The MSD-S52 is a digital presentation switcher with five inputs and two outputs. For video, five digital and one 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-S52 includes five 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-S52 can be configured remotely from RS-232C and LAN while external devices can be controlled via RS-232C, LAN, CEC, or contact closure 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>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI/DVI</td>
<td>5 inputs, 1 output; Switch-selectable between digital and analog; HDMI/DVI 1.0; 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.x.Color/3D/ARC/HEC/HDR are not supported; Built-in cable EQ, EDID emulation; Connector: 4 female HDMI Type A (19-pin), 1 female DVI-I (29-pin).</td>
</tr>
<tr>
<td>Universal Analog</td>
<td>1 input, 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/Y(C), 0.286 Vp-p(C)/75 Ω; Analog RGB: 0.7 Vp-p/1.0 Vp-p[C] Sync on Green)75 Ω; HSVS TTL level, CS TTL level, Sync on Green; Analog YPbPr: 1.0 Vp-p[Y(C), 0.7 Vp-p[C] Sync on Green); EDID emulation; Connector: 1 female DVI-I (29-pin).</td>
</tr>
<tr>
<td>Audio</td>
<td>3 inputs, Switch-selectable between digital audio; Unbalanced Stereo LR; Reference level: -20 dBFS, Max. output level: 0 dBFS; Multi-channel LPCM up to 8 channels;Connector: 3 captive screw (3-pin).</td>
</tr>
<tr>
<td>HDMI/DVI</td>
<td>2 outputs, Video can be distributed to HDMI/DVI outputs and HDBaseT outputs simultaneously; HDMI/DVI 1.0; 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.x.Color/3D/ARC/HEC/HDR are not supported; Built-in cable EQ; Connector: 2 female HDMI Type A (19-pin).</td>
</tr>
<tr>
<td>HDBaseT</td>
<td>2 outputs, Video can be distributed to HDMI/DVI outputs and HDBaseT outputs simultaneously; HDBaseT 1.0; 30 bit Deep Color/CEC; x.x.Color/3D/ARC/HEC/HDR are not supported; RS-232C/LAN; Connector: 2 RJ-45 (1); Cable: CAT.5E HDC, Cat5e UTP/STP, Cat6 UTP/STP (T568A/T568B straight-through).</td>
</tr>
<tr>
<td>Digital</td>
<td>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.</td>
</tr>
<tr>
<td>Analog</td>
<td>2 outputs, Unbalanced Stereo LR; Reference level: 50 Ω; Connector: 2 captive screw (3-pin).</td>
</tr>
</tbody>
</table>

---

*All specifications and drawings are subject to change without notice. Please do not use the supplied AC adapter and power supply cable for other products. HDBaseT and the HDBaseT Alliance Logo are trademarks of the HDBaseT Alliance. The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries. HDBaseT is a trademark in Japan, the United States, and other countries/regions. The terms Anti-snow and Connection Reset are registered trademarks of IDK Corporation in Japan. All other company and product names mentioned in this document are either registered trademarks or trademarks of their respective owners. In this document, the “™” or “®” marks may not be specified.*
**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, Bitmap 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 42 Watts
- **Dimensions**: 16.9 (W) × 1.7 (H) × 11.8 (D) (430 (W) × 44 (H) × 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**

- **Control**: RS-232C, LAN, HDBaseT, Contact closure, PJLink (class 1), CEC (Power control of sink device) (*4)
- **RJ-45 (Cat5e/Cat6)**: 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.
- **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.

---

*1 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.

*2 The maximum cable distance depends on the connected devices. 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.

*3 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.

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

*5 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.

---

IDK Corporation

MSD-S52