

AVMATRIX

SHARK S6

6CH HDMI/SDI VIDEO SWITCHER

Revolutionize your live streaming with the Video Switcher,
the all-in-one solution for live streamers.



Stream via Ethernet



USB Capture



PTZ Camera Control



SD Card & USB Record



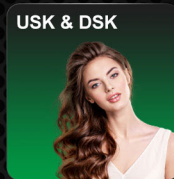
5-inch HD Display



Multiple Transition Effects



USK & DSK



Audio Mixer



Live Stream Via Ethernet

The LAN port supports IP streaming transmission through the RTMP(S), RTSP & SRT protocol, allowing users to easily live stream video programs to platforms such as YouTube, Skype, Facebook, and Twitch, and get high-quality videos.



USB Disk & SD Card Record

SD card and USB interface enable direct recording of PGM signal, making it easy to record high-quality videos. Bitrate of encode up to 32Mbps, and the supported file formats are MP4/TS.



SD Card



USB Disk



USB Capture for Streaming

The USB type-C can be used as a webcam to capture video & audio and stream to various softwares & platforms such as OBS, vMIX, ZOOM, Teams, Skype and VLC. It is compatible with Windows, Linux, and Mac.



PTZ Camera Control

With the PTZ control feature, users can easily pan, tilt, and zoom PTZ cameras using LAN and RS-232/RS-422/RS-485. Camera control protocol supports VISCA, VISCA over IP, Pelco D/P and ONVIF.



Versatile Input & Output

The video switcher includes 4 SDI & 2 HDMI inputs; 2 SDI & 1 HDMI PGM outputs, 1 HDMI Multiview output, and 2 SDI AUX outputs which allow users to configure the output from IN 1~6, PGM, PVW, Multiview, etc.



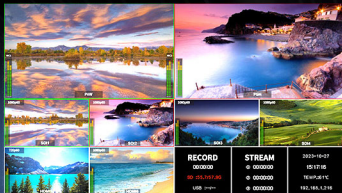
Built-in 5-inch Display

5-inch HD display provides a multiview with real-time monitoring of 6 channels inputs, as well as menu operation and streaming/ recording status.



Landscape & Portrait Mode

The video switcher provides both portrait and landscape modes for multiview output, user can choose the layout they need according to different event production application fields.



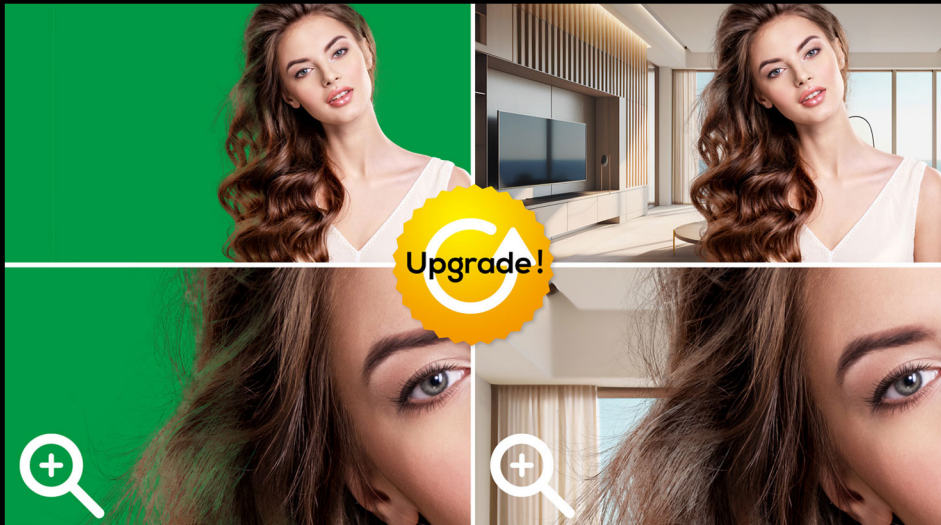
Professional Audio Mixer

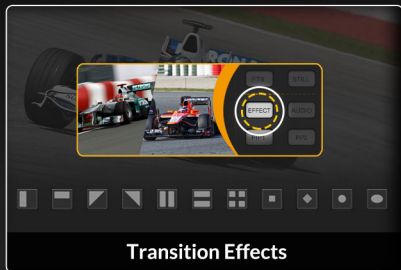
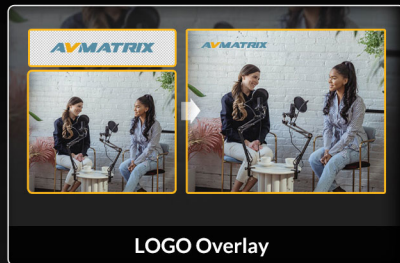
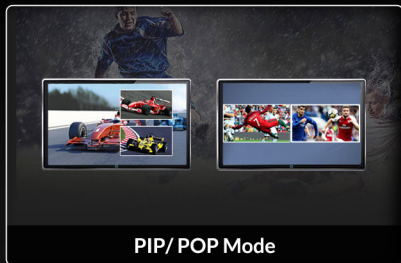
The switcher's integrated audio mixer enhances the audio effect of your productions by combining two external MIC inputs and 6 input embedded audio. Users can also set the AFV and utilize the audio delay feature to ensure the audio-video synchronization.



Upgraded Chroma Key

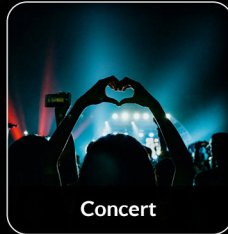
Enhanced chroma key technology delivers precise background removal for virtual studios and live events.





Widespread Application

The video switcher can be widely used in various field events, such as live sports, virtual studio, Education, internet, concert, and so on.



SPECIFICATIONS

CONNECTIONS

Video Input	SD/HD/3G-SDI(75Ω) ×4, HDMI type-A(100Ω) ×2
Media Port	USB type-A
Stream Output	LAN
Capture Output	USB type-C
PGM Outputs	HD/3G-SDI(75Ω) ×2, HDMI type-A(100Ω) ×1
Multiview Outputs	HDMI type-A(100Ω) ×1
AUX Outputs	3G-SDI(75Ω) ×2, including IN1~6, PVW, PGM, Color Bar, Multiview
Audio Input	MIC ×2
Audio Output	Line ×1, Earphone slot ×1
Camera Control Port	LAN, RS-232/ RS-422/ RS-485
Tally Port	DB-15
Power In	DC 12V

STREAM & REC

Bitrate	2M~32Mbps
Rate Control	CBR/ VBR
Stream Protocols	RTMP(S)/ RTSP/ SRT
REC SD card Format	FAT32/ exFAT/ NTFS
REC USB Disk Format	FAT32/ exFAT/ NTFS
REC File Segment	1~120mins

FUNCTIONS

Transitions	T-Bar/ AUTO/ CUT
Effects	Wipe(11×3 patterns)/ MIX/ DIP/ STILL(freeze)/ FTB
Multiviewer Layout	Landscape & Portrait Mode
Upstream Key	Chroma Key ×1, PIP ×2, POP
Downstream Key	DSK ×1, Logo ×1
Audio Function	AFV, Mix, Audio delay
Logo Library	Up to 8 PNG image
Record	USB disk, SD card, record for PGM up to 1080p60
Display	5 inch HD LCD display

OTHERS

Power	DC 12V 1.5A, 18W
Dimension(LWD)	238.5 × 168.2 × 47.5mm
Weight	Net weight: 1450g, Gross weight: 2370g
Temperature	Working: -20°C~60°C, Storage: -30°C~70°C

STANDARDS

SDI Input Format Support	1080p 60/59.94/50/30/29.97/25/24/23.98 1080psF 30/29.97/25/24/23.98 1080i 60/59.94/50 720p 60/59.94/50/30/29.97/25/24/23.98 625i 50 PAL, 525i 59.94 NTSC
HDMI Input Format Support	1200p 60/50/30 1080p 60/59.94/50/30/29.97/25/24/23.98/23.976 1080i 50/59.94/60 720p 60/59.94/50/30/29.97/25/24/23.98 576i 50, 576p 50
PGM Output Format	1080p 60/59.94/50/30/29.97/25/24/23.98 1080i 60/50/59.94
Multiview Output Format	1080p 60
Color Space	RGB Full/ RGB Limited/ YUV
SDI Video Rate	Auto detection, SD/HD/3G-SDI
SDI Compliance	SMPTE 292M/ SMPTE 259M/ SMPTE 424M
USB Capture Out	MJPEG, up to 1080p 60
Supports OS	Windows 7/8/10/11, Linux (Kernel version 2.6.38 and above), Mac OS (10.8 and above)
Capture Compatibility	OBS studio, Skype, ZOOM, Teams, Youtube Live, etc.

ACCESSORIES



Power supply
(12V 3A)



USB cable
(type A-C)



Tally connector
(DB-15)



Handbag



WWW.AVMATRIX.COM

ZHANGZHOU MATRIX ELECTRONIC TECHNOLOGY CO., LTD.

Add: 26 Fuqi North Road, Lantian Economic Development Zone, Zhangzhou, Fujian, 363005, China
Tel: +86-596-2103372/2109662 Fax: +86-596-2109611 E-mail: sales@avmatrix.com

