**Digital Multi Switcher**

**MSD-S72**

The MSD-S72 is a digital presentation switcher with seven inputs and two outputs. For video, seven digital and two analog inputs accept a wide variety of video formats including HDMI, DVI, Composite video, Y/C, RGB, and YPbPr. Input video signals are output to HDBaseT and HDMI signals simultaneously at up to QWXGA or 1080p. Two selected input video signals can be displayed on a single screen in picture-in-picture or side-by-side layout. The overlay bitmap function is also supported.

The MSD-S72 includes seven digital and three analog audio inputs and outputs audio to both of digital and analog connectors. Audio level of each input/output can be set individually. The Lip Sync function adjusts the gap between video and audio.

The MSD-S72 can be configured remotely from RS-232C and LAN while external devices can be controlled via RS-232C, LAN, CEC, or control by registering control commands. The waiting function helps you to send external commands after cooling time passes as power supply control of projectors or the like. External control commands can be executed from front buttons, RS-232C, or LAN; they can also be executed when input channel selection buttons or power supply button is operated.

### Specification

<table>
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<th>Item</th>
<th>Description</th>
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<tr>
<td><strong>Video</strong></td>
<td>HDMI/DVI 7 inputs, DVI connectors: Switch-selectable between digital and analog, TMDS single link, HDCP 1.4, TMDS clock: 25 MHz to 225 MHz, TMDS data rate: 0.75 Gbps to 6.75 Gbps, 30 bit Deep Color/CEC (HDMI connector only), x.v.Color/3D/ARC/HEC/HDR are not supported. Built-in cable EQ, EDID emulation. Connector: 2 female HDMI Type A (19-pin), 2 female DVI-I (29-pin).</td>
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<td>Universal Analog 2 inputs, Switch-selectable between digital and analog, Composite video/Y/C/Analog RGB/Analog YPbPr (Auto-recognition), Composite video: 1.0 Vp-p/75 Ω, Y/C: 1.0 Vp-p/Y0.286 Vp-p/C, YPbPr: 0.7 Vp-p/1.0 Vp-p Sync on Green, 0.7 Vp-p, HS/VS TTL level, CS TTL level, Sync on Green. Analog YpPbPr: 1.0 Vp-p/0.7 Vp-p/Pb/PrY/75 Ω, EDID emulation. Connector: 2 female DVI-I (29-pin).</td>
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<td><strong>Audio</strong></td>
<td>HDMI/DVI VGA to QWXGA (Dot clock: 25 MHz to 165 MHz). For WUXGA/QWXGA, only Reduced Blanking is supported. 480i / 480p / 576i / 576p / 720p / 1080i / 1080p. Universal Analog VGA to QWXGA (Dot clock: 25 MHz to 165 MHz). For WUXGA/QWXGA, only Reduced Blanking is supported. NTSC / PAL 480i / 480p / 576i / 576p / 720p / 1080i / 1080p. Digital 7 inputs, Switch-selectable between analog audio, 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. Connector: 5 female HDMI Type A (19-pin), 2 female DVI-I (29-pin). Analog 3 inputs, Switch-selectable between digital audio, Unbalanced Stereo LR, Reference level: -20 dBFS, Max. input level: 0 dBFS. Connector: 3 captive screw (3-pin).</td>
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<td><strong>Output</strong></td>
<td>HDMI/DVI 2 outputs, Video can be distributed to HDMI/DVI outputs and HDBaseT outputs simultaneously, 480i / 480p / 576i / 576p / 720p / 1080i / 1080p. TMDS single link, HDCP 1.4, TMDS clock: 25.175 MHz to 202.5 MHz, TMDS data rate: 0.755 Gbps to 6.075 Gbps, 30 bit Deep Color/CEC, x.v.Color/3D/ARC/HEC/HDR are not supported. Built-in cable EQ. Connector: 2 female HDMI Type A (19-pin). HDBaseT 2 outputs, Video can be distributed to HDMI/DVI outputs and HDBaseT outputs simultaneously, HDCP 1.4, 30 bit Deep Color/CEC, x.v.Color/3D/ARC/HEC/HDR are not supported. RS-232C/LAN Connector: 2 x RJ-45 (11), Cable: CAT.5E HDC, Cat5e UTP/STP, Cat6 UTP/STP (T568A/T568B straight-through). Digital 2 x 2 outputs, Audio can be distributed to HDMI/DVI outputs and HDBaseT outputs simultaneously, 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: 2 female HDMI Type A (19-pin), 2 RJ-45. Analog 2 output, Unbalanced Stereo LR, Reference level: 50 Q, Max. output level: +10 dBu. Connector: 2 captive screw (3-pin).</td>
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MSD-S72
### Functions

- **Video**
  - Motion adaptive interlaced/progressive conversion, Aspect ratio control, Picture adjustment (brightness, contrast, image position, image size, etc.), Seamless Switching, Two video combinations: PinP and side-by-side, Pattern memory (5 settings), Each video output OFF, Bilinear display

- **Audio**
  - Input level offset control, Output level control, Lip Sync (Max. 70 ms.), Audio Downmix

- **Others**
  - WEB browser control, Input channel automatic switching, Audio breakaway for independent audio and video switching, Crosspoint memory (9 settings), Preset memory (8 settings), Last memory, Anti-Snow, Connection Reset (*5), External control commands (32 commands), Button security lockout, System check, HDBaseT status display, Standby switch

### General

- **Power**
  - 100 - 240 VAC ±10%, 50 Hz/60 Hz ±3 Hz
  - Power consumption: About 48 Watts

- **Dimensions**
  - 16.9 (W) x 1.7 (H) x 11.8 (D) (430 (W) x 44 (H) x 300 (D) mm) (1U high) (Excluding connectors and the like)

- **Weight**
  - 9 lbs. (4.1 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)

### Front & Rear Panels

- **RJ-45 (HDBaseT connector) is only for extending digital video and audio signals over a Cat5e/Cat6 cable. Use it with IDK’s HDBaseT Products. Do not use for LAN devices.**

- **The maximum cable distance is the shorter distance of connected HDBaseT product or sink device’s maximum transmission distance.**

- **The maximum transmission distance was obtained when IDK’s CAT.5E HDC cable was used. 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.**

- **Some sink devices cannot be controlled from the MSD-S through CEC.**

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

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