

TriCaster 450 EXTREME

Technical specifications.

Dimensions	19 x 3.5 x 22.5 (in) 48.3 x 8.9 x 57.2 (cm)
Weight	28 lbs (12.7 kg)
Video Processing	4:4:4:4 32-bit Floating Point
Audio Processing	4 channels, 96 kHz 32-bit Floating Point
Video Input	4 simultaneous inputs. Any combination of: HD-SDI, HD Component, SD-SDI, SD Component, Y/C (BNC) or Composite. HD-SDI Video Conforms to SMPTE 292M and SD Video Conforms to SMPTE 259M and ITU-R BT.656.
Audio Input	4 SDI Embedded 3 x 2 Balanced 1/4" (Mic/Line) 1 x 2 Balanced XLR (Mic/Line) Analog Audio Levels Conform to SMPTE RP-155 Phantom Power Support Every input supports seven-band equalizer and full stereo compressor/limiter Sources can be grouped and routed to multiple buses Digital audio inputs include audio time-base synchronizers to support unmatched digital audio time-bases
Video Output	2 simultaneous outputs HD-SDI, HD Component, SD-SDI, SD Component, Composite, Y/C (BNC) HDMI, DVI and VGA output for monitors and/or projector Output sources include Program out and AUX out (configurable for Program, Program clean, Preview, any input, Effects, any frame-store, alpha out)
Audio Output	2 SDI Embedded 1 x 2 Balanced XLR 1 x 2 Balanced 1/4" (AUX) 1 Stereo 1/4" (Phones) Every output supports seven-band equalizer and full stereo compressor/limiter
Supported Formats	NTSC: 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i Multi-Standard: NTSC-J; PAL 1080/25p, 1080/50i, 720/50p, 720/25p 576/25i
Source Mixing	Mix HD/SD resolution and 16:9/4:3 aspect ratios
Recording	4 simultaneous recording channels using proprietary IsoCorder™ multi-track video recording technology, with adjustable audio headroom Support for multi-format recording: MPEG-2 (high and normal profiles), QuickTime®, H.264, AVI, MP3 Full HD recording of any output or input source in all resolutions up to 1080p
Recording Capacity	~ 40 Hours (1080i) 1 trayless SATA III removable drive bay with hot-swap support for unlimited storage and backup
Live Streaming	Full HD live streaming in resolutions up to 720p (16:9 aspect ratio), with simultaneous archive Streaming Profile Manager with integrated Web browser for access to online CDN accounts to manage or view shows
Supported Stream Types	Adobe® Flash® to Flash media server connections or through browser based plug-ins

	Microsoft® Windows Media® Push/Pull Support for most common stream profiles Support for custom multi-bitrate streaming profiles
Network Connection	1 Gigabit connection for network inputs and streaming output
Network Source Support	2 dedicated channels for access to external network sources PC and Mac® displays mirrored via NewTek iVGA™ technology, iTunes™, and wireless iOS devices via Apple® AirPlay® on any supported apps, including audio, photos and video
Animation Store	Animation store builder with support for animation transitions with embedded audio on all 7 effects channels in the switcher
Virtual Inputs	4 independent, mix/effect-style channels, each with presets, overlay and dedicated channel for titles, frame-buffer or watch folder
Virtual Input Overlay	1 per channel, upstream with keying, transitions, and independent effects, including positioning, scaling, cropping and 3D rotation Support for full animation store transitions with embedded audio and alpha channel
Live Virtual Sets	24 HD live TriCaster virtual sets, with animated zoom and independent effects, including positioning, scaling, cropping and 3D rotation
Overlay	Dual downstream keys (DSK) with matting, transitions, and independent effects, including positioning, scaling, cropping and 3D rotation Support for full animation store transitions with embedded audio and alpha channel
Media Players	4 integrated digital media players, including 2 DDRs, Graphics, and Sounds players, with presets and alpha channel support, with individually adjustable audio levels for all clips
Preview Monitors	Full field rate displays, including Program, Look-Ahead Preview, and source windows configurable for All Monitors, External Monitors, Internal Monitors, and Preview Scopes Advanced alpha channel preview (alpha sources displayed against checkerboard)
Multi-View Monitor Output	Layout choices include All Monitors, External Monitors, Internal Monitors, Program, Preview, Effects, Preview/Program, and Waveform/Vectorscope
Projector Output	16:9 or 4:3 aspect ratio, up to 1920 x 1200 resolution
Integrated Character Generator	LiveText™2
Nonlinear Editor	SpeedEDIT™ 2
Playback Media Formats	Movie files: DNxHD, DV, DVCPPro, DVCPProHD, MOV, MKV, MJPEG, MPEG (1,2 in all profiles, program or transport streams), AVI, MOV, DV, H.263, H.264, FLV, WMV, MP4, WebM and more Still formats: PSD, PNG, TGA, BMP, JPEG, EXR, RAW, TIF, and more Audio formats: WAV, MP3, AIFF and more Import module is included for batch copying with optional transcoding of files (including Apple ProRes) onto TriCaster
Export Media Formats	Export module is included for batch copying with optional transcoding to a wide variety of different file formats and for a wide variety of different applications and devices Media types: AVI, DV, DVCPPro, MJPEG, MP4, H.264, MPEG-2, DVD, WebM, MOV and more Presets for external NLEs: Adobe Premiere, Avid MediaComposer, Apple® FinalCut Pro, and more Presets for all mobile platforms: Android®, iPad®, iPhone®, iPod® Touch and more
Signal Monitoring	Waveform and Vectorscope displays Full field rate with color preview

Timecode	External LTC timecode input feeds on-screen monitoring, show clock and embedded per-frame time-code in recorded files
Fail-Safe	Multi-tiered hardware and software fail-safe (audio and video)
Accessory Options	TriCaster™ 450 CS and TriCaster 850 TW TriCaster Virtual Set Editor, TriCaster LC-11 and TriCaster LiveText™2
Tally	DB 15 connector for 4 PGM row tally lights
Form Factor	2U Rack Moun