



MIX ONE

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®HX/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®HX, 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 In

Audio is fully integrated into the production workflow, with support for professional microphones via XLR (with phantom power) and external sources via 3.5 mm stereo line-in. Embedded audio channels travel with video and remain independently adjustable, featuring gain control, Audio-Follows-Video (AFV), and flexible mixing. A dedicated stereo line-out enables real-time monitoring or external routing, ensuring reliable sound in any live production scenario.

Dual-NIC Networking with Reliable Streaming

A dual-NIC network architecture separates production traffic from public streaming networks, ensuring stable and secure operation 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.

Specifications

Product Name	Mix One
Part Number	TLC-70TC
Video	
Total Video Inputs	6 simultaneous
HDMI Inputs	2 × HDMI IN (4K60/50/30/25, 1080P60/50/30/25, 1080i60/50, 720P60/50/30/25)
USB Video Input	1 × USB Device (UVC/DP), up to 1080P60
IP Video Input Protocols	NDI®HX, RTSP, RTMP, SRT
HDMI Outputs	2 × HDMI OUT (PGM up to 4K60, AUX up to 1080P60 with Multiview/PVW)
USB/DP Outputs	UVC (MJPEG, up to 1080P60), DP (up to 1080P60)
IP Video Output Protocols	NDI®HX, RTSP, RTMP, SRT
IP Video Output Resolution	Up to 4K60
NDI Protocol Supported	NDI®HX
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
Upstream Keyers (USK)	2
Downstream Keyers (DSK)	2
Transitions	CUT, AUTO
Quick Transition (PGM, PVW)	Supports fast switching between PGM and PVW with independent control. CUT key quickly transitions from PVW AUTO key triggers effects, and buttons quickly configure transition effects and duration.
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	PGM, PVW, input thumbnails, audio levels, system status
Auto Polling	Supported, with adjustable intervals
Network	
Network Interfaces	2 × 1GbE (1 × POE++ 72W)
Network Isolation	Dual NIC design, separates camera network from public LAN
Streaming Protocols	NDI®HX, 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 ×2	USB 2.0 Host, for connecting mouse, keyboard, USB drives, external hard drives, etc.

