

MSD-5400 Series



Presentation Switcher (with built-in scan converter)

The IDK MSD-5400 series presentation switchers provide 5 digital (HDMI) and 4 analog inputs, and 1 to 4 digital outputs. These switchers have a built-in scan converter, seamless switching, aspect ratio control, and other features for applications with the most demanding quality requirements.

FRONT & REAR PANEL (MSD-5404)



FEATURES

- Video:**
- Up to QWXGA (RB)* or 1080p *(RB) = Reduced Blanking
 - Built-in digital cable EQ
 INPUT : Up to 33 ft. to 99 ft. approx. (10 m to 30 m)
 OUTPUT: Up to 33 ft. to 165 ft. approx. (10 m to 50 m)
 - Front panel LCD menu for setup and signal status check
 - Aspect ratio control
 - Seamless switching
 - Anti-snow
- Audio:**
- A/D, D/A conversion
 - Volume adjustment
 - Lip sync
- Control:**
- Input: RS-232C, LAN, PARALLEL
 - Output: RS-232C, LAN, CEC, TALLY
- Others:**
- Connection Reset
 - EDID emulation
 - Audio breakaway enables independent audio and video switching
 - Preset memory, Last memory, and Cross-point memory
 - Front panel security lockout
 - Internal test patterns for calibration and setup

PRODUCT SELECTION

Model Number	Digital Input	Analog Input	Digital Output
MSD-5401	5	4	1
MSD-5402	5	4	2
MSD-5403	5	4	3
MSD-5404	5	4	4

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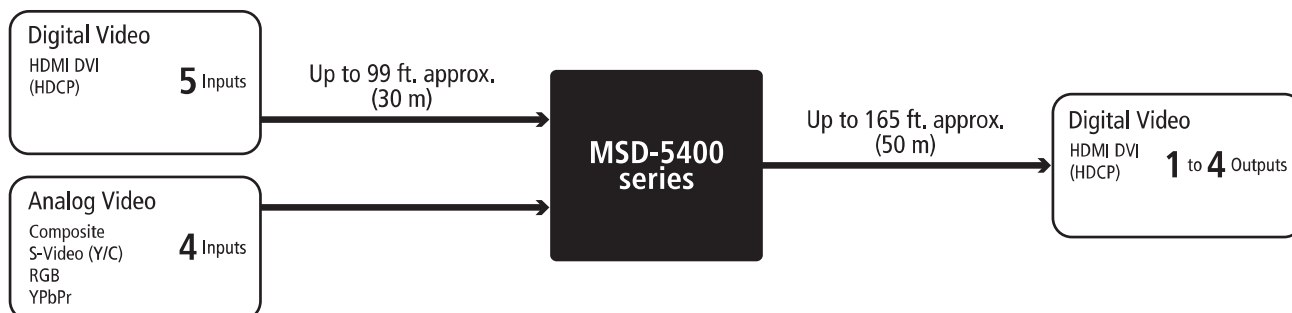
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CONNECTION DIAGRAM



SPECIFICATIONS

Input	Video	Digital	Number / Signal	5 inputs / HDMI, DVI 1.0 (HDCP 1.4)	TMDS Single Link, TMDS clock: 25 MHz to 225 MHz
			Connector	5 female HDMI Type A	
		Universal Analog	Number / Signal	4 inputs / Composite video, S-Video, Analog RGB / Analog YPbPr (auto-recognition)	
			Connector	4 female 15-pin HD	
	Audio	Formats		NTSC/PAL 480i / 480p / 576i / 576p / 720p / 1080i / 1080p VGA to QWXGA: Dot clock 25 MHz to 165 MHz * WUXGA / QWXGA: Reduced Blanking	Built-in Digital Cable EQ, EDID emulation
		Others			
		Digital	Number / Signal	5 inputs / Multi-channel linear PCM up to 8 channels Sampling frequency: 32 kHz to 192 kHz, Sample size: 16 bit to 24 bit * IN1 to 5: can be selected digital or analog audio.	
			Connector	5 female HDMI Type A	
Output	Video	Digital	Number / Signal	1 to 4 outputs / HDMI, DVI 1.0 (HDCP 1.4)	TMDS single link
			Connector	1 to 4 female HDMI Type A	
		Others		Built-in Digital Cable EQ	
		Formats		480i / 480p / 576i / 576p / 720p / 1080i / 1080p VGA / SVGA / XGA / WXGA (1280x768) / WXGA (1280x800) / Quad-VGA / SXGA/WXGA (1360x768) / WXGA (1366x768) / SXGA+ / WXGA+ / WXGA++ / UXGA / WSXGA+ / VESA1080 / WUXGA / QWXGA * VESA1080 / WUXGA / QWXGA: Reduced Blanking	
	Audio	Digital	Number / Signal	1 to 4 outputs / Multi-channel linear PCM up to 8 channels	Sampling frequency: 32 kHz to 192 kHz, Sample size: 16 bit to 24 bit
			Connector	1 to 4 male HDMI Type A	
		Analog	Number / Signal	1 or 4 outputs / Stereo LR unbalanced signals	
			Connector	1 or 4 RCA pin jack	
Functions	Lip Sync			Up to 8 frames	
	Analog video processing unit			3D Y/C separation	
	Scan converter			Aspect ratio control, Picture adjustment, Seamless switching	
	Others			Volume adjustment, Audio breakaway enables independent audio and video switching, Cross-point memory, Preset memory, Last memory, Anti-snow, Connection Reset, External control commands (32 commands), Front panel security lockout	
External control	Serial control port		Number / Signal	2 ports / RS-232C	
			Connector	2 male 9-pin D-Sub	
	LAN control port		Number / Signal	1 port / 10Base-T (Auto Negotiation), 100Base-TX (Auto Negotiation), Auto MDI / MDI-X	
			Connector	1 RJ-45	
	PARALLEL control port		Number / Signal	1 port / Non-voltage contact (make contact) input	
			Connector	1 female 50-pin Amphenol	
	TALLY control port		Number / Signal	1 port / Open collector output	
			Connector	1 female 50-pin Amphenol	
Others	Command outputs to external device			RS-232C, LAN, CEC (controls power of monitor), PLink (class1), TALLY	
	Power			100 - 240 VAC $\pm$ 10%, 50 Hz / 60 Hz $\pm$ 3 Hz	
	Power consumption			About 40 Watts to 54 Watts (Depends on number of output channels)	
	Dimensions			16,93(W) $\times$ 3,46(H) $\times$ 13,78(D)" approx. (430(W) $\times$ 88(H) $\times$ 350(D)mm) (EIA rack 2U, not including projections)	
	Weight			12.13 lbs. approx. (5.5 kg)	
	Temperature			Operating temperature: 32°F to 104°F (0°C to +40°C) Storage temperature: -4°F to +176°F (-20°C to +80°C)	
	Humidity			Operating / Storage humidity: 20% to 90% (Non Condensing)	