MSD-501 & MSD-502

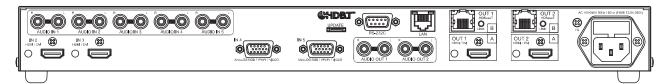


Presentation Switcher (with built-in scan converter)

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

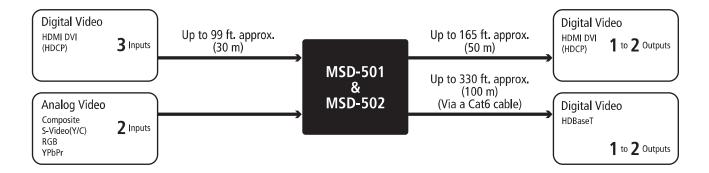
PRODUCT SELECTION

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
			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
	Formats			NTSC/PAL
				480i / 480p / 576i / 576p / 720p / 1080i / 1080p
				VGA to QWXGA: Dot dock 25 MHz to 165 MHz * WUXGA / QWXGA: Reduced Blanking
	Others		Tu 1 (a) 1	Built-in Digital Cable EQ, EDID emulation
	,	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
	Video	Digital		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
			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		480j / 480p / 576i / 576p / 720p / 1080i / 1080p
				VGA / SVGA / WXGA (1280x768) / WXGA (1280x800) / Quad-VGA / SXGA/WXGA (1360x768) / WXGA (1366x768) / 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
	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,
				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 MDJ/MDJ-X
			Connector	1 RJ-45
	Command outputs to external device			RS-232C, LAN, CEC (controls power of monitor), PJLink (dass1)
-	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)