

Combo DisplayPort/HDMI™ Converter with Audio Extract



User Manual

VER 1.1

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, lighting 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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1. Introduction

Due to a built-in DisplayPort/HDMI™ combo connector, the converter allows for either HDMI™ or DisplayPort connection on input and output ports, for flexible installation and mixed/matched display configurations between both ends. Video resolution is up to 8K30, 4K120 for DP signal. It supports advanced EDID management (TV, 2.0CH, 5.1CH), and can be set via the EDID dial switch on the front panel easily.

2. Features

- ☆ DisplayPort/HDMI™ combo connector supports both DisplayPort and HDMI™ video interfaces
- ☆ Compliant with HDCP 2.3, DisplayPort 1.4 ALT Mode
- ☆ Video bandwidth is up to 32.4Gbps (DP), 18Gbps (HDMI™ IN) and 48Gbps (HDMI™ OUT)
- ☆ Video resolution is up to 8K@30 for DP input, 4K@60 for HDMI™ input
- ☆ Automatic recognition of DP/HDMI™ on input and output ports
- ☆ Four conversion of DP/HDMI™ are supported: DP to DP, DP to HDMI™, HDMI™ to DP, HDMI™ to HDMI™
- ☆ Abstract the audio signal from HDMI™/DP source to output on optical or L/R audio out port
- ☆ DP/HDMI™ Audio: LPCM 7.1CH, Dolby True HD, DTS-X, ATMOS and DTS-HD Master
 - Optical Audio: LPCM 2.0, Dolby Digital 2/5.1CH, DTS 2/5.1CH
 - Analog Audio: LPCM 2.0
- ☆ HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through
- ☆ Support CEC pass-through
- ☆ Compact design for easy and flexible installation

3. Package Contents

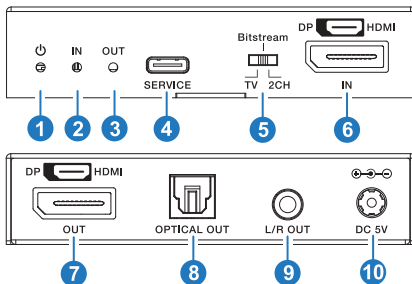
- ① 1× Combo DisplayPort/HDMI™ Converter with Audio Extract
- ② 1× 5V/1A Power Adapter
- ③ 1× User Manual

4. Specifications

Technical	
HDMI™ Compliance	HDMI™ 2.0b (IN) / HDMI™ 2.1b (OUT)
DP Compliance	DisplayPort 1.4 ALT Mode
HDCP Compliance	HDCP 2.3/2.2/1.x
Video Bandwidth	HDMI™ IN: 18Gbps HDMI™ OUT: 48Gbps DP: 32.4Gbps
Video Resolution	DP Input & DP/HDMI™ Output: 640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x1024p60Hz, 1360x768p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1680x1050p60Hz, 1920x1200p60Hz, 480i60Hz, 480p60Hz, 576i50Hz, 576p50Hz, 720p50Hz, 720p60Hz, 1080i50Hz, 1080i60Hz, 1920x1080p24/25/30/50/60/100/120Hz, 3840x2160p24/25/30/50/60/100/120Hz, 4096x2160p24/25/30/50/60/100/120Hz, 5120x2160p24/25/30/50/60/100/120Hz, 7680x4320p24/25/30Hz HDMI™ Input & DP/HDMI™ Output: 640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x1024p60Hz, 1360x768p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1680x1050p60Hz, 1920x1200p60Hz, 480i60Hz, 480p60Hz, 576i50Hz, 576p50Hz, 720p50Hz, 720p60Hz, 1080i50Hz, 1080i60Hz, 1920x1080p24/25/ 30/50/60/100/120Hz, 3840x2160p24/25/30/50/60Hz, 4096x2160p24/25/30/50/60Hz

Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	8/10/12-bit
Audio Format	DP/HDMI™ Audio: LPCM 7.1CH, Dolby True HD, DTS-X, ATMOS and DTS-HD Master Optical Audio: LPCM 2.0, Dolby Digital 2/5.1CH, DTS 2/5.1CH Analog Audio: LPCM 2.0
Audio Sampling Rate	192kHz
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	1× DP/HDMI™ IN [DP/HDMI™ Combo Connector]
Output	1× DP/HDMI™ OUT [DP/HDMI™ Combo Connector] 1× L/R AUDIO OUT [3.5mm stereo mini-jack] 1× OPTICAL OUT [S/PDIF]
Control	1× SERVICE [USB-C, update port]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	90mm [W] × 72mm [D] × 20mm [H]
Weight	166g
Power Supply	DC 5V/1A
Power Consumption	2.4W (Max)
Operating Temperature	32°F ~ 104°F / 0°C ~ 40°C
Storage Temperature	-4°F ~ 140°F / -20°C ~ 60°C
Operating Humidity	20%~80% relative humidity, non-condensing
Storage Humidity	10%~90% relative humidity, non-condensing

5. Operation Controls and Functions



No.	Name	Function Description
1	Power LED	The green LED lights up, when the device is powered on.
2	IN LED	The green LED lights up, when the DP/HDMI IN port is connected to a source device.
3	OUT LED	The green LED lights up, when the DP/HDMI OUT port is connected to a display device.
4	SERVICE	USB-C port, used for firmware update.
5	TV/Bitstream /2CH dial switch	Use for EDID setting. TV: Copy EDID form TV. Bitstream: Copy TV video EDID + 5.1CH audio EDID. 2CH: Copy TV video EDID + 2.0CH audio EDID.
6	DP/HDMI IN	DP/HDMI signal input port, connected to a source device such as computer.
7	DP/HDMI OUT	DP/HDMI signal output port, connected to a display device such as monitor.

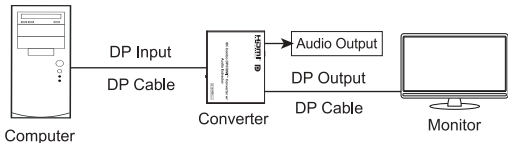
No.	Name	Function Description
8	OPTICAL OUT	Optical audio output port, connected to audio device such as audio amplifier.
9	L/R OUT	Analog audio output port, connected to audio device such as speaker.
10	DC 5V	DC 5V/1A power input port.

6. DisplayPort/HDMI Combo Connector

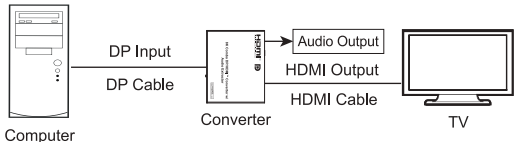
DisplayPort/HDMI combo connector supports both DisplayPort and HDMI video interfaces, designed for flexible installation and mixed/matched display configurations.

Four conversion of DP/HDMI are supported with various resolutions:

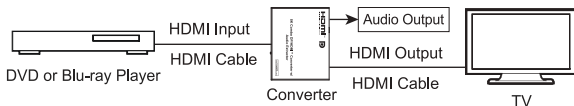
DP to DP (Up to 8K@30Hz):



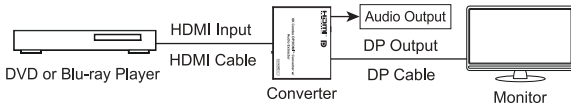
DP to HDMI (Up to 8K@30Hz):



HDMI to HDMI (Up to 4K@60Hz):



HDMI to DP (Up to 4K@60Hz):



Note:

When the DP/HDMI port is used as HDMI input or output channel, please plug in the HDMI cable on the right side of the port (as shown below).

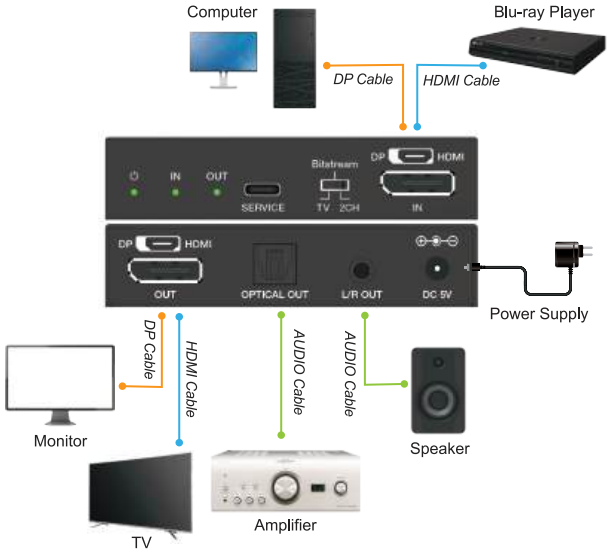


Automatic Recognition:

DP/HDMI signal can be recognized automatically, when the DP/HDMI source or display device is connected to the input or output port.

For example, if a DP source device is connected to the input port, and the DP signal will be recognized and converted to output.

7. Application Example



HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

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