



USER MANUAL

PSP-102U

Idea 2-Port True 4K Advanced HDMI
Splitter Solution





Package content:



Smart splitter



Power adapter

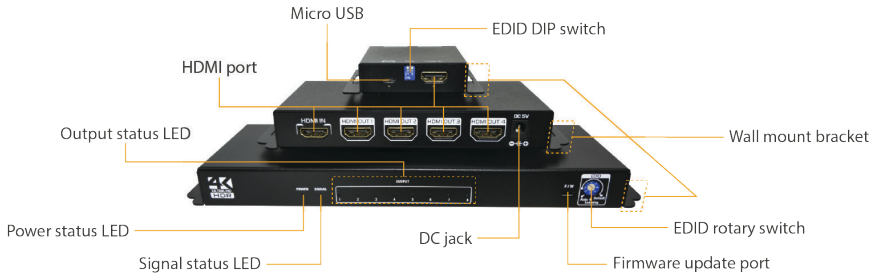


Velcro







Instruction Sheet

Physical views and features:





- 1 **Power LED:** Visible light indicates splitter is ready for use.
- 2 **Micro USB Port:** Input to connect splitter to the 5 V DC power supply.
- 3 **EDID Mode:** Choose splitter performance by adjusting DIP switch.

DIP Switch	Description
	Ultra HD (4K2K @ 60) - 8 / 10 / 12 bit 3D HDR video & 7.1 CH audio
	Ultra HD (4K2K @ 60) - 8 / 10 / 12 bit 3D HDR video & 2 CH audio
	Full HD (1080p @ 60) - 12 bit 3D video & 7.1 CH audio
	Learning EDID from output 1

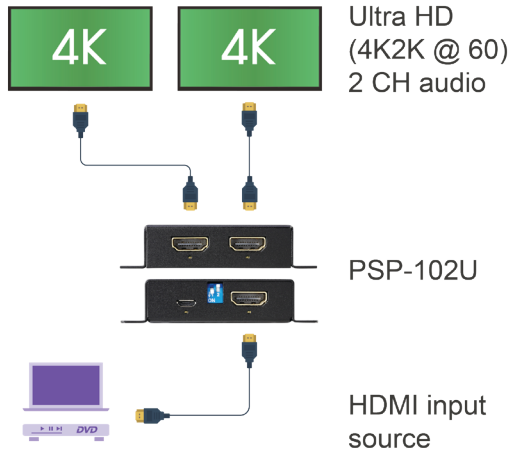
Off [↑] On [↓]

- 4 **Signal LED:** Visible light indicates input is recognized by splitter.
- 5 **HDMI-In:** Input to connect splitter to a HDMI source.
- 6 **Signal LED:** Visible light indicates input is recognized by splitter.
- 7 **HDMI-Out 1-2:** Outputs to HDMI-compatible displays.
(HDMI OUT1: EDID Learn Default)

Installation:

How to broadcast one HDMI signal to two HDMI-compatible displays?

- 1 Power down all devices intended for use, including the HDMI-compatible displays which will be connected to HDMI-Out 1-2.
- 2 Connect the HDMI-compatible displays to HDMI-Out 1-2.
- 3 Connect the splitter to a HDMI source, such as a Blu-ray Disc player, to the HDMI-In.
- 4 Connect the splitter to the supplied 5 V DC power supply.
- 5 Power on the connected HDMI-compatible displays.
- 6 Power on the connected HDMI source.



Troubleshooting:

To ensure proper video outputs from the splitter, the user needs to make sure the following splitter implementation requirements are satisfied:

- 1 Connected HDMI-compatible displays support Full HD videos.
- 2 Connected HDMI-compatible display with the lowest resolution must be connected to HDMI-Out 1.
- 3 Restart the splitter after every adjustment made to the EDID DIP switch.

If the splitter continues to project inaccurate video outputs, even when the requirements above are satisfied, the users are recommended to go through the steps below to troubleshoot this issue.

Set to Full HD (1080p @ 60) - 12 bit 3D video & 7.1 CH audio

- 1 Set the DIP switch to "[pin1, pin2] = [↑-↓]"
- 2 Restart the splitter.



Set to Learning EDID from output 1

- 1 Set the DIP switch to "[pin1, pin2] = [↓-↓]"
- 2 Restart the splitter.
- 3 Splitter will automatically learn EDID settings.



To update splitter firmware, follow the steps below (applicable in any mode):

- 1 Save the firmware file (.bin) and update software in a folder.
- 2 Connect the splitter to PC via Micro USB input.
- 3 Execute the update software and the splitter will automatically start updating its firmware.
- 4 When the "Success" notification appears, firmware update is complete and the update software will close automatically.
- 5 Restart the splitter and it will be ready for deployment.

Important Information:

- 1 HDR = High Dynamic Range
- 2 The video bandwidth of 4K2K @ 60 4:2:0 10 bits (HDR) is 384 MHz, and the 4K2K @ 60 4:4:4 8 bits is 594 MHz.
- 3 PSP-102U does not support the following functions:
 - 1 Resolution downscaling from 4K2K @ 60 4:2:2 to 1080p.
 - 2 4K2K @ 60 4:2:2 to 4K2K @ 60 4:2:0.
 - 3 Frame rate conversion.
- 4 PSP-102U can bypass 4K HDR data content but, CANNOT process it and make HDR content completely fit into 1080p.

Technical Specification:

PSP-102U Functions	
HDMI compliance	HDMI 2.0a
HDCP compliance	HDCP 2.2 / 1.4
Input	HDMI x 1
Output	HDMI x 2
HDMI connector	Type A (19-pin female)
Video bandwidth	Single-link 600 MHz (18 Gbps)
Video support	HDR 4K2K @ 60 (4:2:0 10 bits) / 4K2K @ 60 (4:4:4 8 bits)
Audio support	DTS-HD Master Audio, Dolby TrueHD, Dolby Digital, DTS, DVD-Audio, LPCM, SACD, MPCM
DIP switch	EDID mode selection
ESD protection	Human body level (± 15 kV air-gap discharge & ± 8 kV contact discharge)
Firmware update	Via Micro-USB port

PSP-102U Mechanical	
Dimension	
System	82 mm x 62 mm x 18 mm (3.2" x 2.4" x 0.7")
Package	198 mm x 137 mm x 74 mm (7.8" x 5.4" x 2.9")
Weight	
System	124 g (0.274 lb)
Package	169 g (0.373 lb)
Housing	Metal enclosure
Power supply	
Option 1	5 V / 1 A DC power supplied by power adapter
Option 2	Power supplied by externally connected device via micro-USB (e.g.. Standard USB 2.0 port on IAdea XMP-7300 True 4K media player)
Power connector	Micro-USB
Power consumption	2.5 W (max)
Operation temperature	0 ~ 40° C (32 ~ 104° F)
Storage temperature	-20 ~ 60° C (-4 ~ 140° F)
Humidity	20 ~ 90 % RH (no condensation)
Accessory	Velcro, Instruction sheet



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