

PRODUCT CATALOG

2022



AVMATRIX®

Multiformat Video Switcher
PTZ Camera
Matrix Switcher
USB Capture
Video Encoder
Multiviewer
Fiber Optic Extender
Video Signal Converter
Video Signal Generator
Distribution Amplifier

Note: due to constant effort to improve products and product features, specifications may change without notice.



avmatrix.com

AVMATRIX®
www.avmatrix.com

VIDEO SWITCHER

Seamless Multi-format video switcher with audio mixer, choma/luma key, PoP/PIP, and USB capture out for live streaming.



MULTI-FORMAT

Inputs signal is auto-detected while PGM output can be scaled, which is compatible with more different equipments and more flexible in various applications. They can be used in wide variety of venues for events, seminars, etc.

VIDEO SWITCHER

Model No.: **HVS0402U**

MICRO 4CH STREAMING SWITCHER

Feature



HDMI 1.4 **USB 2.0**



HDMI 1.4 **DP** **USB 2.0**

Model No.: **HVS0401E**

MICRO 4CH STREAMING SWITCHER

Feature



VIDEO SWITCHER



Model No.: PVS0615U
6CH PORTABLE VIDEO SWITCHER

Feature

- Portable All-In-One design
- 15.6 inch FHD LCD display
- Uncompressed USB capture for streaming
- Input: 4xSDI and 2xDVI-I/ HDMI/ VGA/ USB player
- PGM Output: 3xSDI(1xPVW), 2xHDMI
- Multiview output: 1xHDMI
- Auto-detected multi-format inputs
- Output format selectable
- T-Bar/ AUTO/ CUT transitions
- MIX/ FADE/ WIPE/ FTB effects
- Luma Key/ Chroma Key for virtual studio
- PIP/ POP window size and position adjustable
- Record PGM video to SD card, up to 1080p60
- Audio mixer: TRS audio & SDI, HDMI, USB audio
- GPIO port for tally system

3G-SDI HDMI-1.4 DVI VGA USB USB 3.0

Model No.: PVS0613U
6CH PORTABLE VIDEO SWITCHER

Feature

- Portable All-In-One design
- 13.3 inch HD LCD display
- Uncompressed USB capture for streaming
- Input: 4xSDI and 3xHDMI
- Output: 2xSDI PGM, 1xHDMI PGM, 1xSDI PVW
- Multiview output: 1xSDI and 1xHDMI
- Auto-detected multi-format inputs
- Output format selectable
- T-Bar/ AUTO/ CUT transitions
- MIX/ FADE/ WIPE/ FTB effects
- PIP/ POP window size and position adjustable
- Audio mixer: 3.5mm/ RCA & SDI/ HDMI audio
- GPIO port for tally system

3G-SDI HDMI-1.4 USB 3.0

VIDEO SWITCHER



Model No.: VS0605U
6CH MULTIFORMAT VIDEO SWITCHER

Feature

- Uncompressed USB capture for streaming
- Input: 4xSDI and 2xDVI-I/HDMI/VGA/USB player
- Output: 2xSDI & 1xHDMI PGM, 1xSDI PVW
- Multiview output: 1xSDI and 1xHDMI
- Auto-detected multi-format inputs
- Output format selectable
- Input format auto-detected
- Output format selectable
- PTZ camera control: Visca & Pelco protocol
- T-Bar/ AUTO/ CUT transitions
- MIX/ FADE/ WIPE effects
- Luma Key/ Chroma Key for virtual studio
- PIP/ POP window size and position adjustable
- Record PGM video to SD card, up to 1080p60
- Audio mixer: XLR/RCA & SDI, HDMI, USB audio
- GPIO port for tally system

3G-SDI HDMI-1.4 DVI VGA USB USB 3.0

Model No.: VS0601U
6CH MULTIFORMAT VIDEO SWITCHER

Feature

- Uncompressed USB capture for streaming
- Input: 4xSDI and 3xHDMI
- Output: 2xSDI PGM, 1xHDMI PGM, 1xSDI PVW
- Multiview output: 1xSDI and 1xHDMI
- Auto-detected multi-format inputs
- Output format selectable
- Output format selectable
- T-Bar/ AUTO/ CUT transitions
- MIX/ FADE/ WIPE/ FTB effects
- PIP/ POP window size and position adjustable
- Audio mixer: 3.5mm/ RCA & SDI/ HDMI audio
- GPIO port for tally system

3G-SDI HDMI-1.4 USB 3.0

USB CAPTURE DEVICES

USB capture series are professional devices to capture uncompressed SDI or HDMI signal over USB for graphics capture, streaming, recording on your PC or Mac.



UNCOMPRESSED CAPTURE

USB capture products support drive-free and power-free. And it supports the output of uncompressed USB3.0 YUY2 high-quality images, convenient for applications in various fields such as broadcasting, live streaming, medical education, and video conferencing.

USB CAPTURE

Model No.: **UC2018**

SDI/HDMI USB3.1 GEN1 CAPTURE BOX

Feature



- Plug-and-Play, driver free & power free
- SDI/HDMI in, and USB 3.1 Gen1(USB3.0) out
- 3.5mm line audio in
- Automatic input signal detection, up to 1080p60
- Uncompressed via USB 3.1 Gen1(USB3.0)
- UVC video capture and YUY2 video output
- UAC audio out from HDMI audio or line in
- Compatible with Windows, Linux, macOS
- Compatible with OBS, ZOOM, Teams & Twitch, etc.

3G-SDI HDMI-1.4 USB 3.0

Model No.: **UC1118**

SDI TO USB3.1 GEN1 CAPTURE BOX

Feature



- Plug-and-Play, driver free & power free
- SDI in, and USB 3.1 Gen1(USB3.0) out
- 3.5mm line audio in
- Automatic input signal detection, up to 1080p60
- Uncompressed via USB 3.1 Gen1(USB3.0)
- UVC video capture and YUY2 video output
- UAC audio out from HDMI audio or line in
- Compatible with Windows, Linux, macOS
- Compatible with OBS, ZOOM, Teams & Twitch, etc.

3G-SDI USB 3.0

Model No.: **UC1218**

HDMI USB3.1 GEN1 CAPTURE BOX

Feature



- Plug-and-Play, driver free & power free
- HDMI in, and USB 3.1 Gen1(USB3.0) out
- 3.5mm line audio in
- Automatic input signal detection, up to 1080p60
- Uncompressed via USB 3.1 Gen1(USB3.0)
- UVC video capture and YUY2 video output
- UAC audio out from HDMI audio or line in
- Compatible with Windows, Linux, macOS
- Compatible with OBS, ZOOM, Teams & Twitch, etc.

HDMI-1.4 USB 3.0

STREAMING ENCODER

The encoder can transmit video signals directly to various live streaming platforms over the network without the need for a smart phone or computer.



STREAMING MEDIA PROTOCOL

Encoder supports H.265/H.264 streaming encoding protocols up to 1080p60hz, and streaming protocols: RTSP, RTP, RTMPS, RTMP, HTTP, UDP, SRT, unicast and multicast.

STREAMING ENCODER

Model NO.: **SE1217**



H.265/264 HDMI STREAMING ENCODER

Feature

- 1×HDMI input, 1×HDMI loop out, 1×Analog audio input
- H.265/264 stream encode protocol, up to 1080p60hz
- Dual-stream (main stream and sub stream)
- RTSP, RTMPS, RTMP, HTTP, SRT, unicast, multicast
- Video and audio streaming or single audio streaming
- Image and text overlay
- Mirror image & upside-down image
- Live stream with no need for connecting a computer

HDMI-1.4 LAN

Model NO.: **SE1117**



H.265/264 SDI STREAMING ENCODER

Feature

- 1×SDI input, 1×SDI loop out, 1×Analog audio input
- H.265/264 stream encode protocol, up to 1080p60hz
- Dual-stream (main stream and sub stream)
- RTSP, RTMPS, RTMP, HTTP, SRT, unicast, multicast
- Video and audio streaming or single audio streaming
- Image and text overlay
- Mirror image & upside-down image
- Live stream with no need for connecting a computer

3G-SDI LAN

FULL HD PTZ CAMERA

AVMATRIX PTZ Cameras are industry's advanced live streaming pan, tilt, and zoom network connected cameras. Built for quality, made for professional video productions.



VARIOUS APPLICATIONS

PTZ cameras are used to produce video content for a variety of applications. Here is a short list of examples:

- Video Communications (Meetings, Webinars, Telemedicine, Distance Learning)
- Live Video Production (Events, Conferences, Studios)
- Live Streaming (Church Services, Product Launches, Sporting Events)

PTZ CAMERA & CONTROLLER

Model No.: **PTZ1271**

FULL HD HDMI/ SDI PTZ CAMERA

Feature



- 5x/10x/12x/20x/30x optical zoom lens for option
- HDMI, 3G-SDI & LAN output
- Control protocol: VISCA, PELCO-D/-P & Onvif
- LAN port for video stream: RTMP, RTSP & Onvif
- 3.5mm stereo audio(line-level) in
- Optional: PoE (Power Over Ethernet) & NDI | HX

3G-SDI

HDMI-1.4

LAN

Model No.: **PKC3000**

IP PTZ CAMERA CONTROLLER

Feature



- VISCA/VISCA Over IP/Pelco P&D/ONVIF protocols
- Support RS-422/RS-485/RS-232/IP control
- Automatically search and Assign IP addresses easily
- Control up to 255 IP cameras on a single network
- Metal housing with LCD display and 4D joystick
- 6 user-assignable keys to quickly invoke functions
- Quick control exposure/iris/focus/pan/tilt/etc
- Supports POE and 12V DC power supplies

RS-422

RS-485

RS-232

IP

RACKMOUNT DEVICES

Matrix switchers are designed to seamlessly switch 3G-SDI/HDMI video signals that comply with SMPTE and ITU standards.



COMPACT DESIGN

Unique and compact design, supports dual power redundancy, as well as easy installation in standard cabinets. Widely used in server room and PRO AV projects.

MULTIVIEWER & MATRIX



Model No.: **MMV1630**

16CH SDI MULTIVIEWER & SWITCHER

Feature

- 16CH multiview mode and 16x16 switcher mode
- Switcher input: 16x3G-SDI
- Switcher output: 16x3G-SDI
- Multiview output: 2x3G-SDI & 1xHDMI
- SDI input signal auto detection & equalization
- Full screen, and 20 preset multiview layouts
- Time code, UMD, signal status and audio meter
- Front panel buttons and knob control with LCD
- Dual power design, redundant power
- Free PC software control: LAN, RS-422

3G-SDI **HDMI-1.4**



Model No.: **MSS1611-S**

16x16 SEAMLESS MATRIX SWITCHER

Feature

- Input: 16x3G-SDI
- Output: 16x3G-SDI
- Seamless switching
- SDI input signal auto detection & equalization
- Free PC software control: LAN, RS-422
- Front panel buttons and knob control with LCD
- Dual power design, redundant power

3G-SDI



Model No.: **MSS0811**

8x8 SDI MATRIX SWITCHER

Feature

- Input: 8x3G-SDI
- Output: 8x3G-SDI
- SDI input signal auto detection & equalization
- Pass all ancillary data and embedded audio
- DVB-ASI interface compatible
- Free PC software control: LAN, RS-232
- Front panel buttons and knob control with LCD
- USB for keyboard control
- Dual power design, redundant power

3G-SDI

BROADCAST BOX SERIES

AVMATRIX focus on developing and manufacturing pro video processing devices, including video switcher, converter, multi-viewer, optical fiber extender, distribution amplifier, matrix switcher and signal generator, etc.



VARIOUS APPLICATIONS

AVMATRIX products are widely used in broadcast television, video conference, digital medical, security, education, industry and other video applications.

4K CONVERTER & EXTENDER



Model No.: SD1151-12G

1x5 12G-SDI DISTRIBUTION AMPLIFIER

Feature

- Input: 1x12G-SDI
- Output: 5x12G-SDI, 1xSFP(optional)
- Automatically detects SD, HD, 3G, 6G and 12G-SDI
- Support DVB-ASI signal
- Automatic cable equalization and signal retiming
- Pass all ancillary data and embedded audio
- 12V DC power supply
- Detachable bracket design for wall mounting

12G-SDI FIBER



Model No.: SD1121-12G

1x2 12G-SDI DISTRIBUTION AMPLIFIER

Feature

- Input: 1x12G-SDI
- Output: 2x12G-SDI
- Automatically detects SD, HD, 3G, 6G and 12G-SDI
- Support DVB-ASI signal
- Automatic cable equalization and signal retiming
- Pass all ancillary data and embedded audio
- 5V USB power supply
- Detachable bracket design for wall mounting

12G-SDI



Model No.: FE1121-12G

12G-SDI FIBER OPTIC EXTENDER

Feature

- 12G-SDI input & loopout on transmitter
- Dual 12G-SDI outputs on receiver
- Automatically detects SD, HD, 3G, 6G and 12G-SDI
- 10km transmission distance
- SFP / LC fiber transmitter & receiver
- Automatic cable equalization and signal retiming
- 5V USB power supply
- Detachable bracket design for wall mounting



12G-SDI FIBER

CONVERTER



Model No.: **SC2030**

3G-SDI / HDMI CROSS CONVERTER

Feature

- Input: 1×HDMI/ 3G-SDI, 1×analog audio
- Output: 2×3G-SDI, 1×HDMI
- Up/down scaling and frame rate conversion
- Input signal automatic detection and configuration
- Analog audio Embedding
- Control easily via the DIP switches & PC software
- USB Dual threaded DC power supply
- Detachable bracket design for wall mounting

3G-SDI HDMI-1.4



Model No.: **Mini SC1112**

3G-SDI TO HDMI MINI CONVERTER

Feature

- Input: 1×3G-SDI
- Output: 1×HDMI, 1×3G-SDI loop
- Input signal automatic detection and configuration
- LED indicators for power and state of input signal
- USB power supply
- Detachable bracket design for wall mounting

3G-SDI HDMI-1.4



Model No.: **Mini SC1221**

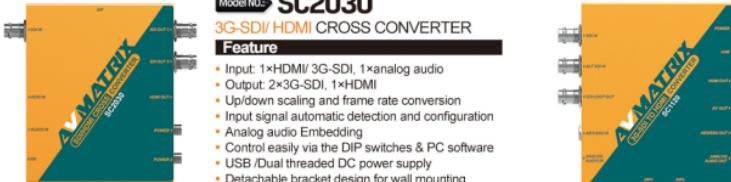
HDMI TO 3G-SDI MIN CONVERTER

Feature

- Input: 1×HDMI
- Output: 2×3G-SDI
- Input signal automatic detection and configuration
- LED indicators for power and state of input signal
- USB power supply
- Detachable bracket design for wall mounting

3G-SDI HDMI-1.4

CONVERTER&MULTIVIEWER



Model No.: **SC1120**

3G-SDI TO HDMI SCALING CONVERTER

Feature

- Input: 1×SDI, 1×Alt SDI, 1×AES, 1×audio
- Output: 1×SDI loop, 1×HDMI, 1×AV, 1×AES, 1×audio
- Up/down scaling and frame rate conversion
- AES or analog audio embedding & de-embedding
- Input signal automatic detection and configuration
- Control easily via the DIP switches
- Remote control for PC via USB
- Detachable bracket design for wall mounting

3G-SDI HDMI-1.4 **AV**



Model No.: **SC2031**

HDMI TO 3G-SDI SCALING CONVERTER

Feature

- Input: 1×HDMI, 1×AV, 1×AES/EBU, 1×analog audio
- Output: 3×3G-SDI, 1×AES/EBU, 1×analog audio
- Up/down scaling and frame rate conversion
- AES or analog audio embedding & de-embedding
- Input signal automatic detection and configuration
- Control easily via the DIP switches
- Remote control for PC via USB
- Detachable bracket design for wall mounting

3G-SDI HDMI-1.4 **AV**



Model No.: **MV0430**

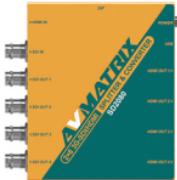
4CH 3G-SDI MULTIVIEWER

Feature

- Input: 4×3G-SDI
- Output: 2×3G-SDI and 2×HDMI multi-view
- 11 selectable SDI & HDMI output formats
- 16 preset layouts, full-screen & multi-view mode
- 11 character UMD overlay, custom position & color
- Audio level meter overlay, support custom position
- Control via the DIP, USB keyboard and PC
- 12V DC power supply
- Detachable bracket design for wall mounting

3G-SDI HDMI-1.4

DISTRIBUTOR



Model No.: **SD2080**

2x8 SDI/HDMI SPLITTER & CONVERTER

Feature

- Input: 1xHDMI/1x3G-SDI
- Output: 4x3G-SDI, 4xHDMI
- Distribute and convert between SDI & HDMI
- Input signal automatic detection and configuration
- Input and output support up to 1080p60
- Control easily via DIP switches
- USB and threaded locking power supply
- Detachable bracket design for wall mounting

3G-SDI **HDMI-1.4**



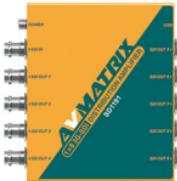
Model No.: **SD1141**

1x4 3G-SDI DISTRIBUTION AMPLIFIER

Feature

- Input: 1x3G-SDI
- Output: 4x3G-SDI
- Automatically detects SD, HD and 3G-SDI
- Output 2 & 4 support DVB-ASI signal
- Automatic cable equalization and signal retiming
- Pass all ancillary data and embedded audio
- LED indicators for power and signal lock
- USB/DC power supply
- Detachable bracket design for wall mounting

3G-SDI



Model No.: **SD1191**

1x9 3G-SDI DISTRIBUTION AMPLIFIER

Feature

- Input: 1x3G-SDI
- Output: 9x3G-SDI
- Automatically detects SD, HD and 3G-SDI
- Support DVB-ASI signal
- Automatic cable equalization and signal retiming
- Pass all ancillary data and embedded audio
- LED indicators for power and signal lock
- USB/DC power supply
- Detachable bracket design for wall mounting

3G-SDI

EXTENDER & GENERATOR



Model No.: **FE1121**

3G-SDI FIBER OPTIC EXTENDER

Feature

- 3G-SDI input & loopout on transmitter
- Dual 3G-SDI outputs on receiver
- SDI equalization and re-clocking
- Support 3Gbit Level A and Level B (all formats)
- 20km transmission distance
- SFP/ LC Fiber transmitter & receiver
- USB power supply
- Detachable bracket design for wall mounting

3G-SDI **FIBER**



Model No.: **PG4K**

12G-SDI / HDMI2.0 SIGNAL GENERATOR

Feature

- 12G-SDI single link, dual link, quad link (SQD/ 2S)
- Support 6G-SDI, 3G-SDI level A and level B
- Support 4k HDMI2.0 video outputs
- Support 12G-SDI fiber signal (SFP optional)
- 16-Channel SDI audio generation
- Built-in patterns: Color bar, pathology patterns
- USB Port for import the patterns
- time code, frame counter test and moving test
- REF in for frame synchronization

12G-SDI **HDMI-2.0** **FIBER**



Model No.: **TS3019**

WIRELESS TALLY SYSTEM

Features

- Transmission distance up to 200m in open space
- Transmitter with GPO/USB/RS-232
- Compatible with video switcher, Vmix, etc.
- Supports up to 12 tally lights
- Support wireless/wired tally connection
- RS232 wireless transmission for PTZ control
- USB or 18650 lithium battery power supply
- Red&green dual-color light and 4 brightness levels
- Supports signal strength and power status display
- Receiver light with hotshot 1/4 inch hole

