



HDMI 1x2 Splitter User Guide

Model CM-SP1210-HD



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Contact information

For contact information, see www.clarecontrols.com.

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Important information

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Installation in accordance with this manual, applicable codes, and the instructions of the authority having jurisdiction is mandatory.

While every precaution has been taken during the preparation of this manual to ensure the accuracy of its contents, Clare Controls, LLC. assumes no responsibility for errors or omissions.

Introduction

The CM-SP1210-HD 1x2 HDMI splitter is equipped with a high-quality one input, two output distribution chip. Its anti-static function gives it the advantage over others when distributing HDMI signals. It is equipped with HDMI 1.4a connectors. It is HDCP compliant, and HDTV compatible, with resolution up to 1920 x 1200 at 60 Hz, and 1080p.

Features

- HDCP compliant
- HDMI1.4a, supports 3D
- Supports Extended Display Identification Data (EDID) and Display Data Channel (DDC)
- HDTV compatible with high definition transmission resolution up to 1920 x 1200 at 60 Hz (maximum), supports 1080P
- LED indicators to show working status
- Antistatic case design to providing good performance protection
- Built-in gain compensation technology

Package contents

- 1 x CM-SP1210-HD 1x2 HDMI splitter
- 2 x removable mounting brackets
- 4 x screws
- 1 x power adapter (5 VDC)
- 1 x user manual

Notes: Please verify that the product and all the accessories are included. If not, contact your dealer.

Product appearance

The CM-SP210-HD has one HDMI input port and two HDMI output ports, as shown below.

Figure 1: CM-SP1210-HD 1x2 HDMI splitter

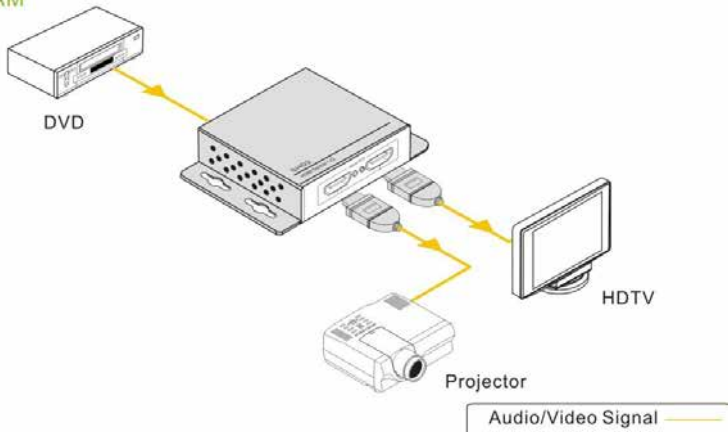


- (1) HDMI output ports connect with HDMI displays devices, such as HDTVs, or projectors.
- (2) Power indicator remains red when power is on.
- (3) Power port connects with a 5 VDC power adapter (included).
- (4) HDMI input port connects with an HDMI video source device, such as DVD player.

System connection

Figure 2: System diagram

DIAGRAM



Usage precautions

- The system should be installed in a clean environment and have proper temperature and humidity controls.
- All of the power switches, plugs, sockets, and power cords should be insulated for safety.
- All devices should be connected before powering on.

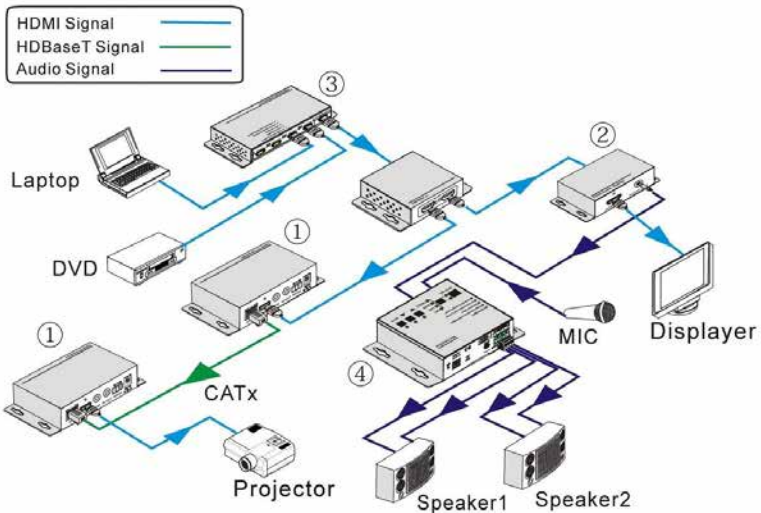
Connection procedure

To connect the splitter:

1. Connect HDMI from the source (such as Blue-ray DVD) to the HDMI input port on the HDMI 1x2 splitter using an HDMI cable.
2. Connect HDMI from either or both of the output ports on the splitter to display devices, a surround receiver, or an HDBaseT transmitter.
3. Connect the 5 VDC power adapter to the power input on the splitter.

Application solution

Figure 3: Solution diagram

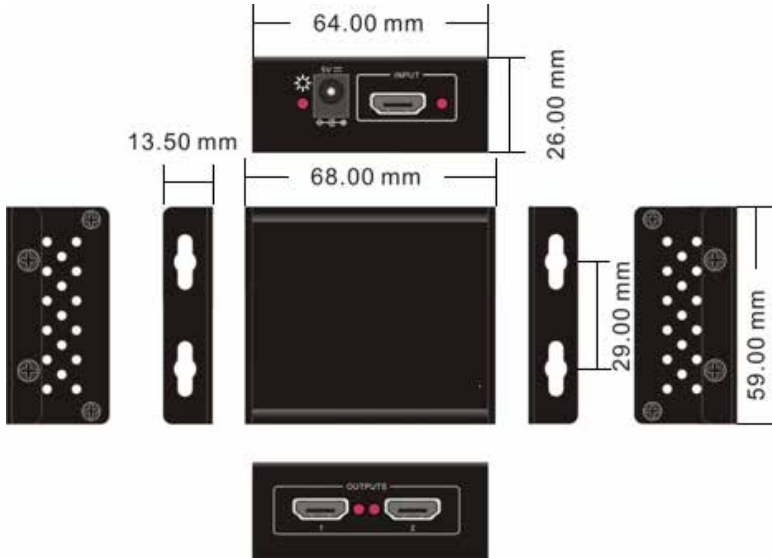


Specifications

Video Input		Video Output	
Input type	HDMI	Output	HDMI
Input connector	1 HDMI female	Output connector	2 HDMI female
Input level	T.M.D.S. 2.9 V / 3.3 V	Output level	T.M.D.S. 2.9 V / 3.3 V
Input impedance	50Ω	Output impedance	50Ω
Video general			
Gain	0 dB	Bandwidth	6.75 Gbit/s
Video signal	HDMI (or DVI-D)	Maximum pixel clock	165 MHz
Resolution range	Up to 1920 × 1200, or 1080p at 60 Hz	Switching speed	200 ns (max.)
Consumer Electronics Control (CEC)	Supports CEC wired infrared data pass-through using the HDMI 1.4a standard		
EDID and DDC Management	Supports Extended Display Identification Data (EDID) and Display Data Channel (DDC) data using DVI and HDMI standards, EDID and DDC signals are actively buffered.		
HDCP Management	Compliant with High-bandwidth Digital Content Protection (HDCP) using DVI and HDMI 1.4a standards.		
General			
Power supply	5 VDC adapter	Power consumption	10 W
Temperature	-4 to 158°F (-20 to 70°C)	Humidity	10% to 90%
Case dimension (W × H × D)	2.7 × 1.0 × 2.3 in (6.8 × 2.6 × 5.9 cm)	Product weight	.22 lb. (0.1 Kg)

Panel drawing

Figure 4: Panel drawing of the HDMI 1x2 splitter



Troubleshooting and maintenance

- If the POWER indicator does not work, ensure the power supply is connected properly. Check to be sure that a circuit breaker has not tripped and that power is available. If power is available and the splitter will not power on, contact Customer Service for assistance.
- No image on display.
 - Ensure that the display device is set to the correct input.
 - Ensure that the HDMI cables used for both the input source and the output displays are properly connected and are working. Test the HDMI cables directly from a source to display and ensure their operation.
- Ensure the power supply is properly grounded.

Safety operation guide

To guarantee the reliable operation of the equipment and personal safety, please follow the procedures listed below.

- The system must be grounded properly. Do not use two blades plugs. Ensure the supply voltage is in the correct range of 100~240 V and from 50~60 Hz.
- Do not locate the device in a place that is abnormally hot or cold or does not have proper temperature control and ventilation.
- The device generates heat when running. Its environment should be well ventilated to prevent damage caused by overheating.
- Disconnect power in humid weather, or when left unused for long periods.
- Before making or removing any connections to the device, ensure that the power supply has been disconnected.
- Do not attempt to open the enclosure of the equipment. DO NOT attempt any repairs. There are no user-serviceable parts inside. Any attempt to open the equipment will result in a complete void of any warranty and may result in serious injury or death.
- Do not splash any chemical substances or liquids on or around the equipment.

After-sales service

- If there appears to be problems when using the device(s), refer to the “Troubleshooting and maintenance” section in this manual.
- You can contact Customer Support at <http://support.clarecontrols.com>. Please be ready to provide the following information.
 - Product model number, version and serial number.
 - Detailed description of the trouble issues.
 - Description of all connections and third-party equipment being used.
- If, during the warranty period, the unit cannot be repaired, a suitable replacement will be issued. Replacement units will be comparable to the original. However, due to potential design changes over time, replacement units may not be identical to the unit replaced.

Warranty information

Clare Controls offers a three (3) year limited warranty on original Clare Controls components, from the date of shipment from Clare Controls. To view complete limited warranty details, including limitations and exclusions, www.clarecontrols.com/warranty.



Scan the code
to view product
warranty details.

