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MIX ONE NEW

All-in-One Video Switcher Built for PTZ-First Production

The Mix One video switcher is a professional, all-in-one video production console that integrates 4K60 multi-source video switching, IP streaming, PTZ camera control, professional audio mixing, and live streaming into a single intuitive device.
Designed for live broadcast environments, classroom recording, corporate events, small studios, and hybrid video production teams, it provides a complete production workflow from signal input to final output.
The Mix One supports up to 6 video sources, including HDMI, USB-C, and IP streams. It features an 8.8-inch multiview display, Hall-effect joystick, and multi-functional knobs, offering efficient and intuitive operation for complex production environments. From multi-camera switching and PTZ control to graphic overlays and audio management, the Mix One has what you need for professional-grade production.



6 Inputs: HDMI, USB-C & IP (NDI®HX3/RTSP/RTMP/SRT)

Mix One is designed for seamless IP and hybrid production. It supports up to 6 video sources in a compact system, eliminating the need for external converters or complex signal routing. IP workflows are supported via NDI®HX3, RTMP, SRT, and RTSP up to 4K60, alongside HDMI (up to 4K60) and USB-C inputs. Outputs include HDMI program (up to 4K60) and auxiliary outputs, USB (up to 1080p60), and IP streaming up to 4K60 — all from a single, integrated device.

8.8-inch Touchscreen & WebUI Control

An integrated 8.8-inch touchscreen puts complete control where it belongs—right in front of you. Video switching, audio mixing, graphics, and system settings are unified in a clean, responsive interface designed for live production. When you're away from the device, the WebUI mirrors the same experience across the network, giving you full setup and control—without changing how you work.

Made for PTZ-first Production

Mix One is purpose-built for PTZ-centric workflows, connecting directly to PTZ cameras via industry-standard control protocols—no external controllers required. A Hall-effect joystick, rocker-style controls, and multifunction knobs put smooth, precise camera movement directly at your fingertips, with adjustable speeds for nuanced adjustments.
Store up to 6 presets per camera, adjust image and tracking settings, and manage network control directly on the switcher. Dedicated CUT and AUTO transitions keep every switch clean and controlled.

Recording to USB and SD Cards

Mix One is designed to capture every moment. Record directly to external media, including USB drives and SD cards, up to UHD resolution. Long-form recordings are handled automatically, with file splitting that ensures uninterrupted capture from start to finish.

XLR & 3.5 mm Audio

Audio is fully integrated into the production workflow, with stereo line-in/out for external audio sources and monitoring, alongside a professional XLR input with 48V phantom power. Up to six embedded audio channels follow their respective video inputs and remain independently adjustable, with built-in gain control, Audio-Follows-Video (AFV), and flexible mixing. Sound stays clean, synchronized, and under control in any live production environment.

Gigabit Ethernet for Reliable Streaming

A Gigabit Ethernet port ensures stable and secure operation for streaming scenarios even under heavy load. PoE++ reduces cabling by delivering power and data over a single Ethernet connection, while USB power keeps peripherals running without extra adapters. Stream directly to YouTube™, Twitch™, Facebook™, or any custom RTMP/SRT destination—high-quality streaming with fewer cables and no surprises.

Graphics & Media Tools

Integrated graphics tools make it easy to add context and polish to live content. Titles, lower thirds, clocks, and rolling subtitles are always ready when you need them. Media assets load instantly, and frequently used graphic layers can be recalled as presets, keeping complex productions simple and repeatable.

Save & Recall Production Setups

Mix One remembers how you work. Configuration profiles let you save complete setups and recall them instantly, making repeated productions faster, more consistent, and far easier to manage.

Chroma Key, Luma Key & Linear Key

Professional live production requires precision. Mix One is equipped with independent upstream and downstream keyers for layered output. It supports program/preview switching and refined transitions, enabling virtual scene construction via chroma/luma keying, pattern keys and picture-in-picture without performance lag.

Specifications

Product Name	Mix One	
Part Number	TLC-70TC	
Video Input		
Total Video Inputs	6 simultaneous	
HDMI Inputs	2 × HDMI IN	
USB Input	3 x USB (2 × UVC (USB-C 3.0 / USB-A 2.0); 1 × DP (USB-C 2.0)	
IP Video Input Protocols	NDI®HX3, RTSP, RTMP, SRT	
Video Output		
HDMI Outputs	2 × HDMI OUT (with Multiview/PVW)	
USB Outputs	2 x USB (1 x UVC, 1 x DP)	
IP Video Output Protocols	NDI®HX3, RTSP, RTMP, SRT	
Resolution	**Input Capability**	**Output Capability**
4K (With layer effects disabled)	Up to 3 concurrent inputs: • 2 × IP (NDI® HX2, SRT / RTSP) • 1 × HDMI	HDMI and NDI® HX2 can output 4K60P simultaneously
1080P & below	Supported on all HDMI, USB and IP inputs	Supported on all HDMI, USB and IP outputs
Video Processing		
NDI Protocol Supported	NDI®HX3	
Format Conversion	Supported on all inputs	
Audio		
Audio Inputs	1 × XLR (48V phantom power), 1 × Line-in (stereo), 6 × Audio In (follows video)	
Audio Outputs	1 × Line-out (stereo)	
Embedded Audio	HDMI, IP audio	
AFV (Audio Follow Video)	Supported, with independent control	
Audio Mixer	Per-input level adjustment, mute, routing	
Audio Processing	Gain control, AFV, mixing	
Recording Sample Rate	48 kHz (MP4 embedded audio)	
Monitoring / Meters	Real-time audio level meters on Multiview	
Switching		
Total Processing Layers	6 inputs + overlays	
Transitions	Built-in 8 transition effects: Cut, Cross Dissolve, Fade In/Out, etc.	
Quick Transition (PVW, PGM)	CUT key quickly transitions from PVW AUTO key triggers effects, and buttons quickly configure transition effects and duration. Supports fast switching between PGM and PVW with independent control.	
Media Buffer	4 × PNG/JPG static image buffers	
Layer Overlays	Titles, templates, Lower Third, digital clocks, rolling subtitles	
Layer Preset Function	Allows saving configured layers as presets, grouped into Layer Groups, with easy import/export for reuse across devices	
Picture-in-Picture (PIP)	Supports displaying input 1 as PIP with adjustable position	
Real-Time Preview	Supported	
Multiview	PVW, PGM, input thumbnails, audio levels, system status	
Auto Polling	Supported, with adjustable intervals	
Keying	Supports chroma key, luma key, linear key and pattern key; adjustable size/position, mask, premultiplication, gain, key invert, edge smoothing, foreground color correction, etc.	
Network		
Network Interfaces	1 × 1GbE (POE++ 72W)	
Streaming Protocols	NDI®HX3, RTMP, RTSP, SRT	
PTZ Control Protocols	RS232/RS485 (Visca); IP (Visca over IP, UDP/TCP, NDI® PTZ)	
Recording & Media		
Recording Format	MP4 (H.264 + AAC)	
Recording Resolutions	720P–4K	
Recording Media	USB flash drives, HDDs, SD cards	
File Splitting	5–60 minute segments	
Media Assets	PNG/JPG/MP4 for graphics overlays	
Control		
Control Interface	Physical control panel + Web interface	
Joystick	Hall-effect 4D joystick (Pan/Tilt/Zoom)	
Zoom Control	Rocker, knob, joystick	
Focus Control	Independent knob, with speed adjustment	
Preset Positions	Up to 6 per camera	
Transitions	CUT/AUTO, adjustable effect duration	
System Management		
System Management	Configuration import/export, quick synchronization	
Time Zone Support	-12 to +13 time zone support	
Web Control Features	Signal switching, PTZ control, layer, audio, recording, system settings	
Platform Streaming Support	YouTube, Twitch, and other RTMP/SRT platforms	
Power & Mechanical		
Power Input	DC 12V 5A	
Power Consumption	22W (idle)	
Dimensions	390.9 × 189.5 × 124 mm	
Display Screens	Main screen: 8.8" 1920×480, Control screen: 2.4" 340×192	
Hardware		
Memory (RAM)	8GB LPDDR4X	
Embedded Storage (eMMC)	16GB eMMC	
Connectivity Ports		
Type-C Multi-Function Port	Supports DP input (up to 1080P60)	
Type-C Host Port	Supports DP output (up to 1080P60), USB Host functionality, UVC/UAC input; Supports 5V/1.5A external power supply; Supports external docking stations or Type-C displays	
USB 2.0 Ports	USB 2.0 is commonly used to connect devices like mice, keyboards, USB flash drives, and external hard drives, and it supports docking stations.	

