AVMATRIX®

MICRO 4 CHANNEL SDI&HDMI
VIDEO SWITCHER

HVS0403U

Scaled Output & Multiview

The switcher supports multi-format inputs including 1080p, 1080i, 720p, 576i and 480p HDMI/ SDI signals.
Each output supports up/down scaling and can be configured as HDMI/SDI source, PVW, PGM, clean PGM, or Multiview.
Besides, all cameras as well as setting status/menu can be monitored via multiview output.

USB Capture for Streaming

Connect the switcher to a computer with Windows 7/8/10, Mac OS via USB output, and use softwarare like OBS, PotPlayer,
VMix, etc. to realize live streaming in Youtube, Facebook, Twitter, etc. platforms.The video source of USB out
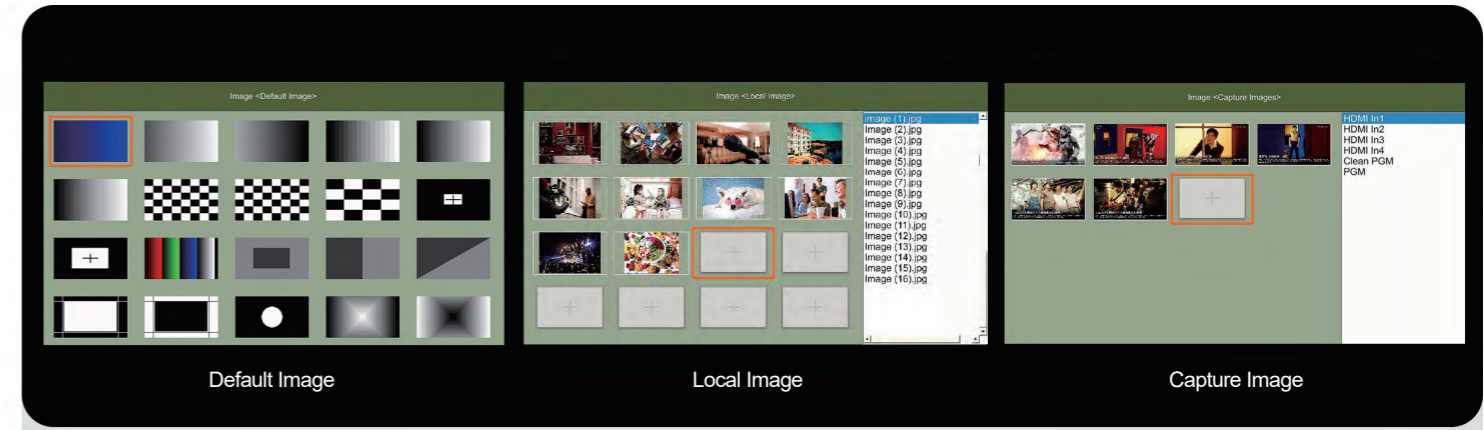not only can be the PGM output but also can be HDMI, SDI, PVW or Clean PGM output.

ZOOM   f LIVE   twitch   ▶ YouTube   ◎ OBS Studio

USK & DSK

BREAKING NEWS

The switcher supports chroma key and luma key, which is convenient for users to key off blue/green and black background colors
for virtual studio or live event applications. Besides, User can gain an exact color level by using the color picking, clip and gain key adjustment.

FUNCTION

- ○ 2×HDMI & 2×3G-SDI inputs, support auto-detected
- ○ 2×HDMI PGM outputs,1×HDMI multiview output, 1×USB type-C output
- ○ All outputs are configurable and assignable
- ○ USB for capturing and streaming on PC or Android phone
- ○ Clearly visible multiview & status page
- ○ Upstream key: Luma key, Chroma key, 2×PIP/ POP
- ○ Downstream key and LOGO overlay
- ○ T-bar/ Auto/ Cut transitions; various effects: WIPE(11×2 patterns) / MIX/ DIP
- ○ Audio mixer: 2×SDI, 2×HDMI embedded audio and 2×MIC/ line In; audio delay available
- ○ Media library: 39 default patterns, 16 imported images, 16 captured images, 2 color generators
- ○ LAN port for PC software remote control
- ○ FTB/ MUTE/ STILL/ GPIO for tally

Transition Effects

There are WIPE(11×2 patterns), MIX and DIP transition effects available from the switcher. The transition effect works for switching via AUTO and T-Bar. User also can have transition without effect by switching via CUT.

2 PIP/ POP

The switcher has 2 PIP function that it can overlay 2 sub-screen into the PGM out, and the size and postion of sub-screen can be adjusted. Besides, user can use POP to have two same-size screens overlay 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 can be PNG, JPG, BMP, etc. format.
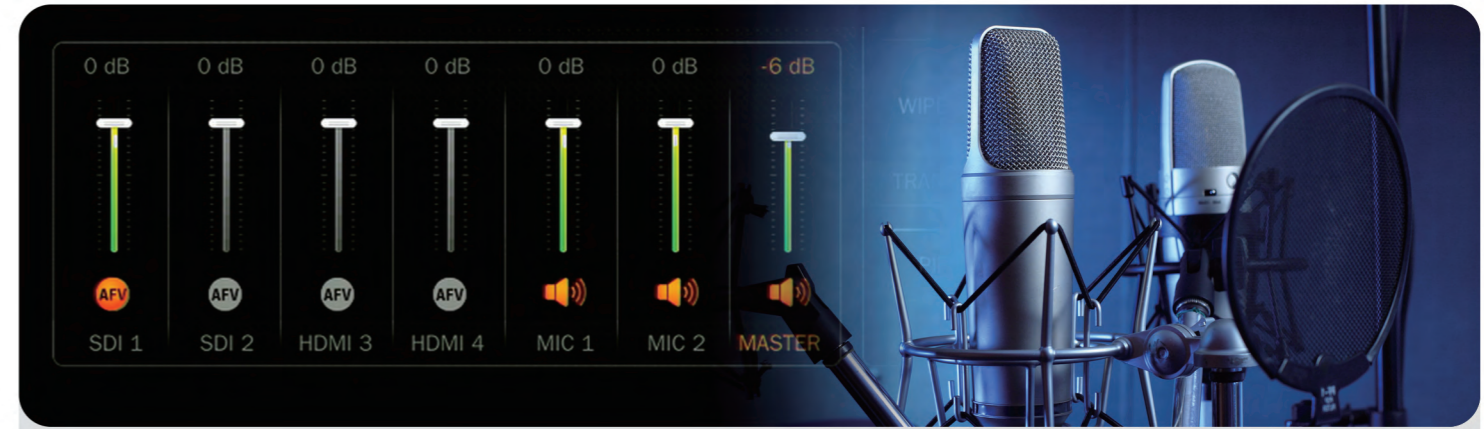
Powerful Media Management

The video switcher has a powerful built-in media management function with 39 preset patterns. User also can import image from USB flash disk, or capture and store the screenshot image of SDI 1, SDI 2, HDMI3, HDMI 4, Clean PGM or PGM.

Default Image　　　Local Image　　　Capture Image

Audio MIXING /AFV

The switcher can mix 2×HDMI and 2×SDI embedded audio and 2 external analog audios (Mic/ Line-level) into the PGM out. User can turn on/off or adjust volume or audio delay for each audio independently. In addition, 2×HDMI and 2×SDI embedded audios can be set to AFV mode.

PC Control Softaware

A free PC control software can be downloaded from website. User can remotely control all settings of the device through the control software, including transition effects, audio configuration, multiview settings and media management, etc.

Abundant Applications

The Micro 4 channel SDI&HDMI live streaming video switcher can be widely used in various field events, such as church, game live, live sports, virtual studio, education, internet, concert, and so on.

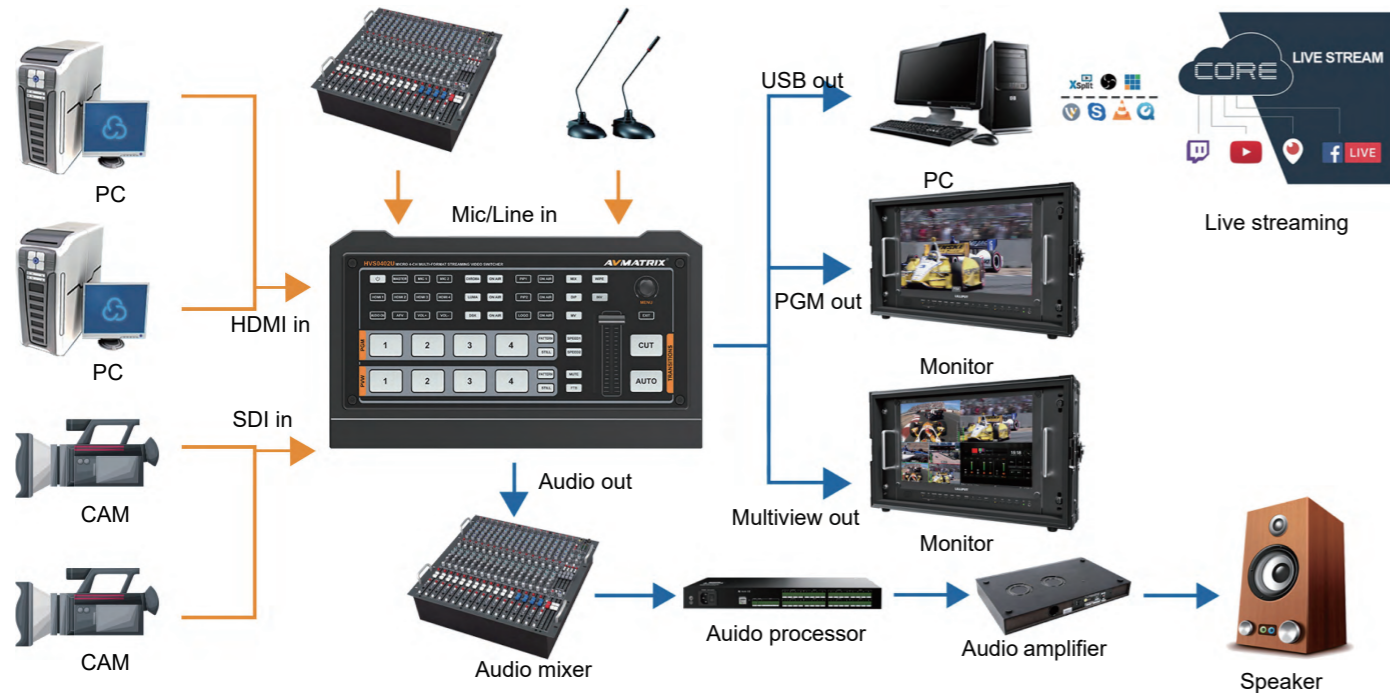Game Live

Remote Education

Wedding

Live Sports

Church

Teleconference

Self Media/ Vlog Live

Concert

PC

PC

CAM

CAM

HDMI in

SDI in

Mic/Line in

USB out

PGM out

Multiview out

Audio out

Audio mixer

Auido processor

Audio amplifier

Speaker

PC

Monitor

Monitor

Live streaming

CONNECTIONS	Video In	HDMI type-A ×2, SDI ×2
	Video Out	HDMI type-A PGM ×2
		HDMI type-A Multiview ×1
		USB2.0 type-C ×1(Streaming on PC)
		Assignable SDI1~2, HDMI3~4, PGM, Clean PGM, PVW, Color bar, Multiview
	Audio In	MIC/ Line ×2(3.5mm stereo audio)
	PC Control Port	LAN ×1(For PC remote control)
	Media Library	USB type-A ×1(For image import and firmware upgrade)
	Tally Port	DB-15 ×1
	Power In	DC 12V ×1
FUNCTIONS	Transitions	T-Bar/ AUTO/ CUT
	Effects	WIPE(11×2 patterns)/ MIX/ DIP/ STILL(freeze)/ MUTE/ FTB
	Layouts	2 styles of Multiview layout(6 windows and stutas)
	Keys	Upstream Key: Luma Key ×1/ Chroma Key ×1/ PIP ×2/ POP
		Downstream Key: DSK ×1/ Logo ×1
	Audio Mixer	HDMI×2, SDI×2 and MIC/ Line ×2
		Audio delay: 0-500ms
	Media Format	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/ 25/ 24
		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
	SDI In 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
	SDI Color Space	YUV
	USB Capture Out	MJPG, 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, pbm, tif, jps, mpo, tga（within 4096×3840)
		Logo format support: png, bmp, jpg, gif, jpeg, ppm, pbm, tif, jps, mpo, tga
		Logo size support: 10×10 pixel to 600×600 pixel
OTHERS	Power	Wide voltage: 7~24V; Operating power:12W(12V 1A)
	Dimension (LWD)	244.5×143.2×44.5mm
	Weight	1019.6g
	Temperature	Working: -20℃~60℃, Storage: -30℃~70℃

143.2 mm

244.5 mm

44.5 mm