MSD-501 & MSD-502

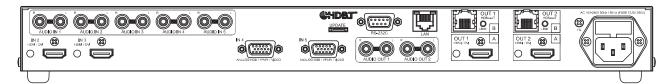


Presentation Switcher (with built-in scan converter)

The IDK MSD-501 and MSD-502 are simple-to-use presentation switchers with 3 digital (HDMI) and 2 analog inputs. The MSD-501 includes an HDMI output and an HDBaseT output that can output simultaneously. The MSD-502 has 2 pairs of this simultaneous output. 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-502)





FEATURES

• Up to QWXGA (RB)* or 1080p Video:

*(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)

• Extends output signal up to 330 ft. approx. (100 m) using a Cat6 twisted pair cable

Front panel LCD menu for setup and signal status check

Simultaneous output from an HDMI output and an HDBaseT output

Aspect ratio control

Seamless switching

• Anti-snow

 Volume adjustment Audio:

• Lip sync

Control: • Input: RS-232C, LAN • Output: RS-232C, LAN, CEC

Others:

• Front panel HDMI input

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

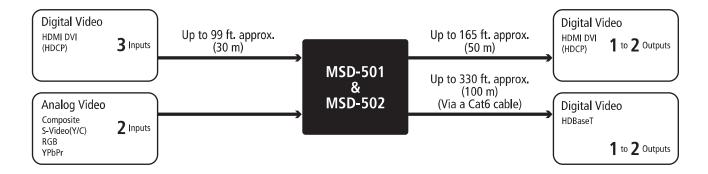
PRODUCT SELECTION

Model Number	Digital Input	Analog Input	Digital Output*
MSD-501	3	2	1
MSD-502	3	2	2

^{*} Digital output can output both an HDMI output and an HDBaseT output simultaneously

CONNECTION DIAGRAM





SPECIFICATIONS

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Input	Video	Digital		3 inputs / HDMI, DVI 1.0 (HDCP 1.4) TMDS single link, TMDS clock: 25 MHz to 225 MHz	
		11-1	Connector Number / Signal	3 female HDMI Type A	
		Universal Analog		2 inputs / Composite video, S-Video, Analog RGB/Analog YPbPr (auto-recognition)	
		-	Connector	2 female 15-pin HD NTSC/PAL	
		Formats			
	0.1			480i / 480p / 576i / 576p / 720p / 1080i / 1080p	
				VGA to QWXGA: Dot dock 25 MHz to 165 MHz * WUXGA / QWXGA: Reduced Blanking	
	Others		N 1 (6' 1	Built-in Digital Cable EQ, EDID emulation	
	Ana	Digital	Number / Signal	3 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 3: can be selected digital or analog audio.	
			Connector	3 female HDMI Type A	
		Analog		5 inputs / Stereo LR unbalanced signals * IN1 to 3: can be selected digital or analog audio.	
			Connector	5 RCA pin jack	
Output	Video	Digita l		1 or 2 outputs / HDMI, DVI 1.0 (HDCP 1.4) TMDS single link * Output video can be distributed to an HDMI/DVI and HDBaseT simultaneously.	
			Connector	1 or 2 female HDMI Type A	
		upp T	Others	Built-in Digital Cable EQ	
		HDBaseT		1 or 2 outputs / HDMI, DVI 1.0 (HDCP 1.4) TMDS single link * Output video can be distributed to an HDMI/DVI and HDBaseT simultaneously.	
		-	Connector	1 or 2 RJ-45 Cable: Cat5e / Cat6 (STP / UTP straight cable)	
		Formats		480i / 480p / 576i / 576p / 720p / 1080i / 1080p	
				VGA / SVGA / WGA (1280x768) / WXGA (1280x800) / Quad-VGA / SXGAWXGA (1360x768) / WXGA (1366x768) / SXGA+ / WXGA+ / WXGA+ / UXGA+ / UXGA / WSXGA+ / UXGA / WSXGA+ / WXGA (1280x800) / Quad-VGA / SXGAWXGA (1360x768) / WXGA (1360x768) / SXGA+ / WXGA+	
				VESA1080 / WUXGA / QWXGA * VESA1080 / WUXGA / QWXGA: Reduced Blanking	
	Audio	Digital	Number / Signal	1 or 2 outputs / Multi-channel linear PCM up to 8 channels	
				Sampling frequency: 32 kHz to 192 kHz, Sample size: 16 bit to 24 bit * Audio can be distributed to an HDMI output and an HDBaseT output simultaneously.	
			Connector	1 or 2 female HDMI Type A	
		Digital Twisted pair extension	Number / Signal	1 or 2 outputs / Multi-channel linear PCM up to 8 channels	
			_	Sampling frequency: 32 kHz to 192 kHz, Sample size: 16 bit to 24 bit * Audio can be distributed to an HDMI output and an HDBaseT output simultaneously.	
			Connector	1 or 2 RJ-45	
		Analog		1 or 2 outputs / Stereo LR unbalanced signals	
			Connector	1 or 2 RCA pin jack	
		Lip Sync		Up to 17 frames	
Functions	Analog video processing unit			3D Y/C separation	
	Scan Converter			Aspect ratio control, Picture adjustment, Seamless Switching, Motion adaptive I/P conversion	
	Others			Volume adjustment, Audio breakaway enables independent audio and video switching, Cross-point memory, Preset memory, Last memory, Anti-snow,	
			T	Connection Reset, External control commands (32 commands), Front panel security lockout	
External control	Connector		Number / Signal		
				1 male 9-pin D-Sub	
	Connector		Number / Signal	1 port / 10Base-T (Auto Negotiation), 100Base-TX (Auto Negotiation), Auto MDI/MDI-X	
			Connector	1 RJ-45	
	Command outputs to external device			RS-232C, LAN, CEC (controls power of monitor), PlLink (dass1)	
Others	Power			100 - 240 VAC ± 10%, 50 Hz / 60 Hz ± 3 Hz	
	Power consumption			About 35 Watts to 43 Watts	
	Dimensions			16.93(W) x 1.73(H) x 13.88(D)" approx. (430(W) x 44(H) x 350(D)mm) (EIA rack 1U, not including projections)	
	Weight			9.26 lbs. approx. (4.2 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)	