

3-in/8-out HDMI Switcher/ Distributor

Operation Manual



CHDMI-38C

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• **Safety Precautions**

Please read all instructions before attempting to unpack or 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 module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

• **Revision History**

Version No	Date	Summary of Change
VR1	20110110	Remote Control

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1. Introduction

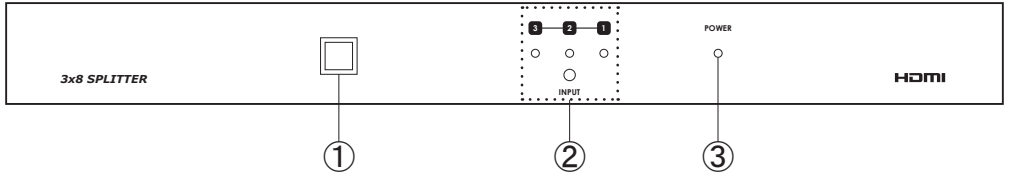
Cypress CHDMI-38C is a high performance 3-in 8-out HDMI Switcher with remote control. It allows you to connect up to 3 HDMI sources and 8 HDMI displays. The eight HDMI outputs are identical and each supports up to 1080p. Simply pressing one button you can select your desired HDMI source for display on eight HDMI TV simultaneously.

2. Features

- Built-in EDID simulator and HDCP keyset allows each output to work independently in connecting to a HDMI display.
- Splits 3 HDMI sources up to 8 outputs without signal loss.
- Compliant with HDMI 1.2, HDCP 1.1 and DVI 1.0 specifications.
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480p to 1080p. Maximum resolution bandwidth is 165MHz.
- Provides multi-channel I2S digital audio output, with sampling rate up to 192KHz.
- Supports both compressed and uncompressed multi-channel audio.
- Remote control.
- Full HD 1080p supported.

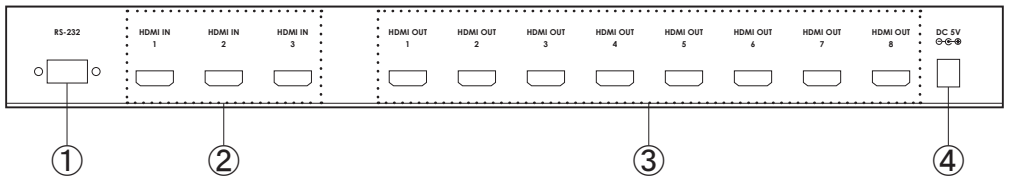
3. Operation Controls and Functions

3.1 Front Panel



- ① Remote control sensor.
- ② Input select/Indicators: Press the " INPUT" button repeatedly to switch to your desired input source and the LED will illuminate to indicate which input source is selected.
- ③ Power LED indicator: The LED will illuminate when the power is connected.

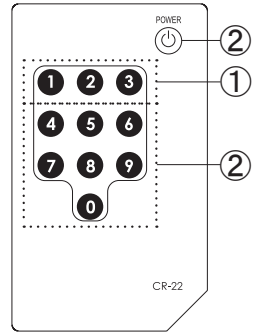
3.2 Rear Panel



- ① RS-232 Communication Port: Connect to the COM1 or COM2 port of your PC using for remote control.
- ② HDMI input 1/2/3: Connect to the HDMI or DVI output of your source equipments such as DVD player or set-top-box.
- ③ HDMI outputs 1 to 8: Connect each of these output ports to the HDMI input of a HDMI display.
- ④ Power: Plug the 5V DC power supply into the CHDMI-38C and connect the adaptor to AC wall outlet.

4. Remote Control

- ① INPUT Select for HDMI IN: Press 1, 2 or 3 to select the desired input source.
- ② Power and 4 ~ 0 are void buttons (no function).



5. Specifications

Frequency bandwidth	1.65Gbps (single link)
Input/Output	3-in/8-out HDMI female ports
5VDC power supply	
Operating temperature range	0°C ~ 40°C
Dimensions (mm)	436(W) x 116(D) x 44(H)
Weight(g)	1600

6. CHDMI-38C RS-232 Remote Control Protocol

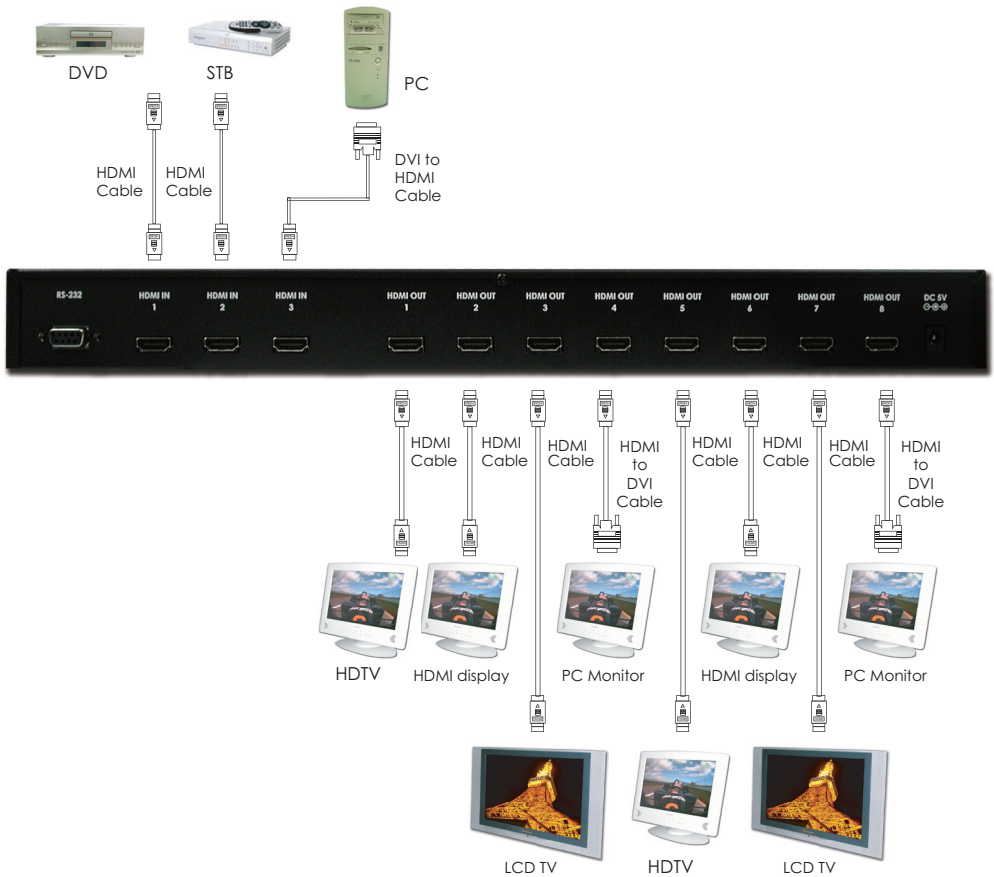
- * The connection between CHDMI-38C and remote controller with RS-232 modem cable.
Pins definition of modem cable

CHDMI-38C		→	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 : 19200 bps
Data Bit : 8 Bits
Parity: None
Stop Bit: 1 bit

Command Code	Comment
W 01 01	PORT 1 ON
W 01 02	PORT 2 ON
W 01 03	PORT 3 ON

7. Connection and Installation



Acronyms



Acronym

Complete Term



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