

# A force to be monetized.

## 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 from the most straightforward, to the most complex events with ease. Publish to social media platforms during production, and adapt to any custom configuration—even extended ones with upstream routers and mirrored systems. With unprecedented capabilities for automation and control, the more complex your program, 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 CS. 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

- **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
- **Mirroring**  
Support for synchronized, mirrored operation between multiple TriCaster 8000 systems connected to the same local network to provide fail-safe operation and expand programming opportunities
- **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, 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<br>- 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               | 2 live inputs via Gigabit connection, selectable from any networked computers via included NewTek iVGA client application; wireless Apple® AirPlay® devices; TriCaster; 3Play; USB video sources; video over IP sources; RTMP or RTSP streams; HTTP streaming video sources; and third-party partner solutions   |
| 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 players (2 DDRs, 2 GFX and Sound) + 15 network-shareable 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 (VSE 2.5 required)  |
| Video Output                  | Configurable for up to 14 output connections, with support for key output and per-connection signal settings<br>- 3 x SDI<br>- 3 x Analog (configurable for Component or Y/C + Composite)<br>- HDMI output<br>- 2 x VGA display ports for additional displays or projectors<br>- Network output for live streaming<br>- AV output to network-connected TriCaster over local network                                      |
| 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)   |
| 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 SDI Embedded<br>8 AES3/EBU<br>8 x 2 Balanced XLR (Mic/Line)<br>Phantom Power Support   |
| Audio Outputs             | 3 SDI Embedded<br>2 AES3/EBU<br>4 Balanced XLR<br>4 Balanced XLR (AUX)<br>1 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, companion iPad® audio mixing app and support for Avid® Artist Mix audio control surface  |
| Supported Session Formats | - NTSC model: 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i<br>- Multi-Standard model: NTSC 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i; NTSC-J 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i; PAL 1080/25p, 1080/24p, 1080/50i, 720/50p, 720/25p, 720/24p, 576/25i |
| 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 viewpoints 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  |
| Mirroring                 | Redundant operation and synchronized control supported between TriCaster 8000 systems connected to the same local network  |
| 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   |
| GPI Support               | Supports 2 x 24 GPI signals via JLCooper eBOX GPI system   |
| 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](http://www.newtek.com).

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

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