The IDK MSD-6208 is a high-performance digital multi switcher with a scan converter and up to 8 inputs and 8 outputs.

For video input, 8 digital and 2 analog inputs are included and the following signals are supported: HDMI, DVI, HDBaseT, composite video, Y/C, analog RGB, and analog YPbPr signals. HDBaseT input supports Power over HDBaseT (PoH) that can power the connected devices. Input video signals are converted to HDMI/DVI or HDBaseT signals and output at a resolution up to 4K@30.

For audio input, 8 digital and 2 analog inputs are included. Selected audio signals are output to digital audio, and 1 of 8 digital audio outputs can be selected to be output as analog audio. The lip sync function corrects the gap between the video and audio.

This switcher also has RS-232C and LAN ports as communication ports for control to enable you to set menus remotely. You can also control external devices that are connected to the MSD-6208 over RS-232C, LAN, CEC, or contact closure by registering external 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 keys, RS-232C, or LAN; they can also be executed when input channel selection keys or power supply key is operated.

Dante output is available as an optional extra. With the network audio, 64-channel at 48 kHz-sample frequency audio can be delivered over a LAN cable.

### Specification

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HDMI/DVI</strong></td>
<td>1 input</td>
</tr>
<tr>
<td>HDMI Deep Color (*1)/DVI 1.0</td>
<td></td>
</tr>
<tr>
<td>TMDS single link, HDCP 1.4</td>
<td></td>
</tr>
<tr>
<td>TMDS clocks: 25 MHz to 300 MHz, TMDS data rate: 0.75 Gbps to 9 Gbps</td>
<td></td>
</tr>
<tr>
<td>Built-in cable EQ, EDID emulation, CEC</td>
<td></td>
</tr>
<tr>
<td>Connector: Female HDMI Type A (19-pin)</td>
<td></td>
</tr>
<tr>
<td><strong>HDMI/DVI</strong></td>
<td>5 inputs</td>
</tr>
<tr>
<td>DVI connectors: Switch-selectable between digital and analog</td>
<td></td>
</tr>
<tr>
<td>HDMI Deep Color (*1)/DVI 1.0</td>
<td></td>
</tr>
<tr>
<td>TMDS single link, HDCP 1.4</td>
<td></td>
</tr>
<tr>
<td>TMDS clocks: 25 MHz to 225 MHz, TMDS data rate: 0.75 Gbps to 6.75 Gbps</td>
<td></td>
</tr>
<tr>
<td>Built-in cable EQ, EDID emulation, CEC (HDMI connector only)</td>
<td></td>
</tr>
<tr>
<td>Connector: 3 female HDMI Type A (19-pin), 2 female DVI-I (29-pin)</td>
<td></td>
</tr>
<tr>
<td><strong>HDBaseT</strong></td>
<td>2 inputs</td>
</tr>
<tr>
<td>HDBaseT (*1)</td>
<td></td>
</tr>
<tr>
<td>HDCP 1.4 (*2)</td>
<td></td>
</tr>
<tr>
<td>EDID emulation, RS-232C, LAN, CEC, PoH power supply (IEEE 802.3af) (*3)</td>
<td></td>
</tr>
<tr>
<td>Connector: RJ-45 (*4)</td>
<td></td>
</tr>
<tr>
<td><strong>Video</strong></td>
<td>2 inputs</td>
</tr>
<tr>
<td>Switch-selectable between digital and analog</td>
<td></td>
</tr>
<tr>
<td>Composite video/Y/C/Analog RGB/Analog YPbPr (auto-recognition)</td>
<td></td>
</tr>
<tr>
<td>Composite video (VBS Signal): 1.0 V[p-p]/75 Ω</td>
<td></td>
</tr>
<tr>
<td>Y/C: 1.0 V[p-p]/0.286 V[p-p]/75 Ω</td>
<td></td>
</tr>
<tr>
<td>Analog RGB: 0.7 V[p-p]/1.0 V[p-p] Sync on Green)/75 Ω</td>
<td></td>
</tr>
<tr>
<td>HS/VS TTL level, CS TTL level, Sync on Green</td>
<td></td>
</tr>
<tr>
<td>Analog YPbPr: 1.0 V[p-p]/0.7 V[p-p]/75 Ω</td>
<td></td>
</tr>
<tr>
<td>EDID emulation</td>
<td></td>
</tr>
<tr>
<td>Connector: Female DVI-I (29-pin)</td>
<td></td>
</tr>
<tr>
<td><strong>Universal</strong></td>
<td>2 inputs</td>
</tr>
<tr>
<td>Analog RGB</td>
<td></td>
</tr>
<tr>
<td>Analog YPbPr</td>
<td></td>
</tr>
<tr>
<td><strong>Analog</strong></td>
<td>1 input</td>
</tr>
<tr>
<td>VGA to 4K (Dot clock: 25 MHz to 300 MHz)</td>
<td></td>
</tr>
<tr>
<td>480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K (up to 4K@30)</td>
<td></td>
</tr>
<tr>
<td><strong>Format</strong></td>
<td>5 inputs</td>
</tr>
<tr>
<td>VGA to QWXGA (Dot clock: 25 MHz to 165 MHz)</td>
<td></td>
</tr>
<tr>
<td>480i / 480p / 576i / 576p / 720p / 1080i / 1080p</td>
<td></td>
</tr>
<tr>
<td>For WUXGA/QWXGA, only Reduced Blanking is supported.</td>
<td></td>
</tr>
<tr>
<td>HDMI Deep Color (*1)</td>
<td></td>
</tr>
<tr>
<td>HDMI Type A (19-pin), 2 female DVI-I (29-pin)</td>
<td></td>
</tr>
<tr>
<td><strong>Realm</strong></td>
<td>8 inputs</td>
</tr>
<tr>
<td>Switch-selectable between analog audio</td>
<td></td>
</tr>
<tr>
<td>Multi-channel LPCM up to 8 channels</td>
<td></td>
</tr>
<tr>
<td>Sampling frequency: 32 kHz to 192 kHz, Sample size: 16 bit to 24 bit</td>
<td></td>
</tr>
<tr>
<td>Reference level: -20 dBFS, Max. input level: 0 dBFS</td>
<td></td>
</tr>
<tr>
<td>Connector: 4 female HDMI Type A (19-pin), 2 RJ-45 (*4), 2 female DVI-I (29-pin)</td>
<td></td>
</tr>
<tr>
<td><strong>Analog</strong></td>
<td>2 inputs</td>
</tr>
<tr>
<td>Switch-selectable between digital audio</td>
<td></td>
</tr>
<tr>
<td>Balanced/Unbalanced Stereo LR</td>
<td></td>
</tr>
<tr>
<td>48k Ω balanced/24 kΩ unbalanced</td>
<td></td>
</tr>
<tr>
<td>Reference level: -10 dBu, Max. input level: +10 dBu</td>
<td></td>
</tr>
<tr>
<td>Connector: Terminal block (5-pin)</td>
<td></td>
</tr>
</tbody>
</table>

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IDK Corporation
T568A or T568B straight. The CAT.5E HDC cable is developed by IDK and recommended by HDBaseT alliance.

If multiple sink devices are connected, the actual number of outputs becomes three: OUT1 and OUT2 (as one group), OUT3 and OUT4 (as another group), and OUT5 to OUT6

The maximum cable distance varies depending on the connected devices and was measured under following conditions:

*4  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.

*6  4K format is not supported.

*9  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.

*11  If multiple sink devices are connected, the actual number of outputs becomes two: OUT1 to OUT4 (as a group) and OUT5 to OUT6 (as another group).

*12  4K format is not supported.

*13  The anti-snow feature automatically fixes snow noise that is a specific symptom of HDCP-compliant signals and mainly occurs at start-up. This feature does not work when snow noise has already occurred during startup or when it occurs due to a bad condition of the transmission line.

*1  30 bit/pixel (10 bit/component) Deep Color is supported while x.v.Color, 3D, ARC and HEV are not supported.

*2  HDBaseT input/output: DVI signals protected by HDCP are not supported. To transmit those signals, use an IDK's HDBaseT Products supporting DVI signals.

*3  For PoE power feeding, please use an HDBaseT transmitter supporting IEEE 802.3af. Use an 24 AWG category cable or thicker cable.

*4  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.

*5  T568A or T568B straight. The CAT.5E HDC cable is developed by IDK and recommended by HDBaseT alliance.

*6  4K format: Up to 4K@30 is supported. If multiple sink devices are connected, the actual number of outputs becomes three: OUT1 and OUT2 (as one group), OUT3 and OUT4 (as another group), and OUT5 to OUT6 (as the other group).

*7  RJ-45 (Dante connector) is only for outputting audio at the Dante format.

*8  The maximum cable distance varies depending on the connected devices and was measured under following conditions:

- 1080p@60: When IDK's 24 AWG cable was used and signals of 1080p@60 24 bit/pixel (8 bit/component) was input or output.
- 4K@30 : When IDK's 24 AWG cable was used and signals of 4K@30 24 bit/pixel (8 bit/component) was input or output.

The maximum cable distance 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.

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. Operations may not be stable with some LCD devices; please check the operation beforehand or contact us.

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

Up to 492 ft. (150 m): 1080p (24 bit) in Long reach mode. For Long reach mode, use IDK's HDBaseT Products that supports 328 ft. (100 m) or longer.

Seamless switching with a black frame.

If multiple sink devices are connected, the actual number of outputs becomes two: OUT1 to OUT4 (as a group) and OUT5 to OUT6 (as another group).

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<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video</td>
<td><strong>HDMI/DVI</strong> 8 outputs</td>
</tr>
<tr>
<td>Format</td>
<td>VGA / WXGA (1280x768) / WXGA (1366x768) / QHD-VGA / SXGA / WXGA / QWXGA (1920x1080)</td>
</tr>
<tr>
<td>Digital</td>
<td>8 outputs</td>
</tr>
<tr>
<td>Audio</td>
<td>Analog 1 output</td>
</tr>
<tr>
<td>Maximum transmission distance</td>
<td><strong>Digital Input</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Digital output</strong></td>
</tr>
<tr>
<td>Control</td>
<td><strong>RS-232C</strong> 1 port/terminal block (3-pin)</td>
</tr>
<tr>
<td>Power</td>
<td><strong>General</strong></td>
</tr>
</tbody>
</table>

*1  30 bit/pixel (10 bit/component) Deep Color is supported while x.v.Color, 3D, ARC and HEV are not supported.

*2  HDBaseT input/output: DVI signals protected by HDCP are not supported. To transmit those signals, use an IDK’s HDBaseT Products supporting DVI signals.

*3  For PoE power feeding, please use an HDBaseT transmitter supporting IEEE 802.3af. Use a 24 AWG category cable or thicker cable.

*4  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.

*5  T568A or T568B straight. The CAT.5E HDC cable is developed by IDK and recommended by HDBaseT alliance.

*6  4K format: Up to 4K@30 is supported. If multiple sink devices are connected, the actual number of outputs becomes three: OUT1 and OUT2 (as one group), OUT3 and OUT4 (as another group), and OUT5 to OUT6 (as the other group).

*7  RJ-45 (Dante connector) is only for outputting audio at the Dante format.

*8  The maximum cable distance varies depending on the connected devices and was measured under following conditions:

- 1080p@60: When IDK’s 24 AWG cable was used and signals of 1080p@60 24 bit/pixel (8 bit/component) was input or output.
- 4K@30 : When IDK’s 24 AWG cable was used and signals of 4K@30 24 bit/pixel (8 bit/component) was input or output.

The maximum cable distance 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.

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. Operations may not be stable with some LCD devices; please check the operation beforehand or contact us.

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

Up to 492 ft. (150 m): 1080p (24 bit) in Long reach mode. For Long reach mode, use IDK’s HDBaseT Products that supports 328 ft. (100 m) or longer.

Seamless switching with a black frame.

If multiple sink devices are connected, the actual number of outputs becomes two: OUT1 to OUT4 (as a group) and OUT5 to OUT6 (as another group).

*10  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.

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

*15 The sink device must support CEC. Some sink devices cannot be controlled from the MSD through CEC.

■ Front & Rear Panels

*Dante output is optional.
 MSD-6208 Diagram and Features

### Diagram

- **DIAGRAM**
  - **IN1 to IN7, IN8 (CH1 to CH4)**
    - Scan converter
    - Digital video/audio
    - HDMI
    - DVI
    - Analog video
    - Composite
    - Y/C
    - RGB
    - YPbPr
    - 2 Inputs
    - 2 Inputs
  - **IN7 to IN8**
    - Digital
    - Outputs
    - Up to 98 ft. (30 m)*1
    - Digital video/audio
    - HDMI
    - DVI Inputs
    - 3 Inputs
    - EDID emulator
    - Input EQ
    - Up to 98 ft. (30 m)*1
    - **IN2 to IN4**
      - Digital
      - Outputs
      - Up to 98 ft. (30 m)*1
      - Digital video/audio
      - HDMI
      - DVI
      - Outputs
      - 8
      - Digital video/audio
      - HDMI
      - DVI
      - Outputs
      - 8
      - **INPUTS**
        - Dante*4
        - LAN
        - Primary/Secondary
        - 1 Port
        - Transmitter
        - Receiver
        - Video matrix switch
        - 8 ch
        - Audio matrix switch
        - 8 ch
        - Up to 328 ft. (100 m)*3
        - Up to 328 ft. (100 m)*3
        - **OUTPUTS**
          - Video
          - Combination
          - 8
          - **OTHERS**
            - CPU
            - HUB
            - **NOTES**
              - Maximum transmission distances
                - Up to 98 ft. (30 m) : 1080p@60
                - Up to 66 ft. (20 m) : 4K@30 (IN1 only)
                - Up to 131 ft. (40 m) : 1080p@60
                - Up to 98 ft. (30 m) : 4K@30
                - Up to 328 ft. (100 m) : 4K@30
                - Up to 492 ft. (150 m) : 1080p (24 bit) in Long reach mode
                - For long reach mode, video signals up to 1080p (24 bit) can be transmitted to 492 ft. (150 m) at maximum
                - if using with IDK’s HDBaseT products supporting 328 ft. (100 m) transmission.
              - *4 Dante output is optional.

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Application Example

<Regular mode: Full HD Video>

A

B

Blu-ray player

HDMI/DVI
Up to 131 ft. (40 m)

Full HD

Monitor

Screen

Projector
(P/Link)

Analog audio

Power amp.
(Dante supported)

Power amp.

HDBaseT receiver

Category cable
Up to 328 ft. (100 m)

HDMI/DVI

Analog audio

Dante supported

Network audio

HDC-TM100WP

Mixer

Microphone

Laptop

HDMI/DVI

Full HD

Screen

Category cable
Up to 328 ft. (100 m)\(^2\)

Category cable
Up to 328 ft. (100 m)\(^2\)

HDMI/DVI
Up to 98 ft. (30 m)

Blu-ray player

HDMI/DVI
Up to 98 ft. (30 m)

Blu-ray player

HDMI/DVI
Up to 98 ft. (30 m)

Blu-ray player

HDMI/DVI
Up to 98 ft. (30 m)

HDMI/DVI
Up to 98 ft. (30 m)

\(^1\) Dante output is optional.

\(^2\) Maximum transmission distances:
Up to 328 ft. (100 m) : 4K@30
Up to 492 ft. (150 m) : 1080p (24 bit) in Long reach mode

For long reach mode, video signals up to 1080p (24 bit) can be transmitted to 492 ft. (150 m) at maximum if using with IDK’s HDBaseT products supporting 328 ft. (100 m) transmission.

IDK Corporation

MSD-6208
<Image combination mode: Full HD Video (Multiview)>

A

B

C

D

Full HD

Blu-ray player

Full HD

Blu-ray player

Full HD

Blu-ray player

Full HD

Blu-ray player

HDMI/DVI

Up to 98 ft. (30 m)

HDMI/DVI

Up to 98 ft. (30 m)

HDMI/DVI

Up to 98 ft. (30 m)

HDMI/DVI

Up to 98 ft. (30 m)

OUT1

OUT2

OUT3

OUT4

HDMI/DVI

Up to 131 ft. (40 m)

HDMI/DVI

Up to 131 ft. (40 m)

HDMI/DVI

Up to 131 ft. (40 m)

HDMI/DVI

Up to 131 ft. (40 m)

Network audio*1

Category cable

HDMI/DVI

Up to 328 ft. (100 m)2

HDMI/DVI

Up to 328 ft. (100 m)2

HDMI/DVI

Up to 328 ft. (100 m)2

HDMI/DVI

Up to 328 ft. (100 m)2

HDC-TH100WP

HDC-TH100WP

Laptop

Laptop

Laptop

Laptop

Full HD

Full HD

Full HD

Full HD

*1 Dante output is optional.
*2 Maximum transmission distances

Up to 328 ft. (100 m): 4K@30
Up to 492 ft. (150 m): 1080p (24 bit) in Long reach mode

For long reach mode, video signals up to 1080p (24 bit) can be transmitted to 492 ft. (150 m) at maximum if using with IDK's HDBaseT products supporting 328 ft. (100 m) transmission.
### <4K mode: 4K Video>

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4K monitor, 4K@30, Blu-ray player, HDMI/DVI Up to 66 ft. (20 m)</td>
</tr>
<tr>
<td>B</td>
<td>4K monitor, 4K@30, Blu-ray player, HDMI/DVI Up to 98 ft. (30 m)</td>
</tr>
<tr>
<td>C</td>
<td>4K monitor, 4K@30, Blu-ray player, HDMI/DVI Up to 98 ft. (30 m)</td>
</tr>
<tr>
<td>D</td>
<td>4K monitor, 4K@30, Blu-ray player, HDMI/DVI Up to 98 ft. (30 m)</td>
</tr>
</tbody>
</table>

- Category cable Up to 328 ft. (100 m)
- HDMI/DVI Up to 98 ft. (30 m)
- Composite video/Y/C/Analog RGB/Analog YPbPr
- Laptop, 4K@30
- Laptop, Full HD

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[Features]

■ Video
  • Up to 4K@30
  • Automatic input signal equalization
    Input  Up to 98 ft. (30 m) : 1080p@60, Up to 66 ft. (20 m) : 4K@30
    Output Up to 131 ft. (40 m) : 1080p@60, Up to 98 ft. (30 m) : 4K@30
  • Motion adaptive interlaced/progressive conversion
  • Scan conversion
  • Aspect ratio control
  • Horizontal flip
  • Seamless switching with one black frame
  • Analog/Digital conversion
  • Anti-snow
  • Up to 492 ft. (150 m) over a Cat6 cable in Long reach mode

■ Audio
  • Embedding/De-embedding
  • Volume adjustment (Input/Output)
  • Lip Sync
  • Audio Downmix
  • Dante output (Optional)

■ Video combination
  • Simultaneous display of up to 4 input images on a screen
  • Window display priority setting
  • Window displaying/hiding

■ Control Input
  • RS-232C
  • LAN

■ Control output
  • Control command output (e.g. controlling projectors)
  • PJLink
  • CEC (Control sink device power)
  • Contact closure

■ Others
  • PoH (HDBaseT input)
  • EDID emulation
  • WEB browser control
  • Input channel automatic switching
  • Audio breakaway for independent audio and video switching
  • Crosspoint memory
  • Preset memory
  • Last memory
  • Connection Reset
  • Button security lockout
  • HDBaseT: RS-232C, LAN and CEC are supported
  • Standby switch

*1 4K format is not supported.
*2 For long reach mode, video signals up to 1080p (24 bit) can be transmitted to 492 ft. (150 m) at maximum if using with IDK's HDBaseT products supporting 328 ft. (100 m) transmission.