



IN TUNE WITH TECHNOLOGY
SINCE 1937

HDMI

HDMISS01
1 x 2 HDMI Scaler/Splitter with Digital Audio Break Out
4K with HDCP 2.2 Support

User Guide



Important Safety Notice

Thank you for purchasing this Antiference HDMI distribution product. Please read the following instructions carefully and retain for future reference.

Please pay careful attention to the following safety considerations:

1. Do not place any items on the device
2. Ensure no liquids are on or near the device as splashes may damage the unit
3. For cleaning, use a damp cloth only without solvents
4. Do not attempt to open the case as there is a danger of electric shock
5. Repairs should be carried out by a qualified technician
6. Place the unit in a well ventilated area to prevent overheating
7. Carry out the installation before connecting the device to a source of power
8. Use only the supplied power supply as 3rd party products may damage the product

Introduction

The HDMISS01 is a multifunctional HDMI product.

It allows a single 4K source to be split to 2 screens. It can extract audio via digital optical S/PDIF (Toslink) and stereo analogue audio signal for use with an amplifier or AVR.

Special features include upscale from 1080p to 4K or Downscale 4K signal to 1080p. It can be configured to allow 4K to be sent to 1 output and 1080p to the other output. Set up is simple and is achieved by using the 5 way joystick and On Screen Display (OSD on output 1 only).

An EDID management function is also in place and is accessed via the set-up menu. It is a perfect solution for integrating a 4K source such as SKY Q into a 1080P HD modulated system or enabling a 1080p TV to receive 4K content in a matrix installation.

HDMI Modulated Systems

It is possible to use this product to provide 4K content and HD content to the same system. For example a SKY Q set-top-box could provide 4K to a main TV and downscale using the HDMISS01 to 1080p and be connected to an Antiference HDMI modulator. The signal can then be distributed over an RF coax cable network to a number of other TV sets.

For more information on this please contact our technical department on support@antiference.co.uk



Features

- Supports HDMI 2.0, HDCP 2.2, 4K@60Hz 4:4:4 18Gbps (6Gbps per colour) 3D & HDR.
- Extracts 4K HDMI audio and outputs to a multi-channel digital or analog audio signal.
- Allows you to 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 1080p to 4K upscale and 4K to 1080p downscale.
- Supports 4K 4:4:4 convert to 4:2:0.
- Audio output support up to 7.1 surround
- Supports CEC pass-through
- Built in EDID management, 2/5.1/7.1 patched EDID.
- Built in 5 way joystick for full OSD operation.
- Compatible with Antiference HDMI modulators

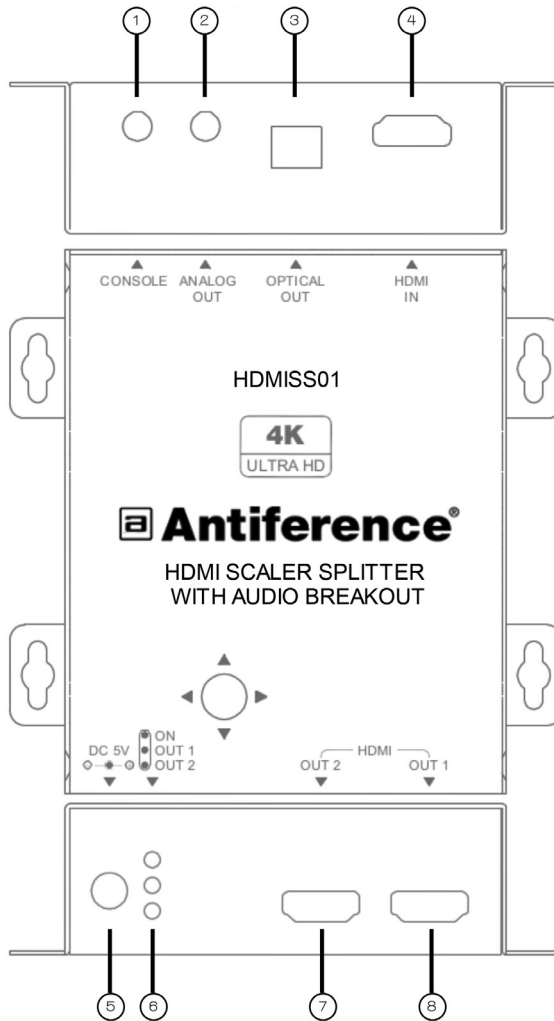
Package Contents

X1 HDMISS01
X1 5VDC 1A Power Supply
X1 DB9(F)/3.5mm STEREO PHONE JACK
X2 Mounting Screw Pack



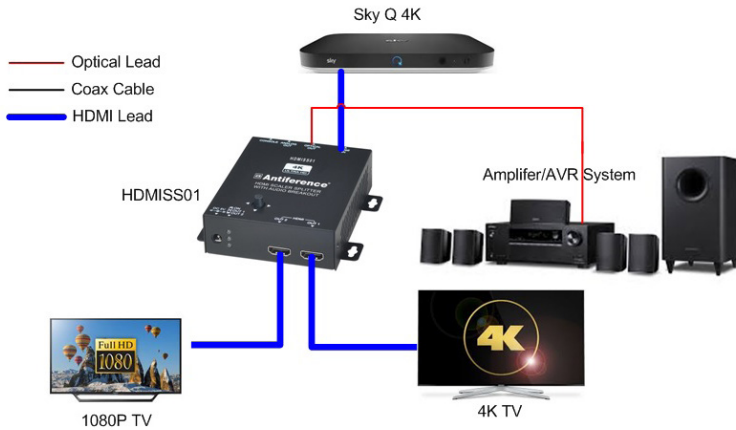
Panel Layout

1. PC connection for firmware updates
2. Analogue audio output
3. Digital audio output
4. HDMI input
5. DC power input
6. Status LED panel
7. HDMI output 2
8. HDMI output 1

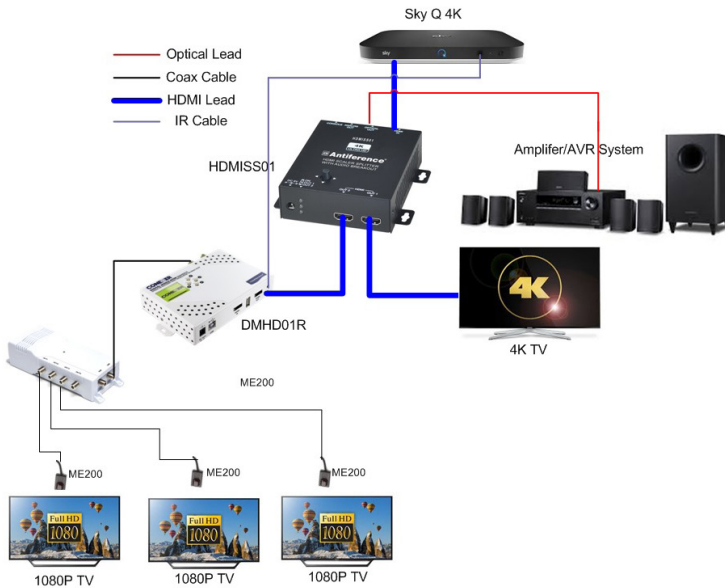


Applications

Application splitting to 1080p TV & 4K TV with digital audio break-out:



Application with Antiference HDMI Modulator:



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 colour sub-sampling same as input
	4:4:4 - 4:2:0	4K 4:4:4 converts to 4K 4:2:0
	NORMAL	Output colour sub-sampling 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

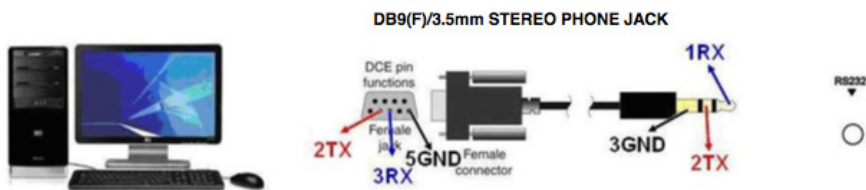
EDID(AUDIO)	AUTO	Use OUTPUT 2 as priority, If OUTPUT 1 and OUTPUT 2 not connected with TV, Default as LPCM 2.0
	OUTPUT 1	Use OUTPUT 1 EDID
	OUTPUT 2	Use OUTPUT 2 EDID
	5.1 AUDIO	Default LPCM 5.1
	2.0 AUDIO	Default LPCM 2.0
	EXIT	Ext Sub Menu
EXIT & SAVE		Save setting and Exit MENU

LED Indicators

Colour	LED
GREEN	Power
BLUE	Output 1
RED	Output 2

RS232 Connection

Should a firmware update be required, this can be carried out by the user using the 3.5mm stereo jack to RS232 cable. In this case instructions for this process will be provided by the Antiference Technical department.



DB9(F)/3.5mm STEREO PHONE JACK

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

Notes

1. CEC function only works output 1.
2. Any HDMI output with HDCP2.2 compatible issues will cause no HDMI video output. Under HDCP 2.2 mode, any one monitor which fails HDCP authorization will cause other connected monitors to also fail.
3. Up/down scale mode only supports resolution conversion - the frequency will not be changed.
4. When using HDMI 2.0 mode a Premium certified HDMI cable must be used.

Technical Specifications

ITEM NO	HDMISS01
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 updated Interface	DB9(F)/3.5mm STEREO PHONE JACK
Power Supply	Regulated DC5V / 1A
Power Consumption	4W
Temperature	Operation:-10~45°C, Storage:-30~70°C, Humidity: up to 95%
Dimension	H 40mm x W 110mm (includes mounting tabs) x D 110mm
Weight	250 grams

Declaration of Conformity

We, ANTIFERENCE LIMITED herewith declare that the HDMI splitter complies with all essential requirements and any other applicable conditions set forth on directive 1999/05/CE.

According to the WEEE (Waste Electrical and Electronic Equipment) EU Directive, do not dispose of this product as household waste or commercial waste. Waste Electrical and Electronic Equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

RoHS   

