

ALL-IN-ONE Audio Video Switchers

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



SHARK H4M | SHARK S4M

Audio Video Mixer
ALL-IN-ONE



Multiple Inputs Outputs



**Versatile Audio
Processing Effects**



**Bluetooth/USB
Play Recording**



Various Effects: WIPE/MIX/DIP



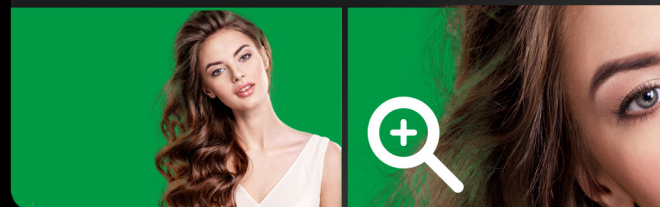
USB Disk/ SD Card Recording



**Live Stream Via Ethernet
or USB Capture**



Luma Key, Chroma Key, PIP/POP, DSK and LOGO



AUDIO



VIDEO

All-in-one Convenience

Streamline your productions with this AIO video switcher and audio mixer. It combines professional video switching and audio mixing capabilities into a single, compact unit, saving you time and space. With its intuitive interface and versatile features, it's the perfect solution for live events, broadcasting, and more.



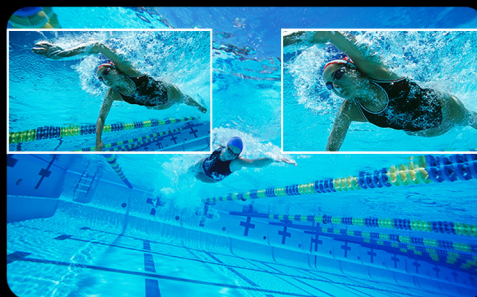
4-CH Video Inputs with Configurable Outputs

This versatile audio & video switcher is equipped with four auto-detected video inputs, independent and configurable PGM and multiview outputs, supporting up to 1080P 60 FHD resolution. Its flexibility ensures integration with diverse devices, making it ideal for a wide range of applications.



USK & DSK

Use to key off blue/green and black background colors and overlay captions and logos for live event applications.



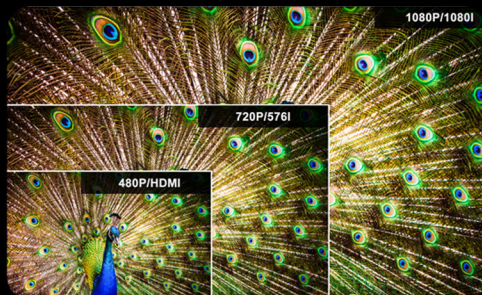
2PIP/ POP

PIP:2 sub-screen can be overlaid into PGM out with adjustable size and position.
POP:Two same-size screens can be overlaid into PGM out.



LOGO Overlay

User can add a logo from USB flash disk into PGM. The logo's size and position can be adjusted, and the logo image format can be PNG, JPG, BMP, etc.



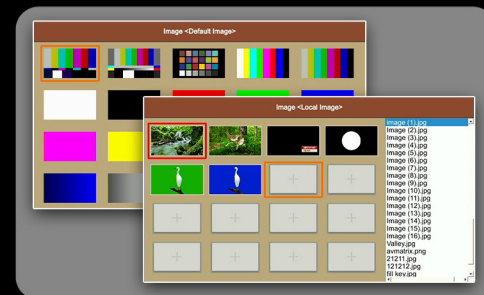
Scaled Output & Multiview

Support multi-format inputs including 1080p, 1080i, 720p, 576i and 480p HDMI signals and output format can be up/down scaled.



Transition Effects

There are WIPE, MIX and DIP transition effects, which work for switching via AUTO and T-Bar.



Media Management

Support 39 preset patterns. User can inset image from USB disk or capture and store the screenshot of IN1-4, clean PGM or PGM.

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.



OBS Studio



Skype



zoom



VLC MEDIA PLAYER



vMix

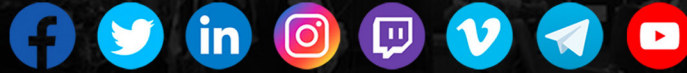


Teams



Live Stream via Ethernet

The LAN port supports IP streaming transmission through the RTMP, 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 and SD Card Recording

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.



USB REC



SD CARD SLOT



Eight-channel Audio Mixing Support

Equipped with XLR and TRS jacks, it supports 6 microphone/line, 2 TRS external and 3.5mm stereo audio inputs, offers flexible connectivity for microphones, instruments, etc. Each channel has an independent volume setting for precise adjustment of each audio source.





Advanced Audio Mixer with DSP & Phantom Power

Equipped with built-in 48V phantom power, this device is designed to handle both high and low impedance sound sources with ease. It supports versatile features such as audio mixing, gain control, low-cut filtering, left-right channel balance, and 99 DSP effects modes.



USB PLAYBACK

BLUETOOTH

Bluetooth, USB Playback & Intuitive Control

This audio mixer integrates Bluetooth connectivity and USB drive playback, offering users a seamless and convenient audio experience. It also features a compact screen for easy operation, enhancing user control and accessibility.

MIC/LINE

The jacks are used to connect microphones or other audio devices in support of XLR plugs and TRS plugs

6.35mm-spec Stereo Line Input Jack

Support extra audio

MAIN /PHONE Output

XLR connector for main mix output
Monitor headphone output



+48V/LED

When this switch is turned on, the +48V LED lights and DC +48V phantom power is supplied to the XLR plug on MIC input jack

Switch Button for MP3 and Ch 9-10

Volume switching for MP3 or 9-10CH input channels

Mixer Volume Knob

The Mixer volume knob are used to adjust the output of each input audio to the video switcher MICs.

Gain Knob

Adjust the input sensitivity of
Mic in/ Line in.

BT/ MP3 Player/ Recorder

The BT/ MP3 player/ recorder controlled
key board with LCD display, USB port.

DSP Effect Mode

Select the DSP effect mode.

PARA 1 adjusts how many times the echo repeats;
PARA 2 adjusts the time interval between each echo.

Mic Input CH 2 Band EQ

2 segment equalizer that adjusts the overall
tone of the channel.

FX Send Knob

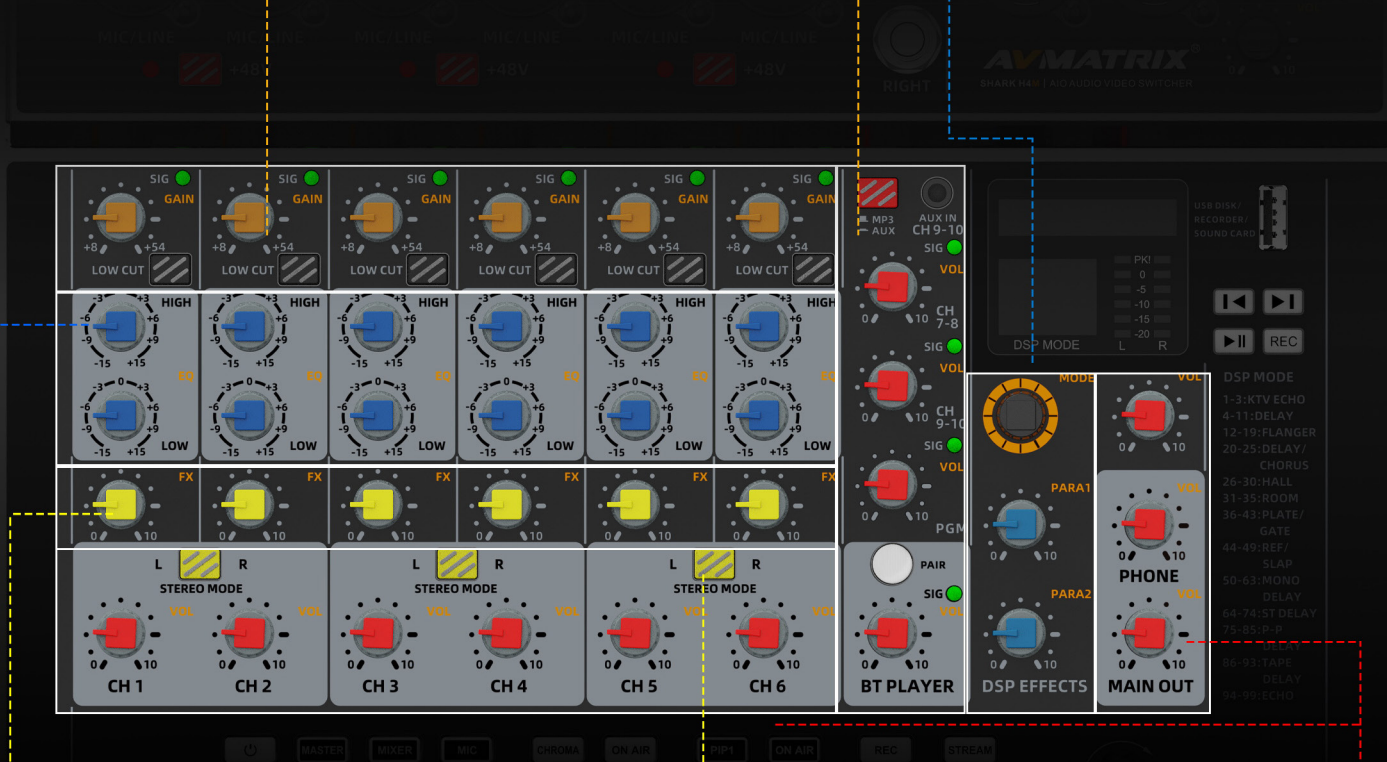
Adjust the size of the signal sent to
the digital effect processor.

Stereo Mode

Activates mono mode and adjacent
MIC channels are averaged to
both L and R.

Volume Knob

Adjust the volume of the sound input
from the microphone or other source
connected to channel.



Power

Press the power to start or shut down the device.

Audio

Supporting 5-ch
(HDMI embedded 4+ 1*MIC in) ,
including AFV or audio mix mode,
audio source selecting,
adjust volume + & volume -.

Up Streaming Key

Support CHROMA KEY
LUMA KEY 2*PIP functions.

Down Streaming Key

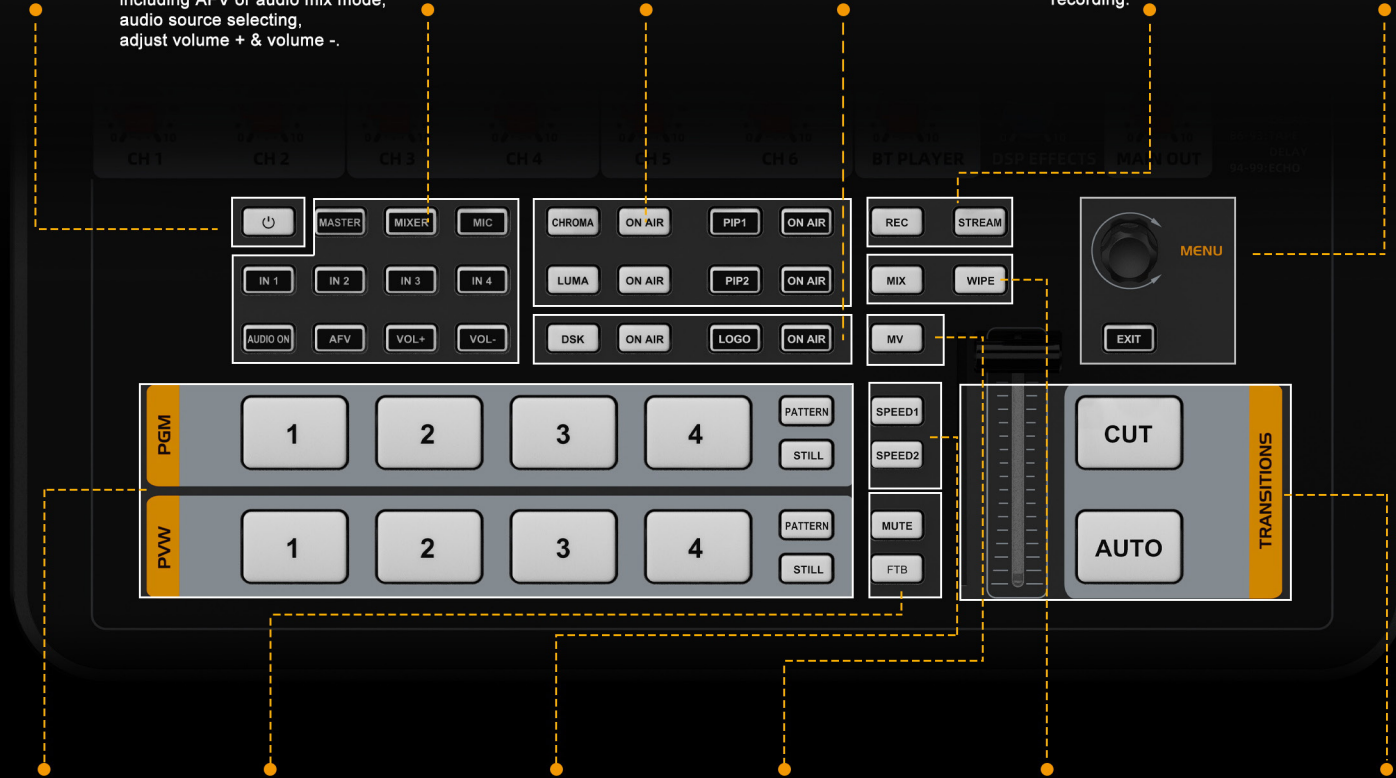
Support DSK/LOGO functions.

Record&Stream

STREAM: For streaming.
REC: Press to start or stop
recording.

Menu

Use For menu control,
configure different parameter.



PGM/PVW

Selecting the signal source for
Program or Preview.

MUTE/ FTB

MUTE: Mute master audio.
FTB: Fade to Black,
used for emergency.

Speed

Control transition rate,
speed can be configured
on Menu.

MV

Use for quickly switching
between Multiview and the
configured multiview out.

Transition Effects

Support WIPE, MIX and other
Transition effects.

CUT/ AUTO/ T-Bar

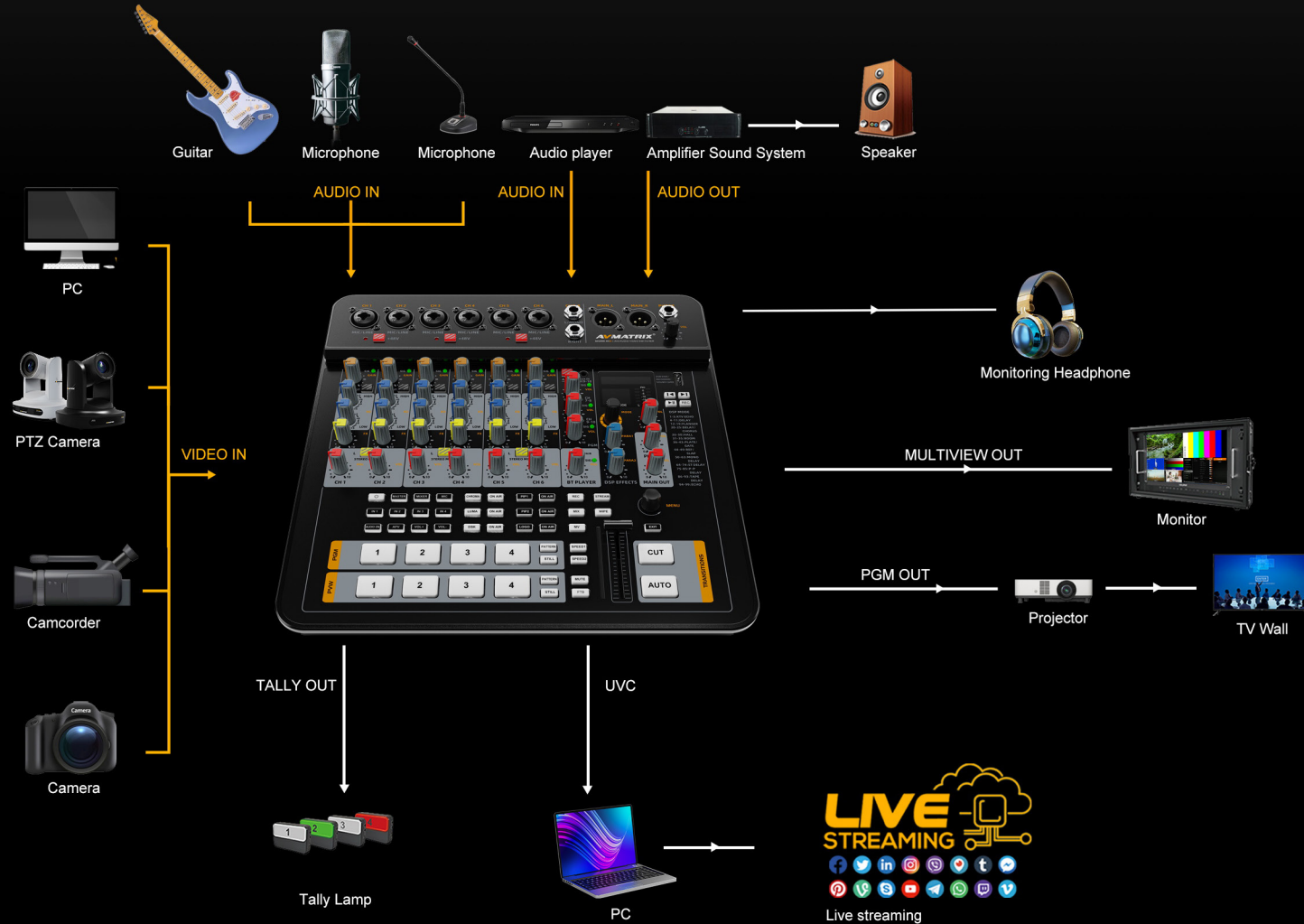
Use for Performs a simple immediate switch(Cut)
or an automated switch(AUTO) between
Program and Preview.
Switch the PVW and PGM through T-Bar.

Extensive Application

All-in-one audio video switchers can be used in a wide range of live events such as live sports, virtual studios, churches, home entertainment, weddings, concerts, etc.



Connection Diagram



Specifications

VIDEO

SHARK H4M

SHARK S4M

CONNECTION

Video In	HDMI Type-A ×4	HDMI Type-A ×2, SDI ×2
Video Out	HDMI Type-A PGM ×2 HDMI Type-A Multiview Output ×1 USB2.0 Type-C × 1 (Capture)	
LAN Port	LAN ×1 (For Streaming, web control and Upgrade)	
Media Library	USB Type-A ×1 (USB disk import and export, images and logo, firmware upgrades)	
Tally Port	DB-15 ×1	
Power In	DC 12V 2A ×1	
Record	SD Card /USB Disk	

FUNCTION

Transitions	T-Bar/ AUTO/ CUT
Effects	Wipe (11×3 patterns)/ Mix/ DIP/ Still(freeze)/ MUTE/ FTB
Layouts	2 styles of Multiview layout (6 windows and status)
Keys	Upstream Key: Luma Key × 1/ Chroma Key × 1/ PIP ×2/ POP Downstream Key: DSK × 1/ Logo × 1
Media	Default image: 39 preset patterns Local image: up to 16 imported images Capture image: up to 16 captured images
Generators	Pattern generator × 1 Color generators ×2

STANDARDS

HDMI In Format Support	1080p 60/ 59.94/ 50/ 30/ 29.97/ 25/ 24/ 23.98 1080i 50/ 59.94/ 60 720p 60/ 59.94/ 50/ 30/ 29.97/ 25/ 24/ 23.98 576i 50, 576p 50, 480p 59.94/ 60, 480i 59.94/ 60
HDMI PGM Out	1080p 60/ 59.94/ 50/ 48/ 47.95/ 30/ 29.97/ 25/ 24/ 23.98; 1080i 60/ 59.94/ 50
HDMI Multiview Out	1080p 60/ 59.94/ 50/ 48/ 47.95/ 30/ 29.97/ 25/ 24/ 23.98; 1080i 60/ 59.94/ 50
HDMI Color Space	RGB/ YUV 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
SDI In Format Support	YUV Up to 1080p 60 USB disk format support: FAT32, Ext3, Ext4, up to 256GB Image format support: png, bmp, jpg, gif, jpeg, ppm, pb m, tif, jps, mpo, tga Logo format support: png, bmp, jpg, gif, jpeg, ppm, pb m, tif, jps, mpo, tga Logo size support: 10× 10 pixel to 600×600 pixel
SDI Color Space	YUV
USB Capture Out	Up to 1080p 60
Media Format	USB disk format support: FAT32, Ext3, Ext4, up to 256GB Image format support: png, bmp, jpg, gif, jpeg, ppm, pb m, tif, jps, mpo, tga Logo format support: png, bmp, jpg, gif, jpeg, ppm, pb m, tif, jps, mpo, tga Logo size support: 10× 10 pixel to 600×600 pixel
Video BitRate	2Mbps-32Mbps
Streaming Protocol	RTMP, RTSP, SRT
Recording Format	File System: FAT32/EXFAT/NTFS/EXT3, File Format: MP4/TS

AUDIO

CONNECTION

Audio Input Channel	Mono (MIC/LINE) ×6 , Stereo (LINE) ×2 USB player/Bluetooth×1
Audio Output Channel	MAIN L/R OUT ×2 PHONES ×1 MIXER OUT ×1

FUNCTION

Audio Mixer	XLR×6, TRS×2, HDMI×2, SDI×2 Audio delay: 0-500ms
CH1-6 MIC/LINE	Gain: -14~+40 dB Mic input CH 2 band EQ, 80Hz/12KHz, ±15dB 48V phantom power supply with indicator Peak Level LED
Audio Input Indicator	Audio input sensitivity adjustment
Main Output Level Meter	Stereo audio peak level meter with 6-segment LED display
Maximum Input Level	MIC+10dBu / Line +22dBu
Input Impedance	XLR: 10k Ω
Maximum Output Level	XLR+22dBu, TRS+20dBu
Output Impedance	XLR: 600 Ω, PHONES: 10 Ω
Frequency Response range	±1 dB, 20-22KHz
Dynamic Range	102 dB
Total Harmonic Distortion @ 1KHz	<0.05%(MIX)
Stereo Separation	>80 dB

FUNCTION

Power	12V 2A
Operating power	≤18W
Dimension (LWD)	287.7 × 286.7 × 83.2mm
Weight	Net: 2500g, Gross: 3140g
Temperature	Working: -20℃~60℃, Storage: -30℃~70℃



SHARK H4M



SHARK S4M

Accessories



12V 2A Power Adapter



USB A-C Cable



Tally Connector