

AVMATRIX®

Multiformat Video Switcher PTZ Camera Matirx 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







MICRO 4CH STREAMING SWITCHER Feature

- 4 channel auto-detected HDMI inputs
- 1xHDMLPGM output & multiview out
- 1xLISB type-C output for canturing and streaming. AUX output configurable and assignable
- Clearly visible multiview & status name
- Upstream key: Luma key. Chroma key. PIP×2/ POP
- Downstream key and LOGO overlay.
- T-har/ Auto/ Cut transitions
- various effects: WIPE(9x2 patterns) / MIX/ DIP Audio miver HDMI audio and 2-Ch MIC/ line In
 - Audio delay available
 - 49 default natterns 2 color generators 16 captured images, 16 imported images.
 - I AN nort for PC software remote control
 - ETR/MLITE/STILL/GDIO for tally
 - Customer configuration import and export

HOMI USB2.0)



Model NO. HVS0401E

MICRO 4CH STREAMING SWITCHER Feature

- Inputs 1 to 3: HDMI Input 4: HDMI or DP
- Outputs: 1×HDMI PGM.1×HDMI multiview
- Recording & RTMP streaming. USB capture video (UVC) for live streaming
- . Auto/ Cut transitions and Mix / Fade / Wipe effects
- PiP function, adjustable size and position
- Audio mixer: 3.5mm stereo / RCA audio & HDMI. GPIO interface for live tally system
- FTB for emergency situation

MULTI-FORAMAT

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 VIDEO SWITCHER



ModelNO. PVSN4N3II

ACH DODTARI E VIDEO SWITCHER

Feature

- 10.1 inch EHD IPS I CD monitor
- Innut: 2xHDMI and 2x3G-SDI
- Output: 2xHDMI DCM 1x Multiview 1xLISB type.C.
- All outputs are configurable and assignable
- I ISB for conturing and streaming on PC
- Unstream key: Luma key: Chroma key: PIPx2/POP
- Downstream key and I OGO overlay
- T bor/ Auto/ Cut transitions Audio miver: 2xSDL 2xHDML audio & 2xMlC/line In
- Audio delay available
- 39 default natterns 16 imported images
- 16 captured images 2 color generators.
- I AN port for PC software remote control
- . ETR/MLITE/STILL affacts
- GPIO port for tally system



ModelNO: PVS061511

SCH PORTARI E VIDEO SWITCHER

Feature

- Portable All-In-One design 15.6 inch EHD I CD dieplay
- Uncompressed LISB capture for streaming.
- Input 4xSDI and 2xDVI-I/HDMI/VGA/LISB player
- PGM Output: 3xSDI(1xP\/W) 2xHDMI
- Multiview output: 1xHDMI
- Auto-detected mult-format inputs
- Output format selectable
- T-Bar/ AUTO/ CUT transitions MIX/ FADE/ WIPE/ ETB effects
- Luma Key/ Chroma Key for virtual studio
- PIP/ POP window size and position adjustable
- Pecord PGM video to SD card up to 1080p60 Audio mixer: TRS audio & SDI_HDMI_LISB audio
- GPIO port for tally system

2G-SDI) HOMT LISB 3.0)



ACH SDI&HDMI VIDEO SWITCHER

Feature

- Output: 2×HDMI PGM 1× Multiview 1×USB type-C
- USB for capturing and streaming
- Upstream key: Luma key, Chroma key, 2×PIP/ POP Downstream key and LOGO overlay.
- Audio mixer 2xSDL 2xHDMI audio & 2xMIC/ line In
- · 39 default patterns, 16 imported images

- GPIO port for tally system.

Model NO. HVS0403U

- Input: 2xHDMI and 2x3G-SDI
- All outputs are configurable and assignable
- Clearly visible multiview & status page
- T-bar/AUTO/CUT transitions
- Audio delay available
- 16 captured images, 2 color generators
- LAN port for PC software remote control
- FTB/ MUTE/ STILL effects

3G-SDI) HOMI DVI VGA USB USB 3.0)



ModelNO VS0605U

6CH MUI TIFORMAT VIDEO SWITCHER

Feature

- Uncompressed USB capture for streaming
- Input: 4xSDI and 2xDVI-I/HDMIA/GA/LISB player Output: 2×SDI & 1×HDMI PGM. 1×SDI PVW
- Multiview output: 1xSDI and 1xHDMI
- 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

IIII.

VIDEO SWITCHER VIDEO SWITCHER



Model NO. PVS0613U

6CH PORTABLE VIDEO SWITCHER

Feature

- Portable All-In-One design
- 13.3 inch EHD I CD display Uncompressed USB capture for streaming.
- Input: 4xSDI and 2xHDMI
- Output: 2×SDI PGM 1×HDMI PGM 1×SDI PVW
- Multiview output: 1xSDI and 1xHDM
- Auto-detected mult-format inputs
- Output format selectable
- T-Bar/ ALITO/ CLIT transitions
- MIX/ FADE/ WIPE/ FTR effects
- PIP/ POP window size and position adjustable
- Audio mixer 3 5mm/ RCA & SDI/ HDMI audio GPIO port for tally system





Model NO. VS0601U 6CH MUII TIEORMAT VIDEO SWITCHER

Feature

- Uncompressed USB capture for streaming.
- Input: 4xSDI and 2xHDMI
- Output: 2×SDI PGM 1×HDMI PGM 1×SDI PVW Multiview output: 1xSDI and 1xHDM
- Auto-detected mult-format inputs
- Output format selectable
- T-Bar/ ALITO/ CLIT 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







and the state of t

Model NO. UC2018

SDI/HDMI USB3.1 GEN1 CAPTURE BOX

Plug-and-Play driver free & nower free

- Plug-and-Play, driver free & power free
 SDI/ HDMI in and USP 2.1 Con1/USP2.0) out
- SDI/ HDMI in, and U:
 3.5mm line audio in
- 3.5mm line audio in
 Automatic input signal detection, up to 1080p60.
- Automatic input signal detection, up to 1080
 Lincompressed via LISB 3.1 Gen1/LISB3.0\
- 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.

RG-SDI) HOMT USR3.0)

ModelNO. UC1118

100 P

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
- 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) USB3.0)

Model NO. UC1218

HDMI USB3.1 GEN1 CAPTURE BOX

Feature

- Plug-and-Play, driver free & power free
 HDMI in, and LISB 3.1 Gen1/LISB3.0) 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 USB 3.0

UNCOMPRESSED CAPTURE

USB capture products support drive-free and power-free. And it supports the output of uncompressed USB3.0 YUV2 high-quality images, convenient for applications in various fields such as broadcastine, live streaming, medical education, and video conferencing.



UNCOMPRESSED CAPTURE

PCIE capture card supports inputs and capture, and compatible with console or PC games and digital cameras. Transfer bandwidthit up to 2.5GB/S, it can meet the needs of high-bandwidth, high-performance image acquisition and processing applications, ideal for use in live streaming platforms.



ModelNO: VC12-4K

4K HDMI PCIE CAPTURE CARD

- 1-CH HDML2.0 input loop-out
- 1-CH HDMI 2.0 input loop-out
 Input and capture support up to 4K60
- Input and capture support
 Bit Rate up to 800Mbps
- Support YUY2 uncompressed video
- PCIE GEN2×4. 2.5GB/S transfer bandwidth
- Support Win 7 and above, Linux 18.04 and above
- Compatible with OBS/PotPlayer/XSplit, etc.
 Stable operation 24 hours non-stop work
- Support one machine with multiple cards





ModelNO: VC42

4-CH HDMI PCIE CAPTI IRE CARD

Feature

- 4-CH HDMI simultaneous input and capture
- Capture up to 1080p60, bit rate up to 200Mbps
- Support YUY2 uncompressed video
 PCIE GEN2×4, 2.5GB/S transfer bandwidth
- PCIE GEN2×4, 2.5GB/S transfer bandwidth
 Support portrait and landscape mode
- Support Win 7 and above, Linux 18.04 and above
- Compatible with OBS/PotPlayer/XSplit, etc.
- Stable operation, 24 hours non-stop work
- · Support one machine with multiple cards



Model NO: VC41

4-CH 3G-SDI PCIE CAPTURE CARD

Feature

- 4-CH 3G-SDI simultaneous input and capture
- Capture up to 1080p60, bit rate up to 200Mbps
- Support YUY2 uncompressed video
 PCIE GEN2x4_2 5GB/S transfer bandwidth
- PCIE GEN2×4, 2.5GB/S transfer bandwir
 Support portrait and landscape mode
- Support Win 7 and above, Linux 18.04 and above
- Compatible with OBS/PotPlayer/XSplit, etc.
- Stable operation, 24 hours non-stop work
- · Support one machine with multiple cards





ModelNO: SE1217

H.265/264 HDMI STREAMING ENCODER

eature

- 1×HDMI input, 1×HDMI loop out, 1×Analog audio input
- H 265/264 stream encode protocol up to 1080n60hz
- 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 & unside down image.
- Live stream with no need for connecting a computer.

HOMI LAN



Model NO: SE1117

H.265/264 SDI STREAMING ENCODER

- 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

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.



PTZ CAMERA & CONTROLLER



Model NO.: PT71271

FULL HD HDMI/SDI PTZ CAMERA

Feature

- 20x/30x ontical zoom lene for ontion
- HDMI 2C SDI 8 I AN output
- Control protocol: VISCA PELCO-D/-P & Opvif
- I AN port for video stream: RTMP RTSP & Onvif 3 5mm stereo audio/line-level) in
- Optional: PoE (Power Over Ethernet) & NDI | HX

RG-SDI) HOMT LAN



Model NO: PKC3000

IP PTZ CAMERA CONTROLLER

Feature

- VISCANISCA Over IP/Pelco P&D/ONVIE protocols.
- Support PS-422/PS-485/PS-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 guickly invoke functions
- Quick control:exposure/iris/focus/pan/tilt etc.
- Supports POE and 12V DC power supplies









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)



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

MMV1630

16CH SDI MUI TIVIEWER & SWITCHER

- Feature 16CH multiviewer mode and 16x16 switcher mode
- · Switcher input: 16v2C 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 LIMD, signal status and audio meter.
- Eront panel buttone and knob control with LCD.
- Dual nower design, redundant nower Eree BC coffware control: LAN BS.422

RE-SDI) HOMI



MODEL MSS1611-S

16×16 SEAMLESS MATRIX SWITCHER

Feature

- Input 16x3G-SDI Output 16x3G₂SDI
- 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

-SDI



ModelNO: MSS0811

8×8 SDI MATRIX SWITCHER

Feature

- Input: 8×3G-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





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

1×5 12G-SDI DISTRIBUTION AMPLIFIER

Feature

- Input 1x12G-SDI
- Output 5v12G SDI 1vSED/ontional)
- Output: 5×12G-SDI, 1×SFP(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
- Pass all ancillary data
 12V DC nower supply
- Detachable bracket design for wall mounting.

12G-SDI) FIBER



Model NO: SD1121-12G

1×2 12G-SDI DISTRIBUTION AMPLIFIER Feature

- Input: 1×12G-SDI
- Output: 2×12G-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
 5VLISB power supply
- 5V USB power supply
 Detachable bracket design for wall mounting

12G-SDI)





Model NO: FE1121-12G

2G-SDI FIBER OPTIC EXTENDER

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

Detachable bracket design for wall mount

12G-SDI) FIBER

CONVERTER

CONVERTER&MIII TIVIEWER



ag-soi) Homi

ModelNO3 SC2030

3G-SDI/ HDMI CROSS CONVERTER

- Input: 1xHDMI/3G-SDI 1xanalog audio · Output: 2x2C SDL 1xHDMI
- In/down scaling and frame rate conversion
- Input signal automatic detection and configuration
- Analog audio Embedding Control easily via the DIP switches & PC software.
- LISB /Dual threaded DC nower supply
- Detachable bracket design for wall mounting

3G-SDI TO HDMI MINI CONVERTER

Input signal automatic detection and configuration.

LED indicators for power and state of input signal

Detachable bracket design for wall mounting



ModelNO Mini SC1112

• Output: 1xHDMI 1x3G-SDI loop



Model NO. SC1120

3G-SDLTO HDMLSCALING CONVERTER

- Input 1xSDL 1xAlt SDL 1xAES 1xaudio
- Output 1xSDI loop 1xHDML 1xAV 1xAES 1xaudio.
- In/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.
- Domete control for DC via LICP
- Detachable bracket design for wall mounting

RG-SDI) HOMI AV









Model NO. SC2031

HDMLTO 3G-SDLSCALING CONVERTER

- Input 1xHDML 1xAV 1xAES/EBLL 1xanalog audio
- Output: 3×3G-SDI, 1×AES/EBU, 1×analog audio Un/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

G-SDI) HOMI



Mini SC1221

HDMLTO 3G-SDLMIN CONVERTER

Feature

Feature Innut: 1x3G-SDI

USB power supply

- Input: 1×HDMI
- Output: 2x3G-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) HOMI AV

Model NO. MV0430

CH 3G-SDI MUI TIVIEWER

Feature

Input: 4×3G-SDI

- Output: 2x3G-SDI and 2xHDMI 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

RG-SDI) HOMI

3G-SDI) HOMI



ModelNO3 SD2080

2×8 SDI/HDMI SPI ITTER & CONVERTER

Feature

- Input: 1xHDMI/1x3G-SDI
- · Output: 4x2C SDI 4xHDMI
- Distribute and convert between SDI & HDMI
- . Input signal automatic detection and configuration
- Input and output support up to 1080n60. Control easily via DIP switches
- I ISB and threaded locking nower supply
- Detachable bracket design for wall mounting.



Model NO. FF1121

3G-SDI FIBER OPTIC EXTENDER

- 3G-SDI input & loopout on transmitter
- Dual 3G-SDI outputs on receiver.
- SDI equalization and re-clocking Support 3Ghit Level A and Level B (all formats).
- 20km transmission distance
- SED/I C Eibor transmittor & receiver
- LISB nower supply
- Detachable bracket design for wall mounting.





-SDI) HOMI

ModelNO SD1141

1×4 3G-SDI DISTRIBI ITION AMPLIFIER

Feature

- Innut: 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
- LISB/DC nower supply
- Detachable bracket design for wall mounting

-SDI



ModelNO: PGAK

12G-SDI/HDMI2 0 SIGNAL GENERATOR

Feature

- 12G-SDI single link dual link guad link (SOD/2SI)
- Sunnort 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
- 2G-SDI) HOMI-2.0) FIBER



1×9.3G-SDI DISTRIBUTION AMPLIFIER

Feature

- Input: 1×3G-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





ModelNO: TS3019

WIRELESS TALLY SYSTEM

Features

- Transmission distance up to 200m in open space
- Transmitter with GPIO/LISB/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 hotshoe 1/4 inch hole

