

Switcher Channels	24 – 10 external, 6 internal, 8 M/E buses
Video Input	<p>8 simultaneous live video sources, in any combination of supported connection types, resolutions and frame rates (including PsF selections)</p> <ul style="list-style-type: none"> - Direct input of cameras and video devices in any combination of HD-SDI, HD Component, SD-SDI, SD Component, Y/C or Composite connections - Per-input format configuration, scaler (including 3:2 intelligent pull-down) and frame synchronizer enabling intermixing of formats - Per-input color correction, crop and LiveMatte keyer controls - Support for Key + Fill input pairing
Network Sources	<p>2 live inputs via Gigabit connection, selectable from any networked sources with support for video, audio and alpha channel</p> <ul style="list-style-type: none"> - Supported sources include networked computers via included NewTek iVGA client application; wireless Apple® AirPlay® devices; TriCaster 8000, 860, 460 or 410; 3Play 4800, 820 or 425; USB video sources; video over IP sources; RTMP or RTSP streams; HTTP streaming video sources; and a variety of third-party partner solutions
Robotic Camera Support	<p>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</p>
Media	<p>5 integrated digital media sources for video, graphics and sounds (2 DDRs, 2 GFX and Sound) + 15 buffers</p>
Buffers	<p>15 content buffers to store and playback video, animations, still images and graphics</p> <ul style="list-style-type: none"> - 5 animation buffers and 10 still & title buffers, with multiviewer, animation preview, title editing and presets - Shareable across a network for watch folder application, with real-time edit and update of content

Mix/Effect Buses (M/E)	<p>8 freely configurable M/E channels for video mixing, compositing, effects and virtual sets, each with independent Key layer and support for TransWarp effects</p> <ul style="list-style-type: none"> - Mix mode: Enables secondary switcher operation for output, submix or recording, with Program/Preview workflow and transitions - Effects mode: Enables multi-layer compositing, effects generation and virtual set application, with per-source 3D DVE, scaling, cropping and keying
Macros	<p>Record configurations and operation sequences, then attach to keyboard shortcuts, control surface actions, MIDI controllers, or on-screen hotspots for recall and automation</p> <ul style="list-style-type: none"> - Macro editor for modifying user-defined macro configurations and sequences - Augment and extend TriCaster operation using macro plug-ins to control external devices
DSKs	<p>2 primary DSK channels, plus 1 additional Key layer per M/E bus, each with independent transition controls, 3D DVE, scaling, cropping and integrated TransWarp effects</p>
Effects and Transitions	<p>Integrated TransWarp effects engine on all effects channels supports standard transitions, customizable animation store transitions with audio, and overlay effects</p> <ul style="list-style-type: none"> - Animation Store Creator for custom animations - Supports per-pixel alpha blending between sources and real-time 3D warping of video or graphics
Virtual Sets	<p>30+ HD live virtual sets, with presets, multiple camera angles, real-time reflections, and specular highlights</p> <ul style="list-style-type: none"> - Live pan and zoom of virtual camera and customizable virtual camera presets with animated pan, zoom and pedestal moves - Support for up to 2 switchable live sources, with per-source 3D DVE, scaling, cropping and keying - Supports custom-created virtual sets generated using NewTek Virtual Set Editor or third-party partner solutions

Holographic Live Virtual Sets	<p>Support for custom virtual environments generated from panoramic smartphone, camera or DSLR images</p> <ul style="list-style-type: none"> - Select sets included; custom sets require Virtual Set Editor 2.5
Hotspots	<p>Up to 8 freely configurable, interactive hotspots per input for Macro control</p>
Video Output	<p>Configurable for up to 12 output connections, with support for key output and per-connection signal settings</p> <ul style="list-style-type: none"> - 3 x SDI - 3 x Analog (configurable for Component or Y/C + Composite) - HDMI output - Network output for live streaming - A/V output to network-connected TriCaster over
Recording	<p>Multi-track, multi-format recording of up to 8 simultaneous channels via IsoCorder™ technology</p> <p>Native recording in up to 1080p with timecode</p> <p>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)</p> <p>Freely choose to add recordings to Publish queue and DDR destinations</p>
Recording Capacity	<p>Accommodates ~ 200 hours 1080i or ~ 1200 hours 480i via 4 removable 2TB media drives (included)</p> <p>4 trayless SATA III removable drive bays with hot-swap support for unlimited storage and backup</p> <p>Simultaneous recording of 2 channels per media drive via IsoCorder</p>
Live Streaming	<p>HD live streaming via Gigabit connection, with simultaneous archive</p> <p>Presets in up to 720p, supporting 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</p> <p>Streaming Profile Manager with integrated Web browser</p>

Audio Inputs	8 SDI Embedded
	8 AES3/EBU
	8 x 2 Balanced XLR (Mic/Line)
	Phantom Power Support
Audio Outputs	3 SDI Embedded
	2 AES3/EBU
	4 Balanced XLR
	4 Balanced XLR (AUX)
	1 Stereo 1/4" (phones)
Audio Mixing	<p>Integrated multi-channel audio mixer for internal and external audio sources, outputs, stream and headphones, with 4 fully independent stereo output mixes: 2 Master, 2 AUX</p> <ul style="list-style-type: none"> - Pan control, solo auditioning, seven-band equalizer and stereo compressor/limiter per input and output, with per-input audio delay control - Multi-bus routing of audio source channels to any combination of outputs, with independent level control over channels 1/2 and 3/4 for quad sources - AFV system enabling audio to follow multiple video sources, with support for unlimited audio grouping combinations - Digital audio inputs equipped with audio time-base synchronizers - Supports companion iPad® audio mixing app and Avid® Artist Mix audio control surface
Supported Formats	NTSC model: 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i
	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)
Export Media Formats	Export media application for batch copying with optional transcoding of files to compatible formats

	for different applications and devices: Apple ProRes, AVI, DV, DVCPro, DVD, H.264, MOV, MPEG-2, MJPEG, MP4, WebM and more
Post Production	NewTek SpeedEDIT™ 2 non-linear editor available via download for Add-On installation
	NewTek SpeedHQ codecs for Mac and PC for extended file compatibility
Monitoring	DVI monitor outputs for user interface and multiview displays - Preview all sources or select sources in a variety of layouts and dual-monitor display combinations via Workspaces control panel - A/V indicator and guide overlays configurable per viewport
Signal Monitoring	Integrated Waveform and Vectorscope, full field rate with color preview and support for ITU-R Rec. 601 and 709
Session Management	Setup and store session settings in reusable template sessions
Processing	Video: 4:4:4:4, 32-bit Floating Point
	Audio: 4 channels, 96 kHz, 32-bit Floating Point
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
MIDI Control	Support for standard MIDI protocol enabling third-party MIDI device control of TriCaster operations via macros
Control Surface	Includes TriCaster 855 hardware control surface
	Surface ~ 28.5 x 0.5 x 11.6 in (72.4 x 1.3 x 29.5 cm)
	Base ~ 27.5 x 2.0 x 10.8 in (69.9 x 5.1 x 27.4 cm)
	18.1 lbs (8.2 kg)
System Physical	4U Rack Mount, with 550W redundant, removable power supply and multi-tiered hardware and software fail-safe
	19.0 x 7.0 x 20.5 in (48.3 x 17.8 x 52.0 cm)
	44 lbs (20 kg)

24-Channel, Multi-Camera Production.

With the 24 channel, multi-camera TriCaster 855, you can have up to 8 cameras, plus 5 digital media players for video clips, graphics and titles, and 2 network channels for sharing video and audio from any Windows PC, Mac or wireless iOS device. 8 M/E-style virtual inputs let you stage live virtual sets, and create custom picture effects and presets, when you need to give your big show even bigger impact.

Maximum Control.

The bigger your live production, the more sources there are that need close management. With keyboard and mouse control or the intuitive control surface, you can click your way to every function of the system. With the highly responsive control surface console, you get immediate control—a physical extension of your reflexes—orchestrating every move with familiar production controls at your fingertips, for live, hands-on navigation of the system UI.

Facility-Class.

TriCaster 855 glides smoothly into your control room or live truck rack—ready to rock. With redundant power supply and multi-tiered fail-safe, you have industrial-strength performance and the ability to adapt to every situation. Industry-standard SDI, more-extensive format compatibility than ever, and a long list of file types allow the TriCaster 855 to ease into your workflow and handle your most challenging needs.

Multi-Track Iso-Recording.

IsoCorder™ multi-track video recording technology combines the capabilities of literally racks of video capture equipment. This innovative technology saves loads of space, enhancing your studio with a powerful, built-in, real-time ISO recording system of all 8 camera inputs, simultaneously—right inside the user interface. Record your entire show, select camera footage, and more, at full resolution to meet your most challenging post-production demands.

Electrifying Visual Effects.

Customizing your signature look—even for multiple shows—requires a style that makes an impression on your audience. TriCaster 855 hosts the most powerful integrated effects engine in live production. Choose from full-color, animated transitions with alpha channel and embedded audio; deliver a cohesive presentation with imaginative, branded elements, like real-time cloth dynamics, 3D video warping and transformations with TransWarp effects and motion overlays. And, create your own custom effects using the included Animation Store Creator application.

One-Size-Fits-All File Compatibility.

TriCaster 855 lets you usher media assets from pre-production, to live (or from post to distribution), in no time. With QuickTime® encoded files embedded with timecode and 4 audio tracks, you have the comfort of a high-quality, universal file format that floats effortlessly between TriCaster, Mac® and Windows® platforms, and all common editing and post-production software. Plus, codecs for Mac and PC let you equip your entire facility to encode media assets for optimized, real-time playback.

High Capacity.

Enjoy the capacity for hundreds of hours of recorded media. 5 integrated digital media players are on-hand to augment your production, on top of 10 live and 8 virtual sources. Need more? Swap out media drives for more capacity. Use the session library to save settings and assets for each production. Shift from show to show—without missing a beat.

Future Proof.

Be prepared, no matter what. Go ahead and change the formats you produce in; TriCaster will be a step ahead with native resolution support from SD, to 1080p HD. You'll never have to transcode or turn down content from different formats, resolutions, and file types—mix any of them natively for input, output or playback. And with instant access to free software updates, you can always count on having the latest features and constant innovation.

Record Live Streaming Video, Simultaneously.

You can, when both Web streaming and program recording are built right into your production operation. Maximize online views with support for multi-bitrate streaming profiles, and even access online CDN accounts and view streams in real time with a built-in Web browser. Without missing a beat, record the entire program in the background for uploading, later viewing, archiving, or saving to disk.

Stunning Studio Sets and Backgrounds.

Wow your audience, while raising eyebrows and the profile of your show. With built-in virtual sets, and support for standalone Virtual Set Editor 2.0, you can have a network-style studio environment without the high cost or heavy construction. Broadcast live from a multi-angle virtual set that sports your company logo, with key elements you can edit.

Complement your presentation with double-box effects, featuring your own video and graphics.