HDMI Seamless Switcher

IMP-F41U

The IMP-F41U is an HDMI seamless switcher with four (4) HDMI inputs, supports video resolutions up to 4K@60, and HDCP 2.2. content to the two (2) available HDMI outputs. Output image is mirrored across both outputs acting as an HDMI DA to distribute video across the AV system.

Input audio is distributed to digital and analog audio.

The switcher also includes RS-232C and LAN as communication ports that provide remote control and monitoring from the WEB browser or API commands.

■ Specification

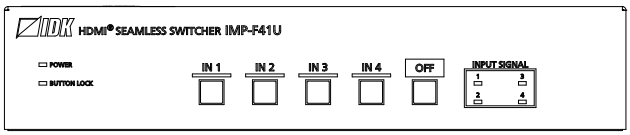
		IMP-F41U
Video/Audio input	HDMI	4 inputs
		HDMI/DVI 1.0 TMDS single link*1, HDCP 1.4/2.2 TMDS clock: Up to 300 MHz, TMDS data rate: Up to 9 Gbps
		640x480@60 to 2560x1600@60 Reduced Blanking 480p, 576p to 3840x2160@24/25/30 (4:4:4), 3840x2160@50/59.94/60 (4:2:0), 4096x2160@24/25/30 (4:4:4), 4096x2160@50/59.94/60 (4:2:0) Color depth: 24 bits *For all supported video signals, see the table below.
		LPCM: Up to 2 channels Sampling frequency: 32/44.1/48/88.2/96/176.4/192 kHz Reference level: -20 dBFS, Max. input level: 0 dBFS
		Connector: HDMI Type A Maximum distances*2: 98 ft. (30 m) (1080p@60), 39 ft. (12 m) (4K@60)
Video/Audio output	HDMI	1 output
		2 distributions
		HDMI/DVI 1.0 TMDS single link*1, HDCP 1.4/2.2 TMDS clock: Up to 297 MHz, TMDS data rate: Up to 8.91 Gbps
		1920x1200@ 60 Reduced Blanking to 2560x1600@60 Reduced Blanking 720p, 1080p to 3840x2160@24/25/30 (4:4:4), 3840x2160@50/59.94/60 (4:2:0), 4096x2160@24/25/30 (4:4:4), 4096x2160@50/59.94/60 (4:2:0) Color depth: 24 bits *For all supported video signals, see the table below.
		LPCM: Up to 2 channels Sampling frequency: 48 kHz Reference level: -20 dBFS, Max. output level: 0 dBFS
		Connector: HDMI Type A Maximum distances*2: 30 m (1080p@60), 12 m (4K@60)
	Analog audio	1 output
		Stereo L/R Output impedance: 50 Ω unbalanced Reference level: -10 dBu, Max. input level: +10 dBu
		Connector: Captive screw (3-pin)
Control I/F	RS-232C	1 port/Connector: Captive screw (3-pin)
	LAN	1 port/10Base-T/100Base-TX (Auto Negotiation), Auto MDI/MDI-X, Connector: RJ-45
	Contact input/Tally output	5 ports 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) Connector: Captive screw (3-pin) LED power for Tally (Rated DC 5 V 0.5 A) connector: Captive screw (2-pin)
Functions	Video	Resolution conversion, Frame rate conversion, Seamless switching, Each video output OFF, Built-in library of test patterns
	Audio	Volume level adjustment (Input/Output), De-embedding, Test tone
	Control	WEB browser (Encrypted communication supported), Unique Reception Command, Unsolicited notification
	Others	Automatic input switching, EDID emulation, Audio input enable/disable, HDCP input enabling/disabling, Automatic signal equalization (Input/Output), Status display, System check, Last memory, Anti-Snow, Connection Reset *3, Button security lockout
General	Power	DC 12 V 2.2 A AC adapter: AC 100 V - 240 V ±10%, 50 Hz/60 Hz ±3 Hz, DC 12 V 3 A
	Power consumption	26 W
	Dimensions	8.3 (W) × 1.7 (H) × 7.9 (D)" (210 (W) × 42 (H) × 200 (D) mm) (Excluding connectors and the like)
	Weight	3.1 lbs. (1.4 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	20% to 90% (Non Condensing)

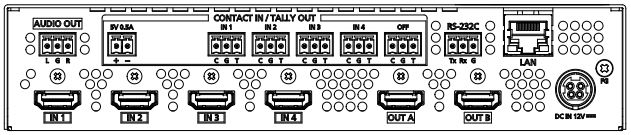
*1 CEC/Deep Color/3D/HDR/ARC/HEC are not supported.

*2 The maximum specified distances may not be achievable with some device combinations, cabling method, or other manufacturer's cable. For the same reasons, video signal disturbances or interruptions may occur, even if signals are within the specified distance (cable length) parameters.
The maximum cable length varies depending on the connected devices. The specifications have been qualified under following conditions
- HDMI (1080p@60) : When IDK cable was used and signal of 1080p@60 24 bits was transmitted.
- HDMI (4K@60) : When IDK's 18 Gbps supported cable was used and signal of 3840x2160@60 24 bits was transmitted.

*3 It creates the same condition as if the cable were physically disconnected and reconnected. This feature only works for the IMP's output. Connecting other devices between the IMP's outputs and sink devices, may interfere with the operation of this feature.

■ Front & Rear Panels





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IMP-F41U Supported video signals

Signal	Resolution	Frame Rate [Hz]	Pixel Clock [MHz]	Color Depth [bits]	INPUT	OUT
					HDMI	HDMI
640x480@60	640x480	59.94	25.18	24	○	–
800x600@60	800x600	60.32	40.00	24	○	–
1024x768@60	1024x768	60.00	65.00	24	○	–
1280x768@60	1280x768	59.87	79.50	24	○	–
1280x800@60	1280x800	59.81	83.50	24	○	–
1280x960@60	1280x960	60.00	108.00	24	○	–
1280x1024@60	1280x1024	60.02	108.00	24	○	–
1360x768@60	1360x768	60.02	85.50	24	○	–
1366x768@60	1366x768	59.79	85.50	24	○	–
1400x1050@60	1400x1050	59.98	121.75	24	○	–
1440x900@60	1440x900	59.89	106.50	24	○	–
1600x900@60	1600x900	59.95	118.25	24	○	–
1600x1200@60	1600x1200	60.00	162.00	24	○	–
1680x1050@60	1680x1050	59.95	146.25	24	○	–
1920x1080@60 RB	1920x1080	59.93	138.50	24	○	–
1920x1200@60 RB	1920x1200	59.95	154.00	24	○	○
2048x1152@60 RB	2048x1152	60.00	162.00	24	○	○
2560x1440@60 RB	2560x1440	59.95	241.50	24	○	○
2560x1600@60 RB	2560x1600	59.97	268.50	24	○	○
480p	720x480	59.94	27.00	24	○	–
576p	720x576	50.00	27.00	24	○	–
720p@50	1280x720	50.00	74.25	24	○	○
720p@60/59.94	1280x720	60.00/59.94	74.25/74.18	24	○	○
1080i@50	1920x1080	25.00	74.25	24	○	–
1080i@60/59.94	1920x1080	30.00/29.97	74.25/74.18	24	○	–
1080p@50	1920x1080	50.00	148.50	24	○	○
1080p@60/59.94	1920x1080	60.00/59.94	148.50/148.35	24	○	○
3840x2160@24/23.98	3840x2160	24.00/23.98	297.00/296.70	24	○	○
3840x2160@25	3840x2160	25.00	297.00	24	○	○
3840x2160@30/29.97	3840x2160	30.00/29.97	297.00/296.70	24	○	○
3840x2160@50	3840x2160	50.00	594.00	24	○*1	○*1
3840x2160@60/59.94	3840x2160	60.00/59.94	594.00/593.41	24	○*1	○*1
4096x2160@24/23.98	4096x2160	24.00/23.98	297.00/296.70	24	○	○
4096x2160@25	4096x2160	25.00	297.00	24	○	○
4096x2160@30/29.97	4096x2160	30.00/29.97	297.00/296.70	24	○	○
4096x2160@50	4096x2160	50.00	594.00	24	○*1	○*1
4096x2160@60/59.94	4096x2160	60.00/59.94	594.00/593.41	24	○*1	○*1

RB: Reduced Blanking
*1 YCbCr 4:2:0 24 bit is supported.

For best results, please confirm that the source device(s) video output can be configured to match the listed formats above.