



## HDMI Switcher IMP-S41U

The IMP-S41U is an HDCP 2.2-compliant 4K@60 HDMI switcher with four inputs and one output. Digital audio of selected input channel can be de-embedded to analog audio.

The switcher also includes RS-232C and LAN as communication ports that offer remote setting from WEB browser or control commands. Additionally, contact inputs/tally outputs enable the IMP-S41U to be controlled from the PC I/O board and a control box.

### ■ Specification

Item		Description
Input		4 inputs HDMI/DVI 1.0 TMDS single link, HDCP 1.4/2.2 x.v.Color/3D (*1)/CEC (Pass-through)/HDR (*2) ARC/HEC are not supported. Connector: 4 female HDMI Type A (19-pin)
Output		1 output HDMI/DVI 1.0 TMDS single link, HDCP 1.4/2.2 x.v.Color/3D (*1)/CEC (Pass-through)/HDR (*2) ARC/HEC are not supported. Connector: 1 female HDMI Type A (19-pin)
Format		VGA to 4K 480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K For 4K formats, 24 Hz/25 Hz/30 Hz/50 Hz (4:4:4)/60 Hz (4:4:4) are supported.
Color depth		24 bit, 30 bit, 36 bit Deep Color For 4K@50/59.94/60 RGB/YCbCr 4:4:4, 24 bit is supported.
Dot clock		25 MHz to 600 MHz
TMDS clock		25 MHz to 300 MHz
TMDS data rate		0.75 Gbps to 18 Gbps
Plug & Play		DDC2B (can be selected from Built-in EDID, Copied EDID, or EDID of connected monitor) Built-in EDID: The maximum resolution can be selected.
Digital audio input		Multi-channel LPCM up to 8 channels Sampling frequency: 32 kHz to 192 kHz, Sample size: 16 bit to 24 bit Reference level: -20 dBFS, Max. input level: 0 dBFS
Digital audio output		Multi-channel LPCM up to 8 channels Sampling frequency: 32 kHz to 192 kHz, Sample size: 16 bit to 24 bit Reference level: -20 dBFS, Max. output level: 0 dBFS
Analog audio output		1 output Balanced/Unbalanced Stereo LR Balanced Output impedance: 100 Ω, Reference level: -4 dBu, Max. output level: +16 dBu Unbalanced Output impedance: 50 Ω, Reference level: -10 dBu, Max. output level: +10 dBu Connector: 1 captive screw (5-pin)
Maximum transmission distances	Digital input	98 ft. (30 m) (1080p@60), 39 ft. 12 m (4K@60) (*3)
	Digital output	98 ft. (30 m) (1080p@60), 39 ft. 12 m (4K@60) (*3)
Control	RS-232C	1 port/captive screw (3-pin)
	LAN	1 port/RJ-45 10Base-T/100Base-TX (Auto Negotiation), Auto MDI/MDI-X
	Contact input/ Tally output	5 ports/captive screw (3-pin) Contact input: Non-voltage contact (make contact) input or voltage contact output (DC 0 V to 5 V ±5%) Tally output : Open collector output (Rated DC 48 V 1 A)
	Power output	1 port/captive screw (3-pin) Pin 1 : DC 5 V (300 Ω current limitation) Pin 2 : DC 5 V (75 Ω current limitation) Pin 3 : DC 5 V (Rated 500 mA)
Functions		WEB browser control, Automatic input channel switching, Input channel sequence switching, Audio de-embedding, DDC buffer, Last memory, Anti-Snow, Connection Reset (*4), Button security lockout
General	AC adapter	Input : 100 - 240 VAC ±10%, 50 Hz/60 Hz ±3 Hz Output : DC 5 V 3 A 15.0 W (A dedicated AC adapter is provided)
	Power consumption	About 7 W
	Dimensions	8.3 (W) × 1.7 (H) × 5.5 (D)" (210 (W) × 42 (H) × 140 (D) mm) (Half rack wide, 1U high) (Excluding connectors and the like)
	Weight	2.4 lbs. (1.1 kg)
	Temperature	Operating : 32°F to 104°F (0°C to +40°C) Storage : -4°F to +176°F (-20°C to +80°C)
	Humidity	Operating/Storage: 20% to 90% (Non Condensing)

\*1 3D is supported if external EDID is selected while a 3D-supported sink device is connected for EDID setting or if copied EDID of 3D-supported sink device is selected for EDID setting.

\*2 HDR is supported if external EDID is selected while an HDR-supported sink device is connected for EDID setting or if copied EDID of an HDR-supported sink device is selected for EDID setting.

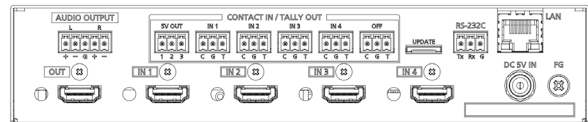
\*3 The maximum cable distance varies depending on the connected devices and was measured under following conditions:  
 • 1080p@60 : When IDK's 24 AWG cable was used and signals of 1080p@60 24 bit/pixel (8 bit/component) was input or output.  
 • 4K@60 : When IDK's 18 Gbps supported cable was used and signals of 4K@60 24 bit/pixel (8 bit/component) was input or output.

The maximum cable distance depends on the connected devices. The distance may not be extended with some device combinations, cabling method, or other manufacturer's cable. Video may be disturbed or may not be output even if signals are within the range mentioned above.

\*4 For digital systems, some problems, such as an HDCP authentication error, can often be recovered by physically disconnecting and reconnecting the digital cables. However, the Connection Reset feature will fix these problems automatically without the need to physically plug and unplug the cables. It creates the same condition as if the cable were physically disconnected and reconnected. This feature only works for the IMP-S's output. If other devices are connected between the IMP-S's output and sink device, this feature may be invalid.

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■ Front & Rear Panels



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