

# HDMI 2.0a splitter with scaling function

# HUS-0102E

## 2-way HDMI 2.0a splitter with scaling function

- 4K@60 4:4:4 18Gbps
- 2way HDMI splitter HUS-0102E
- Downscaling and HDCP revision conversion
- Supports HDR (High Dynamic Range)
- Supports xvYCC (x.v.Color) and Deep Color
- Automatic EDID analysis and emulation
- Screw-lock DC connector
- Brackets to fix splitter on wall or ground



## Introduction

The HUS-0102E splitter is able to automatically downscale and convert HDCP revision according to EDID and HDCP of connected display equipment.

The HUS-0102E supports maximum 4K@60 4:4:4 (18Gbps) input.

The splitter is able to output to displays with different specifications as "4K@60 4:4:4 (18Gbps)/HDCP2.2" and "1080p@60/HDCP1.4" at the same time by automatically converting the format according to each attached display equipment.

It is able to output at each displays optimal resolution even if displays with different specifications as 4K (HDCP2.2) and full HD (HDCP1.4) are connected.

Premium Ultra HD content with HDR (High Dynamic Range), supporting both xvYCC (x.v.Color) and Deep Color as well as up to 7.1ch surround sound is also supported.

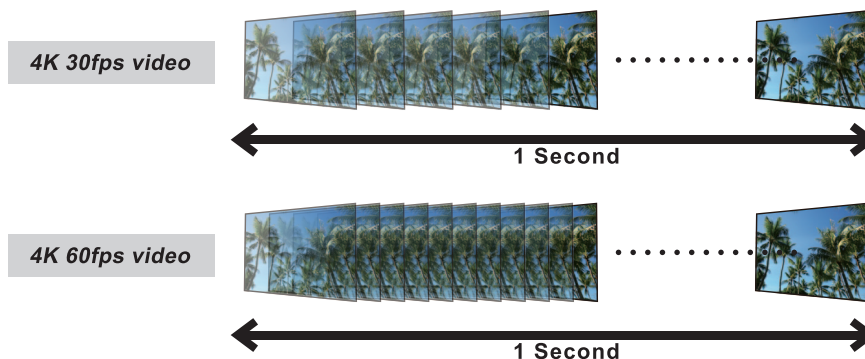
Automatic EDID analysis mode and EDID emulation are also supported.

6 preset EDID configurations, automatic EDID analysis mode and EDID acquisition from Port 1 can be selected by DIP switch providing a versatile range of settings and preventing display losses due to cable disconnection or power loss.

The HUS-0102E also features a screw-lock DC connector, preventing accidental disconnections especially from heavy sound vibrations. Cascade connection is supported up to 2 levels with a maximum limit of 16 sink devices (\*1). By enabling output to displays with different specifications (4K and Full HD etc.) at each displays highest resolution this 4K HDMI splitter with automatic downscaling can be utilized at exhibitions, events and for advertisement.

## 4K@60 4:4:4 18Gbps

Delivers 4K Ultra HD videos (3840x2160) at up to 60 frames per second from a wide range of 4K formats such as 4K/60p/4:2:2/36bit, 4K/60p/4:4:4/24bit, 4K/24p (30p)/4:4:4/36bit.



Smooth playback of 4K videos with double the amount of frames in 1 second.

## Supports xvYCC (x.v.Color) and Deep Color

Wide color gamut due to xvYCC (x.v.Color), higher video signal processing due to Deep color and up to 7.1ch surround sound are supported.

## HDCP 2.2 / 1.4

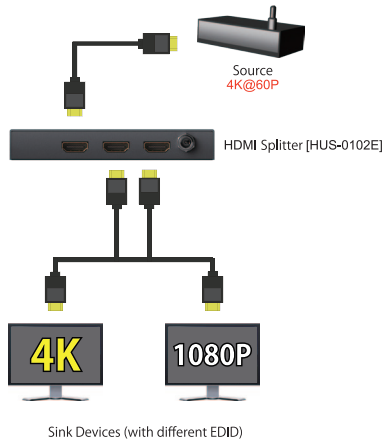
Supports premium 4K video contents requiring HDCP 2.2. Also backward compatible with HDCP 1.4 protected media contents.

## Brackets to fix splitter on wall or ground

Metal brackets to fix splitter on wall or ground are included.

## Downscaling and HDCP revision conversion

When connecting a 4K@60 4:4:4 (18Gbps) source to display equipment with different resolution and HDCP versions as "4K@60 4:4:4 (18Gbps)/HDCP2.2" or "1080p@60/HDCP1.4" the splitter will automatically adjust the output and display the content at each displays' highest resolution.

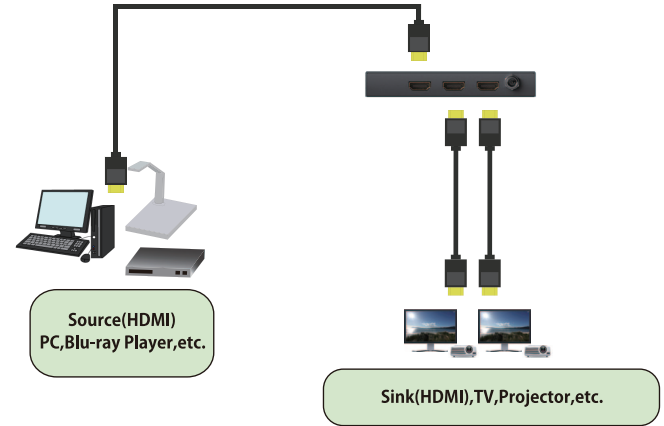


## Automatic EDID analysis and emulation

6 preset EDID configurations, automatic EDID analysis mode and EDID acquisition from Port 1 can be selected by DIP switch providing a versatile range of settings and preventing display losses due to cable disconnection or power loss.



## Connection Diagram



## HDR (High Dynamic Range)

Supports HDR 4K videos to display finer details with a higher contrast ratio.



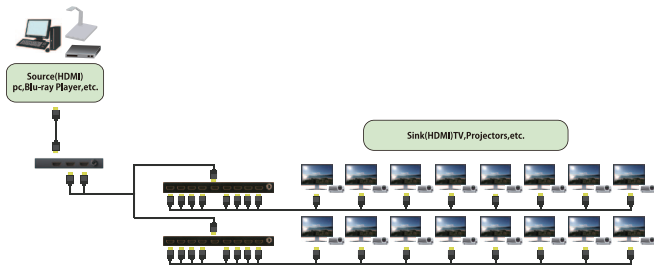
Normal output

HDR output

## Cascade connection supported up to 2 levels

Cascade connection is supported up to 2 levels with a maximum limit of 16 sink devices when use with HUS-0108E. Splitter can be utilized with great effect during exhibitions, events or at superstores.

\* When distributing 4K @ 60 video, connect the HDMI cable from the source to the sink so that the length is 10 m or less. It has been verified with our handling HDMI cable.



## Screw-lock type DC connector

Screw-lock type DC connector plug provides a tight, secure connection preventing power loss resulting from accidental disconnections.



## Specifications

Model	HUS-0102E
HDMI	Ver2.0a
HDCP	2.2, 1.4 compliant
Video format compatibility	480i/480p/720p/1080i/1080p60/1080p60 3D (*2) /4K UHD@30 (*2) / 4K UHD@60 (*2) / 4K DCI@60 (*2) 4K UHD@60 and 4K DCI@60 at YPbPr 4:4:4 24bit YPbPr 4:2:2 36bit color depth 4K UHD@60 and 4K DCI@60 HDR at YPbPr 4:2:0 30bit color depth
VESA (PC) resolution compatibility (*3)	SVGA (800*600), XGA (1024*768), WXGA(1280*768, 1280*800), FWXGA (1360*768, 1366*768), SXGA (1280*1024), WXGA+(1440*900), WSXGA+ (1680*1050), Full HD(1920*1080), WUXGA (1920*1200)
Max bandwidth	18Gbps
Max transfer rate	600MHz
Max connections (HDMI sink devices)	16 ※with HUS-0108E
EDID	6 preset EDID configurations, automatic EDID analysis mode and EDID acquisition from Port 1
Input ports	HDMI x1
Output ports	HDMI x 2
HDMI connector type	Type A
Dimensions (※Excluding protrusions)	120 (W) x 64 (D) x 18.1 (H) mm
Weight	Approximately 190 g
Power supply	DC 5V 4A
Power consumption	Max2W
Operating/Storage temperature	0°C~ 40°C/-20°C~ 60°C
Operating humidity	20% ~ 90% (No condensation)
Package contents	HUS-0102E, AC adapter, mounting bracket x2, Screw x4, manual
Certification	FCC/CE/RoHS/PSE(ACadaptor)

\*1 Format conversion by automatic recognition is only supported for 4K and 1080p

\*2 Display is not guaranteed on all HDMI sink devices.

\*3 Not supported when outputting from PC.

※ARC and CEC are not supported.

※The following functions are not supported.

① 4K2K @ 60 Downscaling from 4: 2: 2 to 1080P.

② Scaling from 4K2K @ 60 4: 2: 2 to 4K2K @ 60 4: 2: 0.

③ Conversion of frame rate.

④ 4K HDR data content can be output, but when downscaling to 1080P, HDR data cannot be reproduced 100%.

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※X.v.Color is a trademark or registered trademark of Sony Corporation.

※Operation with all devices is not guaranteed.

※Specifications are subject to change without notice for improvement.

The latest information and the detailed product specifications are available at <http://www.ad-techno.com/en/>

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