TriCaster® TC410 Plus

Technical Specifications

Video Input	8 x simultaneous external video inputs, supporting any combination of compatible sources
Network Video Input	8 x IP video inputs via NDI, resolution-independent, with support for key and fill
SDI Video Input	4 x HD/SD-SDI connections supporting video input in any combination of standard formats, resolutions, and frame rates [1] • 1080p: 59.94, 50, 29.97, 25, 24, 23.976 • 1080i: 59.94, 50 • 720p: 59.94, 50, 29.97, 25 • 576i 25 • 480i 59.94 [1]*Available frame rates determined by session video standard (NTSC or PAL)*
PTZ	Support for Pan-Tilt-Zoom (PTZ) robotic cameras via serial and network protocols, including RS232, RS422, and IP, with integrated controls and preset system
Skype TX	Native support for Skype® video call input via Skype TX software integration
Network Video Output	4 x independent IP video mix outputs via NDI®
SDI Video Output	2 x independently configurable HD/SD video outputs, with support for up to 4 simultaneous external connections
Stream Output	2 x resolution-independent streaming video output, independently configurable, with simultaneous stream archive
Multiviewer Output	1 x DVI user interface with multiviewer 1 x HDMI multiviewer 1 x DisplayPort multiviewer
Mix/Effect Buses (M/E)	4 x M/E buses supporting video re-entry • 1 x Mix/Effect channel per bus with support for up to 2 sources • 2 x KEY layers per bus 1 x PREVIZ configuration and preview bus
DSK Channels	2 x DSK channels
Media	5 x media players • 2 x DDR • 2 x GFX • 1 x Sound
Media Buffers	15 x media buffers • 5 x animation buffers • 10 x graphic buffers
Keyers	Integrated LiveMatte® chroma and luma keying technology on all source channels and M/E buses • 8 x input keyers • 4 x media player keyers • 4 x M/E keyers • 1 x PREVIZ keyer • 15 x buffer keyers
COMPs	Integrated video composition engine on the switcher and each M/E bus to create, store, and apply layer configuration and DVE-style motion sequences • 16 x configurable COMP presets per bus
Virtual Sets	Integrated LiveSet® technology with 30+ live virtual sets and box effects included

DataLink	Integrated DataLink® technology enabling real-time, automated data input from internal and external sources, including webpages, spreadsheets, scoreboards, databases, RSS feeds, watch files, XML, CSV, ASCII and more
Macros	Record, store, edit, and automate commands and user-configured operation sequences • Attach to control panel buttons, keyboard shortcuts, hotspots, MIDI, and X-keys® buttons or GPI triggers • Attach to internal events and state changes, including audio, media playback, tally, and specific switcher actions • Supports control via web-based interface
Recording	6 x configurable video recording channels via IsoCorder® technology • 4 x QuickTime® archival video recorders (XDCAM HD compatible, 4:2:2 encoding, 24-bit audio, with timecode)2 • 2 x H.264 local video recorder (multiple profiles) • Ability to trigger up to 6 additional recordings on select NDI-enabled devices • 1 x MP3 audio recorder 2 QuickTime Player not required for playback in common NLE applications
Storage	1 x 3TB internal drive • Capacity varies by format, resolution, and file specification • Supports recording to external storage via USB 3.0 • Supports shared storage integration and third-party partner solutions
Grab	Grab full-resolution, deinterlaced still images from external video sources and outputs
Export	Export video and image files to social media, FTP, local or external volumes, and network servers, with optional transcoding
Audio Mixer	Integrated multi-channel audio mixer with support for quad-channel audio, DSPs, 4 x 4 x 4 audio input channel routing
Local Audio Input	4 x SDI embedded 1 x Balanced XLR stereo pair (Line) 3 x Balanced 1/4" stereo pairs Line) Support for USB audio device input via compatible WDM audio drivers
Local Audio Output	4 x SDI embedded 1 x Balanced XLR stereo pair 1 x Balanced 1/4" stereo pair 1 x Stereo ¼" (phones)
Network Audio	Native support for network audio input and output via NDI® Embedded audio supported for all NDI® input and output video signals Integrated support3 for Dante® networking protocol from Audinate® Support for AES67 protocol via compatible WDM audio drivers 3 Requires Dante Virtual Soundcard license from Audinate (sold separately) 4Requires third-party virtual sound card license (sold separately)
Supported Media File Formats	Import, store, and play back multimedia files, with optional transcoding, including: • Video: AVI, DV, DVCPro, DVCProHD, FLV, F4V, H.263, H.264, MOV, MKV, MJPEG, MPEG, MP4, WMV, WebM, and more • Image: PSD, PNG, TGA, BMP, JPEG, JPEG-XR, JPEG2000, EXR, RAW, TIF, WebP, and more • Audio: AIFF, MP3, WAV, and more
Monitoring	Support for up to 3 multiviewer displays with configurable workspaces and viewports
Signal Monitoring	Integrated waveform and vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 709
Processing	Video: Floating Point YCbCr +A 4:4:4:4 Audio: Floating Point, 96 kHz
Latency	Processing Latency: ~1.0-1.5 frames Practical Throughput Latency: 4 frames
A/V Standards	HD-SDI video conforms to SMPTE 292M SD video conforms to SMPTE 259M and ITU-R BT.656 Analog audio levels conform to SMPTE RP-155
Tally	Support for hardware tally via HD15 GPI connector, network tally via NDI®, and Blackmagic Design® SDI tally standard
Genlock	Genlock input supporting SD (Bi-level) or HD (Tri-level) reference signals
GPI	Supports GPI signals via JLCooper Electronics eBox GPI interface
MIDI	Support for standard MIDI protocol enabling third-party device control
System Drive	250GB SSD
NIC	2 x 1 Gigabit NIC
System Physical	2RU chassis with 400W PSU and multi-tiered hardware and software fail-safe • 19.0 x 3.5 x 19.57 in (48.3 x 8.9 x 49.7 cm) with rack ears attached

Subject to change without notice.