HDMI SPLITTER

HDMI Splitter 1x2 (8K60Hz)

Where every Moment comes Alive

ER5011SP2

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

Introduction

The **1×2 HDMI Splitter** allows one HDMI source device to be connected to **two HDMI displays simultaneously**, such as TVs, monitors, or projectors. It is designed to distribute a single high-definition signal to multiple screens while maintaining excellent image and sound quality.

This splitter also works as an **HDMI signal repeater**, making it ideal for long-distance cable installations by regenerating and stabilizing the signal. It supports ultra-high resolutions up to **7680 × 4320 @ 60Hz** for sharp, detailed output.

The unit includes **advanced EDID management** with **eight selectable EDID modes**, allowing users to optimize compatibility with different source and display devices. It also features a **built-in IR extension function** and can be used together with compatible HDMI 2.0 repeaters to remotely control the source device.

Features

- **HDR support** for improved brightness, deeper contrast, and more vivid, lifelike colours.
- **3D video compatibility**, allowing connection to 3D-enabled sources and displays.
- **CEC support on HDMI Output 1**, enabling compatible devices to control each other through a single remote.
- Supports **ultra-high-definition resolution up to 7680 × 4320 at 60Hz**, delivering extremely sharp and detailed images for professional and home entertainment applications.
- Provides a **maximum bandwidth of 40 Gbps**, ensuring smooth transmission of high-resolution, high-frame-rate video without lag or signal loss.
- Supports **8-bit, 10-bit, and 12-bit deep colour**, producing smoother colour transitions and more accurate colour reproduction.
- Built-in **IR extension function**, allowing you to remotely control the source device when used together with a compatible HDMI 2.0 repeater equipped with an IR receiver.
- Supports **EDID management**, improving compatibility between different source and display devices and ensuring optimal resolution and audio settings.
- Supports **IR-TX on HDMI Output 2**, enabling flexible infrared control setups.

Specifications

HDMI Resolution	Up to **7680 × 4320 @ 60Hz**
Video Format	8-bit / 10-bit / 12-bit Deep Color
Audio Format	DTS-HD, Dolby TrueHD, DTS, Dolby AC-3, DSD
Maximum Data Rate	40 Gbps
Input Cable Distance	≤ 5 m (8K@60Hz, HDMI 2.1 standard cable)
Output Cable Distance	≤ 5 m (8K@60Hz, HDMI 2.1 standard cable)
Maximum Working Current	0.7 A
Power Adapter	Input: AC 100–240V, 50/60Hz • Output: DC 5V / 2A
Operating Temperature	−15°C to +55°C
Dimensions (L × W × H)	154 × 60 × 24 mm
Weight	335 g

Application diagrams

Audio-visual conference   TV market   Home theater

Physical interface diagram
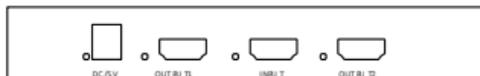
Interface	Functional description
RS232	RS232 port, serial port online upgrade
IR	IR TX Extension Interface
EDID	DIP switch, using for EDID management
DC/5V	5V Power Interface
OUTPUT1-2	HDMI output port 1-2
INPUT	HDMI input port

IR Extension description

There is an IR TX Extension port, it can work with an optional HDMI 2.0 repeater which works as IR-RX and IR extended via HDMI cable.

DIP EDID Switch Description

1 2 3 4	
X 0 0 0	copy output1 EDID only
X 0 0 1	Downward compatibility(1-2) outputs
X 0 1 0	4K/60Hz 2ch
X 0 1 1	1080p 3D 2ch
X 1 0 0	8K/60Hz 7.1ch
X 1 0 1	4K/30Hz 2ch
X 1 1 0	1080p 2D 2ch
X 1 1 1	1080p 2D 7.1ch

DIP 1 is used for upgrades, 1 is upgrading mode, 0 is normal working mode (switch down is 1, otherwise is 0)

Connection diagrams

Connection and Operation

1. Connect your **HDMI source device** (such as a DVD player, set-top box, or computer) to the **HDMI input** of the splitter using one HDMI cable.
2. Connect the **two HDMI output ports** of the splitter to your **displays (TVs/monitors/projectors)** using HDMI cables.
3. Plug the **5V/1A power adapter** into the splitter and switch on the power. The splitter will start working automatically.

The package includes

1. HDMI splitter   1pc
2. Power adapter   1pc
3. User manual   1pc
4: IR cable (optional)
5: HDMI repeater (optional)