Video Mixing Device



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Video Mixing Device : CAM-HVM4	
Built-in Screen	5.5-inch Full HD (FHD) display
Screen Resolution	1920 × 1080 pixels
Total Selectable Channels	8-choose-4 channel input architecture (4× SDI & 4× HDMI)
Media / USB Input	1× USB 2.0 (Type-A) for direct video playback from USB disk, image loading, UVC camera input, or firmware upgrade
Network Video Inputs	NDI, SRT, RTMP, and RTSP stream inputs
Program (PGM) Outputs	1× 3G-SDI and 1× HDMI 1.3
4K HDMI Inputs	2× HDMI 2.0 (supporting up to 4K@60fps)
FHD HDMI Inputs	2× HDMI 1.3 (supporting up to 1080p@60fps)
SDI Inputs	4× 3G-SDI (supporting up to 1080p@60fps)
HDMI Input Resolutions	3840×2160p (30/50/60 fps on IN1/IN2) 1920×1080p (23.98/24/25/29.97/30/50/59.94/60 fps) 1920×1080i (50/59.94/60 fps) 1280×720p (50/59.94/60 fps), 1680×1050p60, 1440×900p60, 1280×1024p60, 1280×800p60
Auxiliary (AUX) Output	1× HDMI 1.3 (fully configurable to Input Channel, Preview/PST, Program/PGM, or Multiview/MV feed)
USB Streaming / Capture	1× USB 3.0 (Type-C) UVC output / YUY2 streaming for driver-free connection to PC/Mac (webcam mode)
SDI Input Resolutions	SMPTE 1080p (24/25/30/50/60 fps), 1080i (50/60 fps), 720p (50/60 fps)
Output & Streaming Resolutions	1080p @ 24/30/50/60 fps (SMPTE: 1080p @ 24/30/50/60 fps)
Color Space / Sampling	YUV 4:4:4
Video Compression	H.264 up to 1080p@60fps
Audio Processing Modes	Integrated professional audio mixer supporting AFV (Audio-Follow-Video) and MIX modes
Channel Processing Capacity	Simultaneously processes up to 5-channel embedded HDMI audio and 2-channel external audio inputs
Latency	System latency < 3 frames; Audio delay adjustment 0–500 ms (0–30/25 frames)
Analog Audio Inputs	2× 3.5 mm stereo audio inputs (compatible with MIC / LINE level)
Audio Monitoring	1× 3.5 mm stereo headphone jack for real-time monitoring
Transitions & Controls	CUT, AUTO, Hardware T-Bar fader, transition duration, blackout time, and edge feathering adjustment
Transition Effects	Up to 36 dynamic transition effects
Multi-Source Layering	2× independent Picture-in-Picture (PIP) windows and 2× logo overlays
Orientation Compatibility	Full PTZ functionality retained across both horizontal and vertical output modes
Direct Recording	Direct 1080p@60fps Program (PGM) video recording
Chroma Keying	Advanced AI algorithm for precise color sampling, clean edge detection, and green screen color spill elimination
Streaming Orientation	Dual-orientation live streaming (simultaneous Horizontal 16:9 and Vertical 9:16 broadcast)
PTZ Management	Direct control of up to 4 PTZ cameras via LAN / VISCA
Hardware Controls	Dedicated hardware joystick, individual camera selector keys (CAM1–CAM4), Zoom (+/-), Near/Far, and Auto Focus buttons
Storage Interfaces	SD Card slot, USB Flash Drive (USB-A port), and portable external HDD
Simultaneous Operation	Simultaneous live streaming broadcast and local master PGM recording
Direct Network Streaming	Computer-free direct encoding and streaming via Ethernet to platforms including YouTube, Facebook, and TikTok
Protocol Support	NDI, SRT, RTMP, RTSP, and VISCA
Dual-Stream Transmission	Dual-stream encoding capability for multi-platform broadcasting

USB Interfaces	1× USB 3.0 Type-C (UVC output), 1× USB 2.0 Type-A (Media playback / Recording / Storage / Firmware)
Operating Temperature	0°C to 70°C
Operating Humidity	10% to 85% RH (non-condensing)
Product Dimensions	269.9 mm × 166.4 mm × 55.7 mm
Product Weight	Net Weight: 1.5 kg; Gross Weight: 2.1 kg
Storage Expansion	1× SD Card slot
Power Input	DC 12V / 2A
Remote Control Interface	Built-in Web Server supporting cross-platform web browser control
Network Management	Static MAC address configuration, network firmware update, and multi-language system settings
Network Interface	1× RJ45 LAN port (Network Control, Live Streaming, and PTZ Control)
Power Consumption	20W constant power

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