

# DATA SHEET

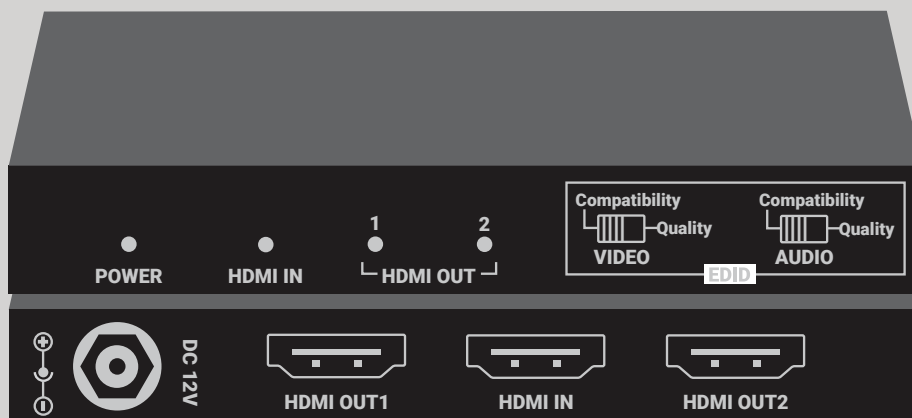
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VSW-HDMI2-3X1, VSW-HDMI2-4X1, VSP-HDMI2-1X2, VSP-HDMI2-1X4

# HDMI 2.0 SWITCHES AND SPLITTERS

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# OVERVIEW

## HDMI 2.0 SWITCHES AND SPLITTERS DATA SHEET

### INTRODUCTION

The HDMI 2.0 Video Switch - 4K60, HDCP, 3 x 1 or 4 x 1 features HDMI 2.0 and HDCP 2.2 compatibility and supports resolutions up to 4K @ 60 Hz 4:4:4 8-bit, enabling three or four Ultra HD sources to be switched to one Ultra HD display. It also allows control through a top panel button, IR remote and automatic switch.

The switch is small, compact and easy to install, giving you the convenience of future-ready Ultra HD AV switching, and the reliability of cutting-edge HDMI 2.0 and HDCP 2.2 compatibility.

The HDMI 2.0 Splitter - 4K60, 1 x 2 or 1 x 4 is a 1 to 2 or 1 to 4 HDMI splitter. It supports HDMI 2.0 with resolutions up to 4K @ 60 Hz 4:4:4 8-bit and is HDCP 2.2 compliant.

This device also supports EDID and HDCP management, which authenticates HDCP encryption between all devices, ensuring the HDMI source reliably outputs the correct content to the displays.

This splitter is an ideal choice for applications such as offices, schools, conference rooms, hotels and museums that require the distribution of one HDMI source signal to two or four outputs.

### FEATURES

- FULLY COMPLIANT WITH HDMI 2.0 AND HDCP 2.2
- HDMI INPUTS AND OUTPUT SUPPORT RESOLUTIONS UP TO 4K @ 60 HZ 4:4:4 8-BIT
- MULTI-CHANNEL PCM, DOLBY TRUEHD AND DTS HD AUDIO SUPPORTED UP TO 7.1 CH
- SWITCH SUPPORTS TOP PANEL BUTTON, IR REMOTE AND AUTOMATIC SWITCH CONTROL OPTIONS
- SWITCH ALLOCATES THREE OR FOUR HDMI INPUTS TO ONE HDMI OUTPUT, ONE INPUT AT A TIME
- SPLITTER DISTRIBUTES ONE HDMI SOURCE TO TWO OR FOUR HDMI DISPLAYS
- SPLITTER HAS DIP SWITCH ON FRONT PANEL FOR EDID MANAGEMENT
- COMPACT SIZE AND EASY TO INSTALL

## COMPARISON CHART

SPECIFICATION COMPARISON CHART				
	VSW-HDMI2-3X1	VSW-HDMI2-4X1	VSP-HDMI2-1X2	VSP-HDMI2-1X4
INPUT CONNECTOR	(3) HDMI	(4) HDMI	(1) HDMI	(1) HDMI
OUTPUT CONNECTOR	(1) HDMI	(1) HDMI	(2) HDMI	(4) HDMI
INPUT/OUTPUT SIGNAL TYPE	HDMI 2.0 w/HDCP 2.2	HDMI 2.0 w/HDCP 2.2	HDMI 2.0 w/HDCP 2.2	HDMI 2.0 w/HDCP 2.2
RESOLUTIONS SUPPORTED	UP TO 4K @ 60 HZ	UP TO 4K @ 60 HZ	UP TO 4K @ 60 HZ	UP TO 4K @ 60 HZ
POWER SUPPLY	5 VDC, 1 A	5 VDC, 1 A	12 VDC, 0.5 A	12 VDC, 1 A
POWER CONSUMPTION	1.735 W	1.735 W	3 W	4 W
AUDIO	YES	YES	YES	YES
APPROVALS	CE, FCC, IC, RCM AND VCCI	CE, FCC, IC, RCM AND VCCI	CE, FCC, IC, RCM AND VCCI	CE, FCC, IC, RCM AND VCCI

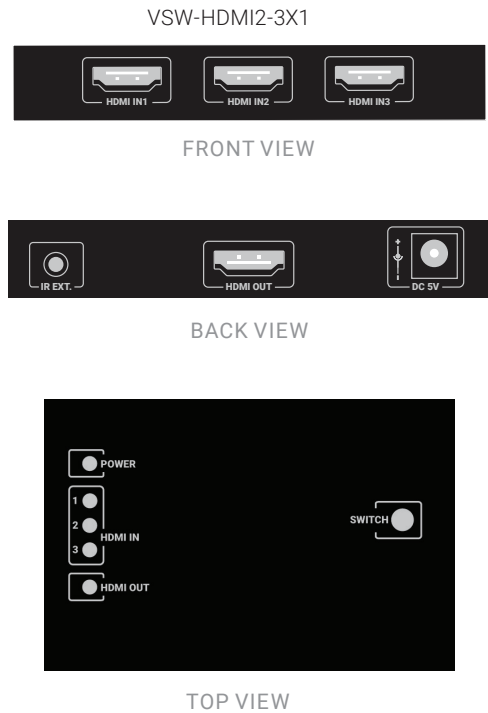


# SPECIFICATIONS

## HDMI 2.0 VIDEO SWITCH-3 X 1 (VSW-HDMI2-3X1)

### WHAT'S INCLUDED WITH THE SWITCH (VSW-HDMI2-3X1)

- (1) HDMI 2.0 VIDEO SWITCH – 4K60, HDCP, 3 X 1
- (1) 5-VDC POWER ADAPTER WITH U.S. PLUG
- (1) REMOTE CONTROL
- (1) 38-KHZ IR EXTENSION CABLE
- (2) MOUNTING BRACKETS



### SPECIFICATIONS FOR HDMI 2.0 VIDEO SWITCH – 3 X 1 (VSW-HDMI2-3X1)

VIDEO	
INPUT	(3) HDMI Type A female
OUTPUT	(1) HDMI Type A female
INPUT/OUTPUT SIGNAL TYPE	HDMI 2.0 w/HDCP 2.2
INPUT/OUTPUT RESOLUTION SUPPORT	VESA: 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 960, 1280 x 1024, 1360 x 768, 1366 x 768, 1400 x 1050, 1440 x 900, 1600 x 900, 1600 x 1200, 1680 x 1050, 1920 x 1200; SMPTE: 720 x 480p, 720 x 576p, 1280 x 720p, 1920 x 1080i, 1920 x 1080p, 3840 x 2160, 4096 x 2160
MAXIMUM DATA RATE	18 Gbps
CONTROL METHOD	IR control, switch button control
AUDIO	
AUDIO FORMAT SUPPORTED	Fully supports audio formats in HDMI 2.0 specification, including PCM, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X
GENERAL	
OPERATING TEMPERATURE	32 to 113° F (0 to 45° C)
STORAGE TEMPERATURE	-4 to +158° F (-20 to +70° C)
HUMIDITY	10 to 90%, noncondensing
ESD PROTECTION	Human-Body Model: ±8 kV (air-gap discharge)/±4 kV (contact discharge)
POWER SUPPLY	5 VDC, 1 A
POWER CONSUMPTION (MAXIMUM)	1.735 W
DIMENSIONS	Each unit: 0.77" H x 3.93" W x 2.61" D (1.95 x 10 x 6.62 cm)
WEIGHT	Each unit: 0.5 lb. (0.2 kg)
APPROVALS	CE, FCC, IC, RCM and VCCI

# SPECIFICATIONS

## HDMI 2.0 VIDEO SWITCH—4 X 1 (VSW-HDMI2-4X1)

### WHAT'S INCLUDED WITH THE SWITCH (VSW-HDMI2-4X1)

- (1) HDMI 2.0 VIDEO SWITCH — 4K60, HDCP, 4 X 1
- (1) 5-VDC POWER ADAPTER WITH U.S. PLUG
- (1) REMOTE CONTROL
- (1) 38-KHZ IR EXTENSION CABLE
- (2) MOUNTING BRACKETS

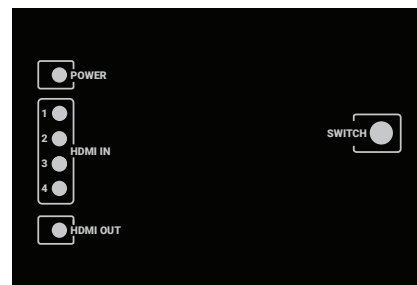
VSW-HDMI2-4X1



FRONT VIEW



BACK VIEW



TOP VIEW

### SPECIFICATIONS FOR HDMI 2.0 VIDEO SWITCH — 4 X 1 (VSW-HDMI2-4X1)

VIDEO	
INPUT	(4) HDMI Type A female
OUTPUT	(1) HDMI Type A female
INPUT/OUTPUT SIGNAL TYPE	HDMI 2.0 w/HDCP 2.2
INPUT/OUTPUT RESOLUTION SUPPORT	VESA: 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 960, 1280 x 1024, 1360 x 768, 1366 x 768, 1400 x 1050, 1440 x 900, 1600 x 900, 1600 x 1200, 1680 x 1050, 1920 x 1200; SMPTE: 720 x 480p, 720 x 576p, 1280 x 720p, 1920 x 1080i, 1920 x 1080p, 3840 x 2160, 4096 x 2160
MAXIMUM DATA RATE	18 Gbps
CONTROL METHOD	IR control, switch button control
AUDIO	
AUDIO FORMAT SUPPORTED	Fully supports audio formats in HDMI 2.0 specification, including PCM, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X
GENERAL	
OPERATING TEMPERATURE	32 to 113° F (0 to 45° C)
STORAGE TEMPERATURE	-4 to +158° F (-20 to +70° C)
HUMIDITY	10 to 90%, noncondensing
ESD PROTECTION	Human-Body Model: ±8 kV (air-gap discharge)/±4 kV (contact discharge)
POWER SUPPLY	5 VDC, 1 A
POWER CONSUMPTION (MAXIMUM)	1.735 W
DIMENSIONS	Each unit: 0.77" H x 3.93" W x 2.56" D (2 x 10 x 6.52 cm)
WEIGHT	Each unit: 0.52 lb. (0.24 kg)
APPROVALS	CE, FCC, IC, RCM and VCCI

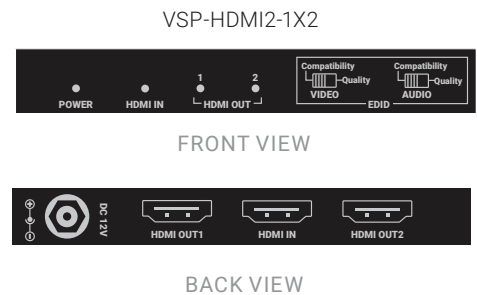


# SPECIFICATIONS

## HDMI 2.0 SPLITTER—1 X 2 (VSP-HDMI2-1X2)

### WHAT'S INCLUDED WITH THE SPLITTER (VSP-HDMI2-1X2)

- (1) HDMI 2.0 SPLITTER - 4K60, 1 X 2
- (1) POWER SUPPLY (12 VDC, 0.5 A)
- (2) MOUNTING BRACKETS



### SPECIFICATIONS FOR HDMI 2.0 SPLITTER— 1 X 2 (VSP-HDMI2-1X2)

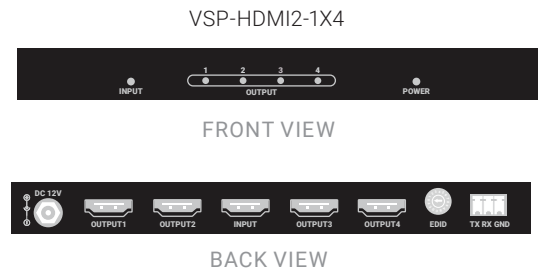
VIDEO	
INPUT	(1) HDMI Type A female
OUTPUT	(2) HDMI Type A female
INPUT/OUTPUT SIGNAL TYPE	HDMI 2.0 w/HDCP 2.2
INPUT/OUTPUT RESOLUTION SUPPORT	VESA: 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 960, 1280 x 1024, 1360 x 768, 1366 x 768, 1400 x 1050, 1440 x 900, 1600 x 900, 1600 x 1200, 1680 x 1050, 1920 x 1200; SMPTE: 720 x 480p, 720 x 576p, 1280 x 720p, 1920 x 1080i, 1920 x 1080p, 3840 x 2160, 4096 x 2160
AUDIO	
AUDIO FORMAT	PCM 2.0/5.1/7.1, Dolby TrueHD and DTS HD Master Audio
AUDIO FORMAT SUPPORTED	Fully supports audio formats in HDMI 2.0 specification, including PCM, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X
GENERAL	
CONTROL METHOD	IR control, switch button control
MAXIMUM DATA RATE	18 Gbps
INPUT VIDEO SIGNAL	0.5 – 1.0 V p-p
INPUT DDC SIGNAL	5 V p-p
MAXIMUM PIXEL CLOCK	600 MHz
POWER SUPPLY	12 VDC, 0.5 A
POWER CONSUMPTION (MAXIMUM)	3 W
OPERATING TEMPERATURE	32 to 113° F (0 to 45° C)
STORAGE TEMPERATURE	-4 to +158° F (-20 to +70° C)
HUMIDITY	10 to 90%, noncondensing
ESD PROTECTION	Human-Body Model: ±8 kV (air-gap discharge)/±4 kV (contact discharge)
DIMENSIONS	2.7" H x 3.9" W x 0.6" D (7 x 10 x 1.5 cm)
WEIGHT	0.4 lb. (0.2 kg)
APPROVALS	CE, FCC, IC, RCM and VCCI

# SPECIFICATIONS

## HDMI 2.0 SPLITTER—1 X 4 (VSP-HDMI2-1X4)

### WHAT'S INCLUDED WITH THE SPLITTER (VSP-HDMI2-1X4)

- (1) HDMI 2.0 SPLITTER - 4K60, 1 X 4
- (1) POWER SUPPLY (12 VDC, 1 A)
- (2) MOUNTING BRACKETS



### SPECIFICATIONS FOR HDMI 2.0 SPLITTER— 1 X 4 (VSP-HDMI2-1X4)

VIDEO	
INPUT	(1) HDMI Type A female
OUTPUT	(4) HDMI Type A female
INPUT/OUTPUT SIGNAL TYPE	HDMI 2.0 w/HDCP 2.2
INPUT/OUTPUT RESOLUTION SUPPORT	VESA: 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 960, 1280 x 1024, 1360 x 768, 1366 x 768, 1400 x 1050, 1440 x 900, 1600 x 900, 1600 x 1200, 1680 x 1050, 1920 x 1200; SMPTE: 720 x 480p, 720 x 576p, 1280 x 720p, 1920 x 1080i, 1920 x 1080p, 3840 x 2160, 4096 x 2160
AUDIO	
AUDIO FORMAT	PCM 2.0/5.1/7.1, Dolby TrueHD and DTS HD Master Audio
AUDIO FORMAT SUPPORTED	Fully supports audio formats in HDMI 2.0 specification, including PCM, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X
GENERAL	
CONTROL METHOD	IR control, switch button control
MAXIMUM DATA RATE	18 Gbps
INPUT VIDEO SIGNAL	0.5 – 1.0 V p-p
INPUT DDC SIGNAL	5 V p-p
MAXIMUM PIXEL CLOCK	600 MHz
POWER SUPPLY	12 VDC, 1 A
POWER CONSUMPTION (MAXIMUM)	4 W
OPERATING TEMPERATURE	32 to 113° F (0 to 45° C)
STORAGE TEMPERATURE	-4 to +158° F (-20 to +70° C)
HUMIDITY	10 to 90%, noncondensing
ESD PROTECTION	Human-Body Model: ±8 kV (air-gap discharge)/±4 kV (contact discharge)
DIMENSIONS	0.7" H x 6.6" W x 2.7" D (1.8 x 16.7 x 6.9 cm)
WEIGHT	0.7 lb. (0.3 kg)
APPROVALS	CE, FCC, IC, RCM and VCCI



# ORDERING INFORMATION

ITEM	CODE
HDMI 2.0 Video Switches	
3 x 1	<b>VSW-HDMI2-3X1</b>
4 x 1	<b>VSW-HDMI2-4X1</b>
HDMI 2.0 Splitters	
1 x 2	<b>VSP-HDMI2-1X2</b>
1 x 4	<b>VSP-HDMI2-1X4</b>
Locking HDMI Cables	
Locking HDMI male to non-locking HDMI male	<b>VCL-HDMIS-00xM</b>
Locking HDMI male to DVI male	<b>VCL-HDMIDVI-00xM</b>
NOTE: Locking HDMI cables come in 1, 2, 3 and 5 meter lengths.	

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Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.

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