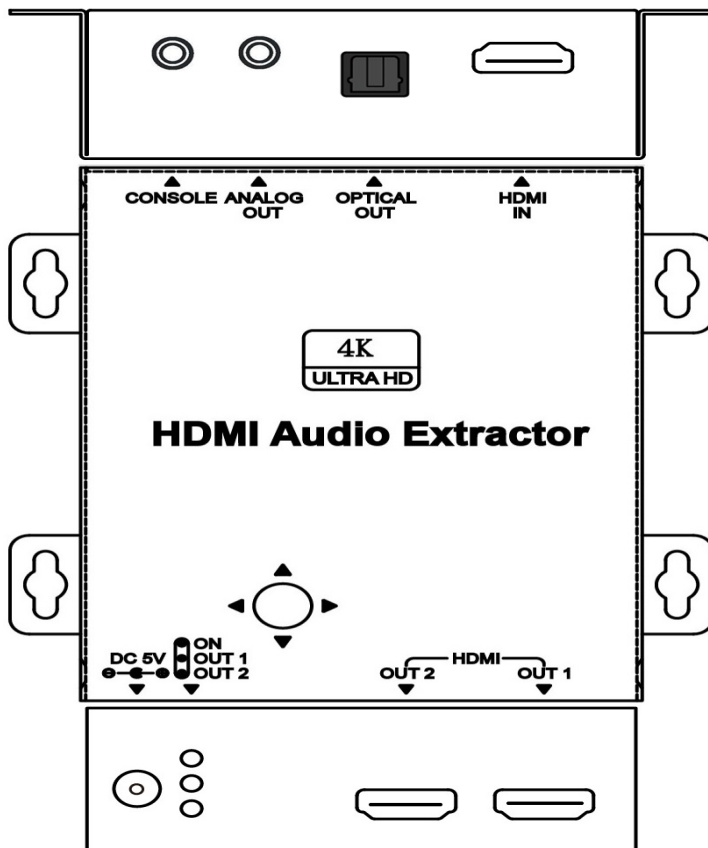# ZUUM

HAE-4K

HDMI 4K 1 In 2 Out Splitter with Audio Extractor and Up/Down Scaler

HAE is a multifunction device. You can extract both digital optical S/PDIF (Toslink) and stereo analog audio signal that can be used by an AV Receiver or amplifier. This device will also act as a two way HDMI splitter with a bonus of being able to take a 1080p signal and upscale to 4K or take 4K and downscale to 1080p. Full OSD operation with joystick allowing for easy EDID management.

Features:

> Supports HDMI 2.0, HDCP 2.2, 4K@60Hz 4:4:4 18Gbps, 3D, HDR

> Able to extract 4K HDMI audio and output to AV Receiver

> Route HDMI audio simultaneously via S/PDIF and 3.5mm stereo audio outputs

> HDMI audio output: LPCM7.1@192Khz, Dolby TrueHD, DTS-HD MA

> Supports uncompressed audio such as LPCM

> Supports 1080p to 4K upscale and 4K to 1080p downscale

> Supports 4K6G 4:4:4/4:2:2 convert to 4K3G 4:2:0

> Supports CEC pass-through

> Built in EDID management and OSD operation

Panel View:

Joystick Menu Operation:

SW1	Function
▲	Up
▼	Down
◄	Left
►	Right
○	confirm

MENU:

Main Menu	Sub Menu	Sub Menu Function
OUTPUT 1 MODE	NORMAL	Output video same as input Video
	UPSCALE	1080P Upscale to 4K
	EXIT	Exit Sub Menu
OUTPUT 1 SUBSAMPLING	NORMAL	Output color subsampling same as Input
	4:4:4 →4:2:0	4K6G 4:4:4/4:2:2 convert to 4K3G 4:2:0
	NORMAL	Output color subsampling same as Input
OUTPUT 1 AUDIO MODE	OUTPUT 1 AUDIO MODE	Audio Selection
	NORMAL	audio output
	MUTE	No audio output
	EXIT	Exit Sub Menu
OUTPUT 2 MODE	AUDIO ONLY	Audio output only
	DOWNSCALE	4K downscale to 1080P
	SPLITTER	Distribution Mode（Output signal same as OUTPUT 1）
	EXIT	Exit Sub Menu
EDID(VIDEO)	AUTO	Use OUTPUT 1 EDID as priority, if OUTPUT 1 and OUTPUT 2 not connected with TV, Default as 4K
	OUTPUT 1	Use OUTPUT 1 EDID
	OUTPUT 2	Use OUTPUT 2 EDID
	PRESET 4K	Default 4K 60Hz 8bit
	PRESET 1080P	Default 1080P 60Hz 8bit
	EXIT	Exit Sub Menu
EDID(AUDIO)	AUTO	Use OUTPUT 2 as priority, If OUTPUT 1 and OUTPUT 2 not connected with TV, Default as LPCM 2.0
	OUTPUT 1	Use OUTPUT 1 EDID
	OUTPUT 2	Use OUTPUT 2 EDID
	5.1 AUDIO	Default LPCM 5.1
	2.0 AUDIO	Default LPCM 2.0
	EXIT	Ext Sub Menu
MISCELLANEOUS	Main MCU : Vx.xx	Show firmware version
EXIT		Exit MENU

Color	LED
GREEN	Power
BLUE	Output 1
RED	Output 2

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

Trouble Shooting:

1. CEC function only works Output 1

2. Any HDMI output with HDCP 2.2 compatibility issues will cause no video output. Under HDCP 2.2 mode any one monitors HDCP authorization fails it will cause no video status and other connected monitor will fail.

3. Up/Down scale mode only supports resolution conversion, frequency will not be changed

4. Under HDMI 2.0 mode you need to use Premium certified HDMI cables

Package Contents:

- HAE x 1
- Power adapter DC5V 1Amp x 1
- DB9(F)/3.5mm Stereo Phone Jack x 1
- Product Instructions

General Specifications:

Model	HAE-4K
HDMI Input	HDMI Type A x 1
HDMI Output	HDMI Type A x 2
HDMI Video Support	Up to 4096x2160/60Hz / 4:4:4 (18Gbps), 3D, HDR
HDMI Audio Support	Up to 7.1 LPCM 192Khz / Dolby TrueHD / DTS-HD MA
Digital Audio Connector	Toslink Type x 1
Analog Audio Connector	3.5mm Phone Jack x 1
Firmware Update Interface	DB9(F) / 3.5mm Stereo Phone Jack
Power Supply	Regulated DC5V / 1A
Power Consumption	4 watt
Temperature	Operation: 14°F ~ 113°F, Storage: -22°F ~ 158°F, Humidity up to 95%
Dimensions inches	4.31" x 4.33" x 1.41"
Weight lbs.	.59

CE FC ✓ *RoHS*

Do you Need Technical Support?

ZUUM is proud to offer free technical support to ensure your product is operating correctly.

If you are experiencing difficulties setting up this product, please call us for assistance 1-888-861-7351 or visit www.zuum.life