L/R)
Audio Output Connectors:	1x 3.5mm stereo jack,1x RCA (SPDIF)
RS-232 serial port:	1x DB 9 connector
IR Input ports:	1x 3.5mm stereo jack
Dimensions (W x H x D):	323mm x 135mm x 44mm , without feet
Shipping Weight:	1.2Kg
Operating Temperature:	32°F to 104°F (0°C to 40°C)



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Storage Temperature :	-4°F to 140°F (-20°C to 60°C)
Power Supply:	DC 5V/2A

### Package Contents:

1. 1x HDTVCV0702HDS
2. 1x 5V/2A power supply
3. 1x Remote control
4. 1x IR Receiver.
5. 1x mounting kit.

### RS-232 Pin Assignment

HDTVCV0702HDS		Remote Control Console	
PIN	Assignment	PIN	Assignment
1	NC	1	NC
2	Tx	2	Rx
3	Rx	3	Tx
4	NC	4	NC
5	GND	5	GND
6	NC	6	NC
7	NC	7	NC
8	NC	8	NC



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9	NC		9	NC
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Baud Rate: 57600 bps

Data Bit: 8-bit

Parity: None

Stop Bit: 1-bit

Flow Control: None

## RS232 and Telnet Commands

No.	Command	Action
1	?	Print Help Information
2	HELP	Print Help Information
3	STATUS	Print System Status And Port Status
4	PON	Power On, System Run On Normal State
5	POFF	Power Off, System Run On Power Save State
6	IR ON/OFF	Set System IR Control On Or Off
7	KEY ON/OFF	Set System KEY Control On Or Off
8	DBG ON/OFF	Set Debug Mode On Or Off
9	BEEP ON/OFF	Set Onboard Beep On Or Off
10	RESET	Reset System To Default Setting  (Should Type "Yes" To Confirm, "No" To Discard)
11	OUT xx FR yy	Set OUTPUT:xx From INPUT:yy xx=00: Select All OUTPUT Port xx=[01...02]: Select One OUTPUT Port yy=[01...04]: HDMI Input 01 ~ 04 yy=AV: AV Input( Output 02 Only ) yy=COMP: Component Input( Output 02 Only ) yy=VGA: VGA Input( Output 02 Only )
12	OUT SP/MX	Set OUTPUT To Splitter or Matrix Mode
13	OUT RES rr	Set Scaler Output Resolution rr=01: 1080P@50Hz rr=02: 1080P@60Hz rr=03: 720P@60Hz



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		rr=04: 720P@50Hz rr=05: 1280x1024@60Hz rr=06: 1024x768@60Hz rr=07: 1360x768@60Hz rr=08: 1440x900@60Hz rr=09: 1680x1050@60Hz
14	EDID xx CP yy	Set Input:xx EDID Copy From Output:yy yy=[00]:  yy=[01...08]
15	EDID xx DF zz	Set Input:xx EDID To Default EDID:zz xx=00: Select All INPUT Port xx=[01...04]: Select One INPUT Port yy=[01...02]: Select One OUTPUT Port zz=00: HDMI 1080p@60Hz, Audio 2CH PCM zz=01: HDMI 1080p@60Hz, Audio 5.1CH PCM/DTS/DOLBY zz=02: HDMI 1080p@60Hz, Audio 7.1CH PCM/DTS/DOLBY/HD zz=03: HDMI 1080i@60Hz, Audio 2CH PCM zz=04: HDMI 1080i@60Hz, Audio 5.1CH PCM/DTS/DOLBY zz=05: HDMI 1080i@60Hz, Audio 7.1CH PCM/DTS/DOLBY/HD zz=06: HDMI 1080p@60Hz/3D, Audio 2CH PCM zz=07: HDMI 1080p@60Hz/3D, Audio 5.1CH PCM/DTS/DOLBY zz=08: HDMI 1080p@60Hz/3D, Audio 7.1CH PCM/DTS/DOLBY/HD zz=09: HDMI 4K2K, Audio 2CH PCM zz=10: HDMI 4K2K, Audio 5.1CH PCM/DTS/DOLBY zz=11: HDMI 4K2K, Audio 7.1CH PCM/DTS/DOLBY/HD zz=12: DVI 1280x1024@60Hz, Audio None zz=13: DVI 1920x1080@60Hz, Audio None zz=14: DVI 1920x1200@60Hz, Audio



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		None
16	AUD SCA ORG	Scaler Audio Input Follow Port Selection
17	AUD SCA ANA	Scaler Audio Input From Analog L/R Signal
18	AUD xx	Set Scaler Audio Volume xx=[00...30]: Volume Value

### Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

### Warranty Policy

HDTV Supply products are warranted against defects in material and workmanship for one years from the date of shipment. During the warranty period, HDTV Supply will, at its option, repair or replace products that prove to be defective. Repairs are warranted for the remainder of the original warranty or a 90 day extended warranty, whichever is longer.

For equipment under warranty, the owner is responsible for freight to HDTV Supply and all related customs, taxes, tariffs, insurance, etc. HDTV Supply is responsible for the freight charges only for return of the equipment from the factory to the owner. HDTV Supply will return the equipment by the same method (i.e., Air, Express, Surface) as the equipment was sent to HDTV Supply.

All equipment returned for warranty repair must have a valid RMA number issued prior to return and be marked clearly on the return packaging. HDTV Supply strongly recommends all equipment be returned in its original packaging.

HDTV Supply's obligations under this warranty are limited to repair or replacement of failed parts, and the return shipment to the buyer of the repaired or replaced parts.

### Limitations of Warranty

The warranty does not apply to any part of a product that has been installed, altered, repaired, or misused in any way that, in the opinion of HDTV Supply, would affect the reliability or detracts from the performance of any part of the product, or is damaged as the result of use in a way or with equipment that had not been previously approved by HDTV Supply.

The warranty does not apply to any product or parts thereof where the serial number or the serial number of any of its parts has been altered, defaced, or removed.

The warranty does not cover damage or loss incurred in transportation of the product.



The warranty does not cover replacement or repair necessitated by loss or damage from any cause beyond the control of HDTV Supply, such as lightning or other natural and weather related events or wartime environments.

The warranty does not cover any labor involved in the removal and or reinstallation of warranted equipment or parts on site, or any labor required to diagnose the necessity for repair or replacement.

The warranty excludes any responsibility by HDTV Supply for incidental or consequential damages arising from the use of the equipment or products, or for any inability to use them either separate from or in combination with any other equipment or products.

A fixed charge established for each product will be imposed for all equipment returned for warranty repair where HDTV Supply cannot identify the cause of the reported failure.

### Exclusive Remedies

HDTV Supply's warranty, as stated is in lieu of all other warranties, expressed, implied, or statutory, including those of merchantability and fitness for a particular purpose. The buyer shall pass on to any purchaser, lessee, or other user of HDTV Supply's products, the aforementioned warranty, and shall indemnify and hold harmless HDTV Supply from any claims or liability of such purchaser, lessee, or user based upon allegations that the buyer, its agents, or employees have made additional warranties or representations as to product preference or use.

The remedies provided herein are the buyer's sole and exclusive remedies. HDTV Supply shall not be liable for any direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory.

### RMA Policy

When returning product to HDTV Supply for any reason, the customer should fill out the official RMA form to obtain a RMA number. Without the permission or approval, HDTV Supply will be no responsible for any return.

This can be initiated by emailing or calling your related sales.

All requests are processed within 48 hours.

### Standard Replacement

For customers that agree to return defective product to HDTV Supply first, a Standard Replacement option is available.

An RMA number must first be issued by sales. This RMA number will need to be referenced on the outside of the return shipment.

Upon receipt of the defective product, HDTV Supply will, at its discretion, either repair or replace the product and ship it out in the most expeditious manner possible. Subject to

HDTV Supply, Inc.

Contact: support@hdtvsupply.com 14



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availability, the replacement product will be shipped on the business day following receipt of the defective product.

In the event the product returned to HDTV Supply has been discontinued (i.e. the product is no longer being manufactured by HDTV Supply but is still under warranty), HDTV Supply will, at its discretion, either repair or replace with recertified product.

### **Once you have obtained an RMA number**

After obtaining an RMA number from HDTV Supply, you must send the product - freight prepaid - to HDTV Supply, Inc.logy Co., Ltd. The HDTV Supply RMA number must be prominently displayed on the outside of your package. If you send your product to HDTV Supply without the RMA number prominently displayed on the outside of the package, it will be returned to you unopened.

Please use a shipping company that can demonstrate proof of delivery. HDTV Supply does not accept responsibility for any lost shipments unless proof of delivery to HDTV Supply is provided.

### **Please note:**

Product shipped to HDTV Supply must be properly packaged to prevent loss or damage in transit.

Shipping your RMA to HDTV Supply using regular mailing envelopes is not acceptable, as they do not protect the product from damage during shipping.

HDTV Supply will not repair or replace a module that is shipped in such a way that the product is not properly protected.

HDTV Supply will not accept any product that has been damaged as a result of accident, abuse, misuse, natural or personal disaster, or any unauthorized disassemble, repair or modification.