

**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



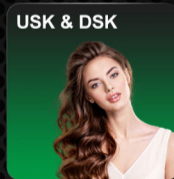
## 5-inch HD Display



## 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

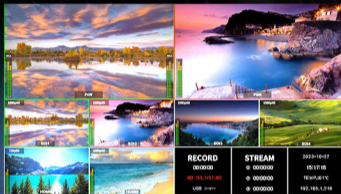
5-inch HD display provides a multiview with real-time monitoring of 6 channels inputs, as well as menu operation and streaming/ recording status.





# 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.



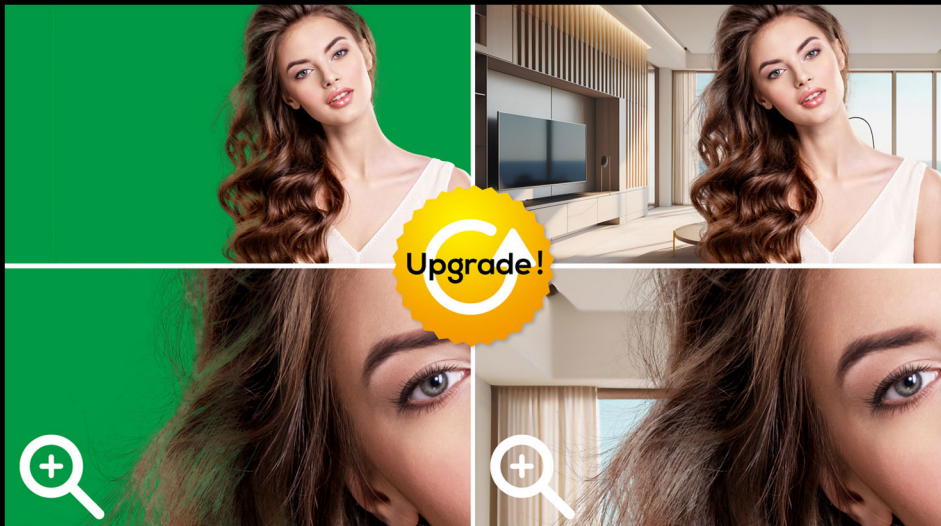
# Professional Audio Mixer

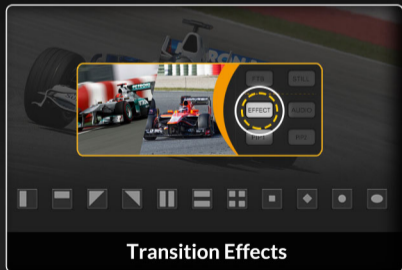
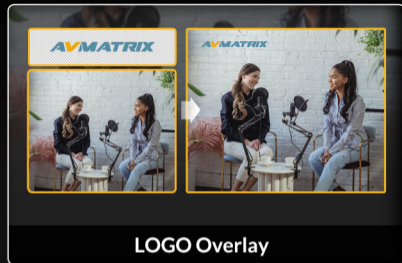
The switcher's integrated audio mixer enhances the audio effect of your productions by combining two external MIC inputs and 6 input embedded audio. Users can also set the AFV and utilize the audio delay feature to ensure the audio-video synchronization.



# Upgraded Chroma Key

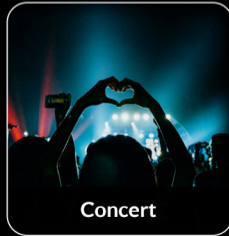
Enhanced chroma key technology delivers precise background removal for virtual studios and live events.





# 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](http://WWW.AVMATRIX.COM)

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