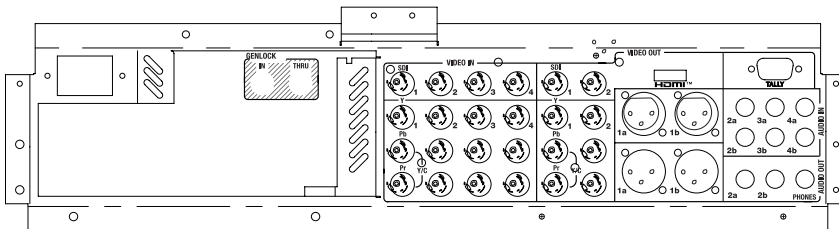# Small Productions that Make a Big Impact

TriCaster™ 455

Raise the level of your production without raising the budget. TriCaster 455 gives you professional-grade gear in a compact, easy to use system so you can quickly reach your audience from anywhere—booth, studio, van, or small control room.

TriCaster 455 combines professional four-camera, 14-channel live production capabilities with built-in Web streaming in one, compact system. Satisfy the visual demands of your viewers with network-style compositions, virtual sets, transitions, brand elements, and more. And do it all with a completely integrated, all-in-one live production solution. Go live. Go big. On the road, or onsite.

A companion hardware control surface is now included as standard with each TriCaster 455 system. The operator has intuitive, hands-on control of all TriCaster functions –while small teams are also able to transfer multiple tasks to additional users on the system keyboard, Avid Artist Series audio control surface, or iPad® remote audio mixing app.

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

At a Glance:

- **Capture every source**
  NewTek's own IsoCorder™ technology lets you record up to four isolated, simultaneous feeds during live production, replacing racks of gear—without the expense

- **Customize your brand with incredible effects**
  Unleash the creative potential of customizable, on-screen visuals with the ability to incorporate real-time cloth dynamics with warped video, overlays, and sound in and out; plus, the ability to build your own warping transitions with Animation Store Creator tools

- **Play anything and work with anyone**
  Eliminate the need to convert exported files for Mac or PC-based editing with radically extended file format support; speed up post-production workflows and enable wider integration

- **Mix it up**
  Delegate audio mixing tasks to a separate iPad® control app or Avid Artist series control surface operator for greater flexibility in configuring audio prior to or during a show

NewTek

TriCaster™ 455 Tech Specs

Switcher Channels	14 – 6 external, 4 internal, 4 virtual inputs
Video Input	4 simultaneous live video sources, in any combination of HD-SDI, HD Component, SD-SDI, SD Component, Y/C (BNC) or Composite connections and resolutions
Network Sources	2 live sources via Gigabit connection, selectable from any networked computer or Apple® AirPlay® device
Media	5 integrated digital media sources for video, graphics and sounds
Frame Buffer	9 channels for static graphics or watch folder
Virtual Inputs	4 independent, mix/effect-style channels, with transitions and per-source 3D positioning, scaling and cropping
DSKs	2 primary DSK channels and dedicated upstream overlay per virtual input, each with independent transition controls, 3D positioning, 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 - Supports per-pixel alpha blending between sources and real-time 3D warping of video or graphics
Virtual Sets	24 HD live virtual sets, with multiple camera angles, real-time reflections, specular highlights, animated zoom and presets
Video Output	Up to 4 output connections and 2 independent A/V output signals - Mix and match output formats, connection types, resolutions and aspect ratios - HD-SDI, HD Component, SD-SDI, SD Component, Y/C (BNC) or Composite - HDMI, DVI and VGA output for displays or projector - Network output for live streaming
Recording	Multi-track, multi-format recording of up to 4 simultaneous channels via IsoCorder™ technology - Native recording in up to 1080p with timecode
Recording Capacity	~ 20 hours 1080i or ~ 120 hours 480i 4 trayless SATA III removable drive bays with hot-swap support for unlimited storage and backup
Live Streaming	HD live streaming via Gigabit connection, with presets in up to 720p, supporting most common streaming profiles and custom multi-bitrate streaming profiles, configured via browser based plug-ins, Adobe® Flash® to Flash media server connections or Microsoft® Windows Media® Push/Pull - Streaming Profile Manager with integrated Web browser and integrated Livestream® plug-in
Audio Inputs	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
Audio Outputs	2 SDI Embedded 1 x 2 Balanced XLR 1 x 2 Balanced 1/4" (AUX) 1 Stereo 1/4" (phones)
Audio Mixing	Integrated multi-channel audio mixer for internal and external audio sources, outputs, stream and headphones - Seven-band equalizer and full stereo compressor/limiter per input and output - Digital audio inputs equipped with audio time-base synchronizers - Supports iPad® audio mixing app for touchscreen remote control of audio mixer
Supported Formats	NTSC model: 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i Multi-Standard model: NTSC-J; PAL 1080/25p, 1080/50i, 720/50p, 720/25p, 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) - NewTek SpeedHQ codecs for Mac and PC for extended file compatibility with TriCaster and system applications
Export Media Formats	Export media application for batch copying with optional transcoding of files to compatible formats for different applications and devices: AVI, DV, DVCPro, DVD, H.264, MOV, MPEG-2, MJPEG, MP4, WebM and more - Presets for NLEs: Adobe Premiere®, Avid® Media Composer®, Apple® Final Cut Pro®, and more - Presets for mobile platforms: Android®, iPad®, iPhone®, iPod Touch® and more
Monitoring	Selectable layouts for user interface and multiview preview displays
Signal Monitoring	Integrated Waveform and Vectorscope, full field rate with color preview and support for ITU-R Rec. 601 and 709
Processing	Video: 4:4:4:4, 32-bit Floating Point Audio: 4 channels, 96 kHz, 32-bit Floating Point
Physical	2U Rack Mount, with 430W power supply and multi-tiered hardware and software fail-safe 19 x 3.5 x 22.5 in / 28 lbs (48.3 x 8.9 x 57.2 cm / 12.7 kg)

Subject to change without notice. For complete product description, features and technical specifications, please visit newtek.com

NewTek