



FDX-S Output Board FDX-SOV1UHM

The FDX-SOV1UHM is an HDCP 2.2-compliant one-output HDMI board designed for FDX-S Modular Matrix Switchers. Up to four input video signals can be combined on a screen, and the combined signal can be converted to up to 4K@60.

The Lip Sync feature provides the user with a means to control time alignment between the video and audio.

■ Specification

Item		Description
The number of output		1
Input	Video	Format VGA to 4K (Dot clock: 25 MHz to 600 MHz) 480p / 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.
	Audio	Digital 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
Output	Video	HDMI/DVI HDMI/DVI 1.0 TMDS single link, HDCP 1.4/2.2 TMDS clock: 25.175 MHz to 297 MHz, TMDS data rate: 0.755 Gbps to 17.82 Gbps 30 bit Deep Color For 4K@50/59.94 RGB/YCbCr 4:4:4, 24 bit is supported. x.v.Color/3D/HDR/ARC/HEC/CEC are not supported.
		Format VGA / XGA / WXGA (1280x768) / WXGA (1280x800) / Quad-VGA / SXGA / WXGA (1360x768) / WXGA (1366x768) / SXGA+ / WXGA+ / WXGA++ / UXGA / WSXGA+ / VESAHD / WUXGA / QWXGA / WQHD / WQXGA For VESAHD/WUXGA/QWXGA/WQHD/WQXGA, only Reduced Blanking is supported. 480p / 576p / 720p / 1080i / 1080p / 4K (3840x2160) / 4K (4096x2160)
	Audio	Digital 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
Connector		Female HDMI Type A (19-pin)
Maximum transmission distances		98 ft. (30 m) (1080p@60), 39 ft. (12 m) (4K@60) (*1)
Functions	Scan Converter	Video combination, Motion adaptive interlaced/progressive conversion, Aspect ratio control, Picture adjustment (brightness, contrast, image position, image size, etc.), Seamless Switching
	Others	Window patten (10 patterns), Window combination settings (background color, display priority, display ON/OFF, position, size, title character, Window border), Videowall output, Lip Sync (Max. 256 ms.), Anti-snow, Connection Reset (*2)
General	Power consumption	About 24 Watts
	Weight	1.3 lbs. (0.6 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 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 output.
- 4K@60 : When IDK's 18 Gbps supported cable was used and signals of 4K@60 24 bit/pixel (8 bit/component) was 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.

*2 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 FDX-S's output. If other devices are connected between the FDX-S's output and sink device, this feature may be invalid.

■ Panel



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