



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

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.

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
Transitions	CUT, AUTO

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

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) 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
Type-C Host Port	USB 2.0 Host, for connecting mouse, keyboard, USB drives, external hard drives, etc.

