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 3G/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, 24, 23.976 • 576i 50 • 480i 59.94 *1 Available frame rates determined by session video standard (NTSC or PAL)*
PTZ	Support for up to 8 simultaneous 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	IP video output via NDI®, optionally configurable for: • 4 x independent video mix outputs
SDI Video Output	4 x 3G/HD/SD-SDI connections, optionally configurable for: • 2 x independent 3G/HD/SD video mix outputs
Stream Output	2 x resolution-independent streaming video output 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 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
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 distribution video recorders (multiple profiles)

	• 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 and 4x4x4 audio input routing
Local Audio Input	4 x SDI embedded
	1 x Balanced XLR stereo pair (Line)
	3 x Balanced 1/4" stereo pairs (Line)
Local Audio Output	4 x SDI embedded
	1 x Balanced XLR stereo pair
	1 x Balanced 1/4" stereo pair
	1 x Stereo 1/4" (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 support[3] for Dante™ networking protocol from Audinate®
	• Support for AES67 protocol via compatible WDM audio drivers[4]
	[3] *Requires Dante Virtual Soundcard license from Audinate (sold separately)*
	[4] *Requires 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
Throughput Latency	~1.0-1.5 frames
A/V Standards	• 3G-SDI video conforms to SMPTE 424M (Level A)
	• 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.