

Visually stunning shows, of any scale.

TriCaster® 8000

You work in a world where complex productions are the norm. And producing content at a superhuman pace is expected. TriCaster 8000 lets you reach more viewers—on more screens and in more places—with incredibly sophisticated shows.

A highly configurable, broadcast-integrated content production platform, TriCaster 8000 allows you to dominate vastly scalable, creative live productions with access to all available content at your fingertips. You have total integration with existing gear, and the ability to move seamlessly between events, from the most straightforward to the most complex—and back again. With unprecedented capabilities for automation, configuration, and control, the more complex your program is, the easier you can make it all come together.

Operators can easily keep up with the higher demands of live production control, and the need to deliver live media to multiple outlets, behind the console of the TriCaster 8000 Control Surface. With every function under fingertip control, it's the most practical and coolest way to handle the heat of a hot production.

At a glance

- **Enterprise Integration**
Maximize the potential of any new or existing infrastructure with industry-standard connectivity, multi-tiered hardware and software fail-safes, redundant power supplies, hot-swappable removable storage, and more
- **Virtually Unlimited Scalability**
Add router control to multiply camera sources and deliver to more outputs without conversion; look even bigger with multi-input virtual sets, or downsize for a small-scale show, seamlessly
- **Media Publishing**
Instantly publish content to popular social media sites; upload to FTP sites, or transfer to storage volumes and network locations; share clips and stills during production, or upload your entire show within minutes after production wraps
- **Automation**
Streamline sophisticated operation sequences that are too complex for real-time action with custom Macro commands; extend control behind the scenes and in front of the camera with MIDI support and interactive Hot Spots; add robotic PTZ cameras that you can control remotely without the need for additional staff
- **Holographic Live Virtual Sets**
Import custom, photorealistic virtual environments created from panoramic images captured with a smartphone, point-and-shoot, or DSLR camera, with support for 3D positioning of sources and live virtual camera movements (requires Virtual Set Editor 2.5 or higher, sold separately)



Monitors not included.

Switcher Channels	24 – 10 external, 6 internal, 8 M/E buses
Video Input	8 simultaneous live video sources in any combination of supported connection types, resolutions and frame rates (including PsF selections): HD-SDI, HD Component, SD-SDI, SD Component, Y/C, or Composite Input capacity expandable via compatible external video routers manufactured by AJA®, Blackmagic Design®, Ensemble Designs, Miranda, Utah Scientific, and brands supporting Grass Valley® Native Protocol
Network Sources	8 live inputs via Gigabit connection, selectable from any available NDI™ network sources with support for video, audio, and alpha channel
Robotic Camera Support	Access up to 8 live Pan-Tilt-Zoom (PTZ) robotic cameras via standard serial and network protocols, with preset system and user interface control over camera orientation, zoom, focus, and iris
Media	5 integrated digital media sources for video, graphics, and sounds (2 DDRs, 2 GFX and Sound) + 15 buffers
Buffers	10 animation buffers and 5 still & title buffers to store and playback video, animations, titles, and graphics
Mix/Effect Buses (M/E)	8 freely configurable M/E channels with re-entry for video mixing, compositing, effects, real-time motion tracking, and virtual sets, each supporting 4 independent Key layers, TransWarp effects, and Adobe® Photoshop® blending modes between layers
Macros	Record configurations and command sequences to supported control methods for recall and automation, with built-in macro editor and support for cross-platform operation between TriCaster and 3Play®
DSKs	4 primary DSK channels, plus 4 additional Key layers per M/E bus, each with independent transition controls, 3D DVE, edge feathering, scaling, cropping, and integrated TransWarp effects
Effects and Transitions	Integrated TransWarp effects engine on all effects channels supports standard transitions, customizable animation store transitions with audio, and overlay effects; Animation Store Creator for custom animations
Virtual Sets	30+ HD live virtual sets supporting up to 4 switchable live sources, with presets, multiple camera angles, real-time reflections, and animated pan, zoom, and pedestal moves
Holographic Live Virtual Sets	Support for custom virtual environments generated from panoramic smartphone, camera, or DSLR images (requires Virtual Set Editor 2.5 or higher)
Video Output	Configurable for up to 14 output connections, with support for key output and per-connection signal settings - 3 x SDI - 3 x Analog (configurable for Component or Y/C + Composite) - HDMI output - 2 x supplemental display outputs for additional monitors, screens, or projectors - Network output for live streaming (NDI) - A/V output to network-connected TriCaster over local network (NDI)
Recording	Multi-track, multi-format recording of up to 8 simultaneous channels via IsoCorder™ technology, including native recording in up to 1080p with timecode and encoding format selectable per source: QuickTime® (XDCAM HD compatible, 4:2:2 encoding, 24-bit audio), MPEG-2 (high or normal profile), AVI (SpeedHQ), and H.264 (high or Web quality)
Recording Capacity	Includes 3TB internal drive accommodating ~70 hours 1080i (varies by resolution and format; capacity expandable using additional supported storage) - 4 trayless SATA III removable drive bays with hot-swap support - Supports recording to external storage via USB 3.0 - Supports shared storage integration via third-party partner solutions
Media Publishing	Supports direct content upload to YouTube™, Facebook, Twitter™, FTP, local or external volumes, and network servers

Live Streaming	HD live streaming with simultaneous archive, presets in up to 720p, and support for most common streaming profiles and custom multi-bitrate streaming profiles, including RTMP streaming using H.264 (ex. Adobe® Flash® Media Server), Microsoft® Windows Media® Push/Pull, and browser-based streaming applications, with Ustream® and Livestream® native integrated support
Audio Inputs	8 x SDI Embedded 8 x AES3/EBU 8 x 2 Balanced XLR (Mic/Line) Phantom Power Support
Audio Outputs	3 x SDI Embedded 2 x AES3/EBU 4 x Balanced XLR 4 x Balanced XLR (AUX) 1 x Stereo 1/4" (phones)
Audio Mixing	Integrated multi-channel audio mixer for internal and external audio sources, outputs, stream, and headphones, with 4 fully independent stereo output mixes and configurable settings including pan control, solo auditioning, 7-band equalizer, and compressor/limiter
Supported Session Formats	Phantom Power Support
Playback Media Formats	AVI, DV, DVCPro, DVCProHD, FLV, F4V, H.263, H.264, MOV, MKV, MJPEG, MPEG (1, 2, all profiles, program or transport streams), MP4, WMV, WebM, PSD, PNG, TGA, BMP, JPEG, EXR, RAW, TIF, AIFF, MP3, WAV, and more, with Import Media application for batch import with optional transcoding of files (including Apple ProRes)
Monitoring	DVI monitor outputs for user interface and multiview preview displays, with selectable layouts and dual-monitor display combinations via Workspaces control panel, freely configurable viewports, and overlays
Signal Monitoring	Integrated Waveform and Vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 601 and 709
Latency	Ultra-low, between 1 and 2 frames
MIDI Control	Support for standard MIDI protocol enabling third-party MIDI device control of TriCaster operations via macros
System Physical	4U Rack Mount, with 550W redundant, removable power supply and multi-tiered hardware and software fail-safe; includes TriCaster 8000 hardware control surface

Subject to change without notice.

For complete technical specifications, please visit the TriCaster 8000 product page at www.newtek.com.

Multi-standard pricing and availability may vary. Please contact your local reseller for details.

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