



HDMI Distributor

User Manual

Model : HAE01

4K 60Hz HDMI 1 In 2 Out Audio Extractor(HDMI/SPDIF/Stereo)
with Up/down Scaler



Introduction

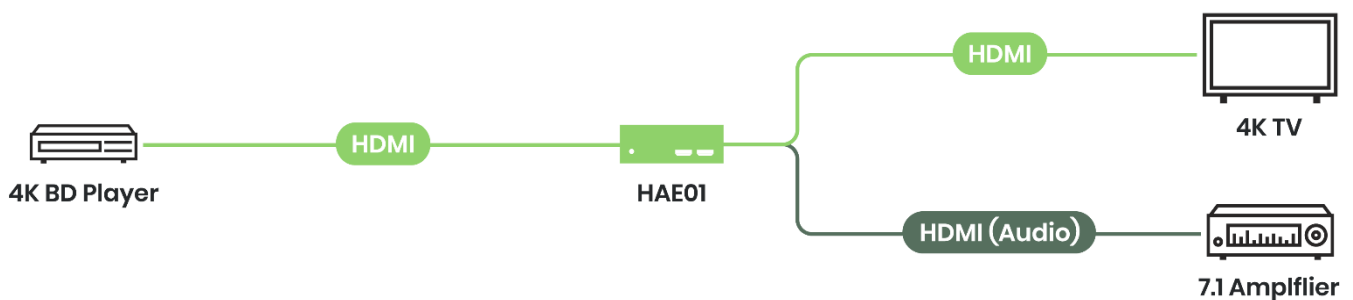
HAE01 is an HDMI multifunctional tool allowing you to extract HDMI audio to integrate with external audio equipment, such as amplifiers, AV receivers, etc. The video scaling function can up/down scale the resolution from 1080p to 4K, or 4K to 1080p, saving cost on a new HDMI monitor. With the built-in 5-way joystick switch, you can operate and setup all the functions in an easy way.

Features

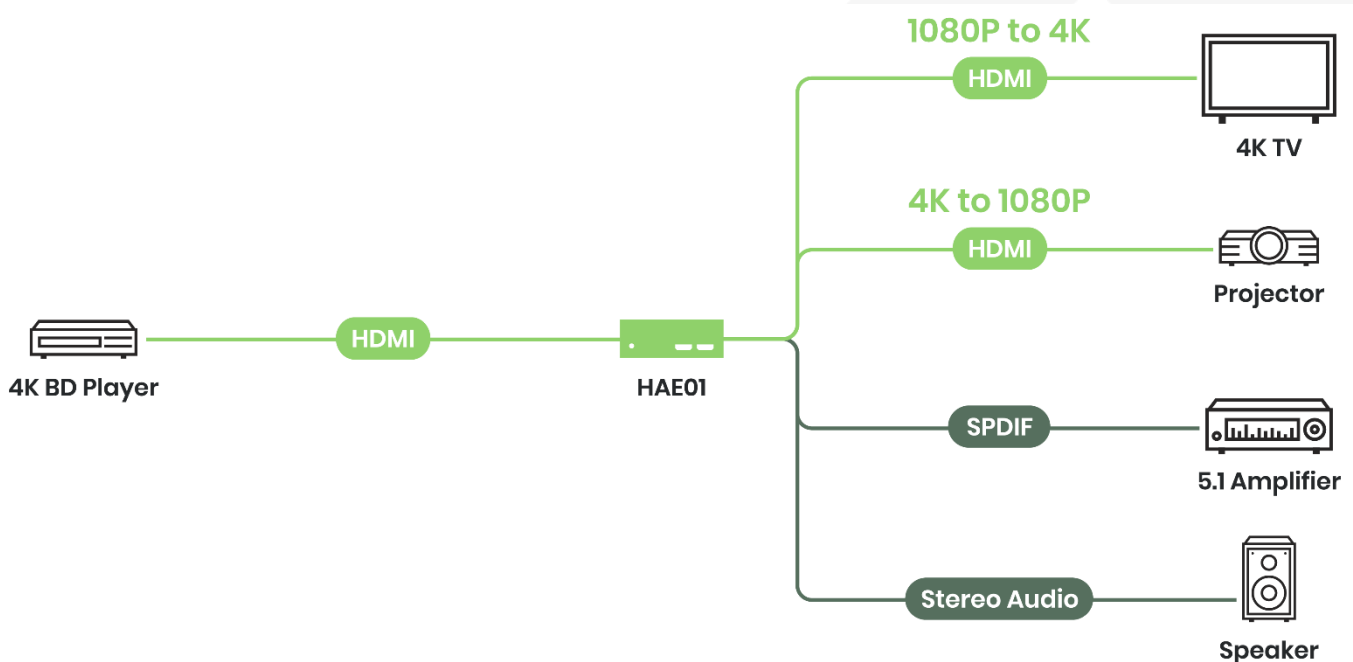
- Resolution up to 4K@60Hz 4:4:4. Built-in dual HDMI outputs.
- Built-in Toslink (digital audio) and 3.5mm phone jack (analog audio) interfaces.
- Supports resolution up/down scaling function.
- Supports chroma subsampling function, 4K HDMI 4:4:4/ 4:2:2 to 4:2:0 conversion.
- Supports HDCP 2.2 to 1.4 conversion.
- Supports HDMI audio extract for integrating with external audio equipment.
- Supports OSD menu to check functions & modes.
- Supports EDID management.

Installation View

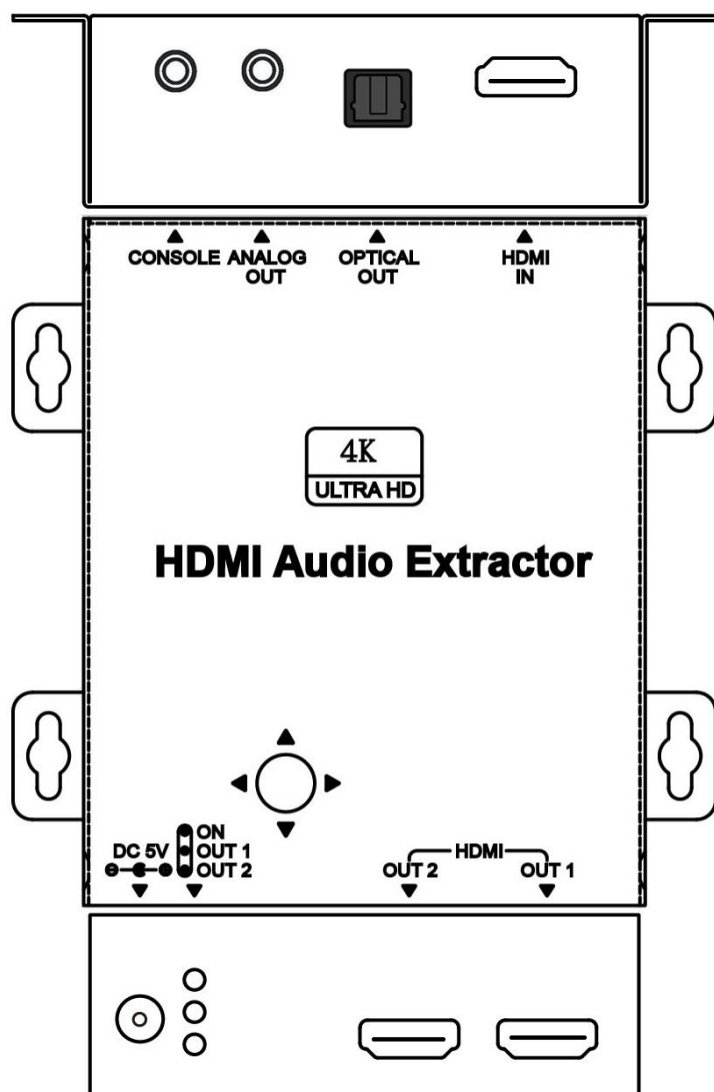
4K HDMI Distribution



4K HDMI Up/Down Scaler with Audio Extractor



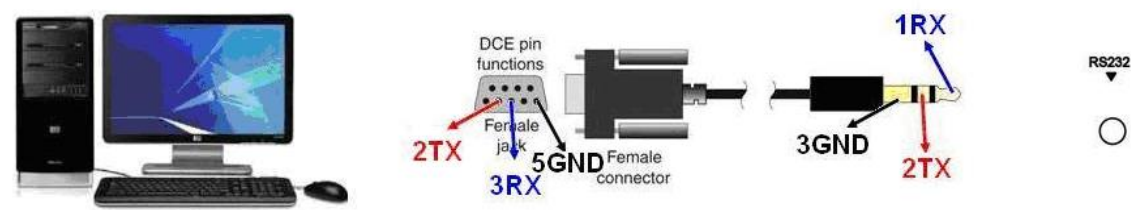
Panel View



LED Indication

LED Name	LED Color	Function
Power	GREEN On/ Off	Power On/ Off
Output 1	BLUE On/ Off	Output 1 linked/ unlinked
Output 2	RED On/ Off	Output 2 linked/ unlinked


RS232 Define



DB9(F)/3.5mm STEREO PHONE JACK DB9(F)/3.5mm STEREO PHONE

RS232		3.5 mm Phone Jack	
Footprint	Define	Footprint	Define
Pin 2	TX	Pin 1	RX
Pin 3	RX	Pin 2	TX
Pin 5	GND	Pin 3	GND

5 way Joystick Switch



SW	Function
▲	Up
▼	Down
◀	Left
▶	Right
○	Confirm

OSD Menu

Main Menu	Submenu	Description
OUTPUT 1 MODE	NORMAL	Output video same as input video
	UPSCALE	1080P to 4K
	EXIT	Exit submenu
OUTPUT 1 SUBSAMPLING	NORMAL	Output color subsampling same as Input
	4:4:4 → 4:2:0	Color subsampling from 4K 4:4:4/4:2:2 to 4:2:0
	EXIT	Exit submenu
OUTPUT 1 AUDIO MODE	NORMAL	Enable audio output
	MUTE	No audio output
	EXIT	Exit submenu
OUTPUT 2 MODE	AUDIO ONLY	Output audio only
	DOWNSCALE	4K to 1080P
	SPLITTER	Output signal same as OUTPUT 1
	EXIT	Exit submenu
EDID (Video)	AUTO	Use output 1 EDID as priority. If output 1 and 2 not connected with TV, Default to 4K
	OUTPUT 1	Use EDID of output 1
	OUTPUT 2	Use EDID of output 2
	PRESET 4K	Default to 4K 60Hz 8bit
	PRESET 1080P	Default to 1080P 60Hz 8bit
	EXIT	Exit submenu
EDID (Audio)	AUTO	Use output 2 as priority, If output 1 and 2 not connected with TV, Default to LPCM 2.0
	OUTPUT 1	Use EDID of output 1
	OUTPUT 2	Use EDID of output 2
	MULTI	Default to AC3 and DTS Audio format
	LPCM 7.1CH	Default to LPCM 7.1
	LPCM 2CH	Default to LPCM 2.0
	EXIT	Exit submenu
MISCELLANEOUS	Main MCU : Vx.xx	Display firmware version
EXIT		Exit submenu

Trouble Shooting

1. CEC function only works at the output 1.
2. Up/down scale mode only support resolution conversion, refresh rate is not able to be changed.
3. It's recommended using Premium certified HDMI cable Under HDMI 2.0 mode.

Package Includes

No.	Item	Amount
1	HAE01	x 1 pc
2	DC5V 1A Power Adapter	x 1 pc
3	Mounting Screw pack	x 2 bags

Specification

ITEM NO.	HAE01
Support	
Compliance	HDMI 2.0, HDCP 2.2, 3D, HDR
Max. Video Resolution	4K@60Hz 4:4:4
Video Bandwidth	18 Gbps
Audio Format	7.1 LPCM 192KHz, Dolby TrueHD, DTS-HD MA
Ports & Interfaces	
Video Input	1 x HDMI Type A
Video Output	2 x HDMI Type A
Digital Audio	1 x TOSLINK
Analog Audio	1 x (3.5mm) Phone Jack
RS232 Interface	1 x DB9 Female / 3.5mm Stereo Phone Jack (Firmware Update)
Power	
Power Supply	DC 5V 1A Regulated
Power Consumption	4W
Ambient Temperature	
Operation	-10 to 45°C
Storage	-30 to 70°C
Humidity	Up to 95%
Physical Characteristics	
Dimensions	109.6 x 110.5 x 36mm
Weight	270g