

# MSD-402



## Presentation Switcher (built-in scan converter)

The IDK MSD-402 presentation switcher provides 4 inputs and 2 outputs and has a built-in scan converter. For video input, 2 HDBaseT and 2 HDMI/DVI are included. Input video signals are converted to HDMI/DVI signals or HDBaseT signals output at resolutions up to QWXGA or 1080p. For audio input, 4 digital inputs are included. Selected audio signals are output to digital audio and analog audio. Audio levels of each input and output can be set individually. RS-232C and LAN are provided as communication ports for external control communication to enable you to set menus remotely. Bidirectional LAN communication is supported for HDBaseT input/output.

### FRONT / REAR PANEL

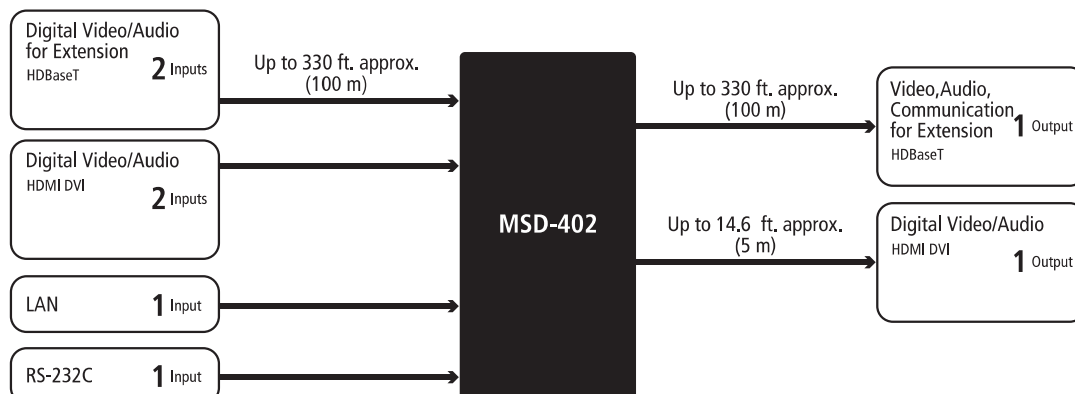


### FEATURES

- Video:**
    - Up to QWXGA (Reduced Blanking) or 1080p
    - HDMI input cable EQ
    - Input: up to 33ft to 99ft approx. (10m to 30m)
    - Up to 330ft approx. (100m) extension over a Cat6 cable
  - Scan converter**
  - Aspect control
  - Seamless switching
  - Anti-snow
  - Picture in Picture**
- Audio:**
- D/A conversion
  - Volume adjustment
  - Multiple audio down mixing

- Control input:**
  - RS-232C, LAN
- Others:**
  - EDID emulation
  - Automatic input switching
  - Cross point memory
  - Preset memory
  - Last memory
  - Connection Reset
  - Lock mechanism for AC adapter

### CONNECTION DIAGRAM



## SPECIFICATIONS

Input	Video	HDMI	Number / Signal	2 inputs / HDMI Deep Color / DVI 1.0 HDCP1.4 TMDS single link TMDS clock: 25 MHz to 225 MHz Dot clock: 25 MHz to 165 MHz
			Connector	2 female HDMI Type A
			Others	Built-in Digital Cable EQ, EDID emulation
	HDBaseT	Number / Signal	2 inputs / HDBaseT HDCP1.4 TMDS single link TMDS clock: 25 MHz to 225 MHz Dot clock: 25 MHz to 165 MHz	
		Connector	2 RJ-45 Cable: Cat5e/Cat6 (STP/UTP straight cable)	
		Format	480i / 480p / 576i / 576p / 720p / 1080i / 1080p VGA to QWXGA * WUXGA / QWXGA: Reduced Blanking	
Audio	Digital	Number / Signal	4 inputs / Multi-channel linear PCM 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 * IN1 to 3: can be selected digital or analog audio,	
		Connector	2 female HDMI Type A 2 RJ-45	
Output	Video	Digital	Number / Signal	1 output / HDMI Deep Color / DVI 1.0 HDCP1.4 TMDS single link TMDS clock: 25 MHz to 225 MHz Dot clock: 25 MHz to 165 MHz
			Connector	1 female HDMI Type A
			HDBaseT	Number / Signal
	Format	Connector	1 RJ-45 Cable: Cat5e/Cat6 (STP/UTP straight cable)	
		Format	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/WXSGA+ / VESA1080/WUXGA/QWXGA * VESA1080 / WUXGA / QWXGA: Reduced Blanking	
		Audio	Digital	Number / Signal
	Analog	Connector	1 female HDMI Type A, 1 RJ-45	
		Number / Signal	1 output / Stereo LR balanced and unbalanced signals Output impedance: 75 Ω Reference level: -10 dBu Max. output level: +10 dBu	
		Connector	2 terminal blocks (5-pin)	
	Max. extension distance	Input	HDMI/DVI	33 ft. to 99 ft. approx. (10 m to 30 m)
HDBaseT			Up to 330 ft. approx. (100 m)	
Output		HDMI/DVI	Up to 16.4 ft. approx. (5 m)	
		HDBaseT	Up to 330 ft. approx. (100 m)	
Function	Scan Converter	Aspect ratio control, Seamless switching, Picture adjustment (brightness, contrast, display position, display size), Picture-in picture		
	Others	Volume adjustment (volume of input and output ports can be set separately), Cross-point memory (storage for 4 settings), Preset memory (8 settings and startup settings), Last memory, Anti-snow, Connection Reset, Front panel security lockout, Auto input detection and switching		
External control	Serial control port	Number / Signal	1 port / RS-232C	
		Connector	1 terminal block (5-pin)	
	LAN control port	Number / Signal	1 port / 10Base-T (Auto Negotiation), 100Base-TX (Auto Negotiation), Auto MDI/MDI-X	
Others	Power	Connector	1 RJ-45	
	Power consumption	Input: 100 - 240 VAC ± 10%, 50 Hz / 60 Hz ± 3 Hz Output: 12VDC 4.2A (power supply unit is supplied)		
	Dimensions	TBD(EIA rack 1/2U, not including projections)		
	Weight	TBD		
	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)		