# TriCaster™ 460

Raise the level of your mobile production without raising the budget. TriCaster 460 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 460 provides incredible flexibility to producers on the road and in small spaces for everything from connectivity and program output, to source footage access after the fact, and available media sources. Elevate everyday productions to network-style compositions with real-time, 4 M/E compositing, virtual sets, transitions, brand elements, and more—all integrated within a compact 2U frame. Quickly capture and create compelling live and post-produced content with on-board tools that save space and costs. Go live. Go big. On the road, or onsite.

With an optional hardware control surface and support for a range of external control devices for audio mixing, robotic camera operation, sequence commands, and even gesture-based talent triggers, TriCaster 460 gives you complete control of your content, whether you're producing for broadcast, streaming live to the Web, projecting to a big screen, creating an engaging second-screen experience—or all of the above.

## At a Glance

- **Multi-Track ISO Source Recording**
  Record up to four isolated, simultaneous feeds during live production with IsoCorder™ technology built into the system, replacing racks and racks of space-wasting gear – without the expense

- **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 memory presets and key commands; extend control behind the scenes and in front of the camera with MIDI support and interactive Hot Spots; and add robotic PTZ cameras that you can control remotely without the need for additional staff

- **Holographic Live Virtual Sets**
  Create custom, photorealistic virtual environments from panoramic images using 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)

- **Multi-Channel Audio Mixer**
  Deliver pristine sound with adjustable audio for all sources, plus 4 fully independent stereo output mixes; robust audio follow video and routing configuration; touchscreen and tactile remote control via the iPad® audio app and native support for Avid® Artist Mix audio control surfaces

Monitors not included. Control Surface optional.

| Switcher Channels | 15 – 6 external, 5 internal, 4 M/E buses |
|---|---|
| Video Input | 4 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 |
| 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 4 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 | 4 integrated digital media players (2 DDRs, GFX and Sound) + 15 network-shareable buffers |
| Buffers | 5 animation buffers and 10 still & title buffers to store and playback video, animations, titles and graphics |
| Mix/Effect Buses (M/E) | 4 freely configurable M/E channels for video mixing, compositing, effects and virtual sets, each with independent Key layer and support for TransWarp effects |
| Macros | Record configurations and operation sequences to various control methods for recall and automation, with built-in macro editor |
| DSKs | 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 |
| 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 2 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 9 output connections, with support for key output and per-connection signal settings<br>- 2 x SDI<br>- 2 x Analog (configurable for Component or Y/C + Composite)<br>- HDMI output<br>- Network output for live streaming<br>- A/V output to network-connected TriCaster over local network |
| Recording | Multi-track, multi-format recording of up to 4 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) |
| Grab | Grab still images from all inputs and outputs, with toggle option to add grabs to Publish queue, Media Player presets and Buffer destinations |
| 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 | 4 SDI Embedded<br>3 x 2 Balanced 1/4" (Mic/Line)<br>1 x 2 Balanced XLR (Mic/Line)<br>Phantom Power Support |
|---|---|
| Audio Outputs | 2 SDI Embedded<br>1 x 2 Balanced XLR<br>1 x 2 Balanced 1/4" (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 and HDMI monitor outputs for user interface and multiview displays, with selectable layouts and dual-monitor display combinations via Workspaces control panel |
| Signal Monitoring | Integrated Waveform and Vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 601 and 709 |
| MIDI Control | Support for standard MIDI protocol enabling third-party MIDI device control of TriCaster operations via macros |
| System Physical | 2U Rack Mount, with 430W power supply and multi-tiered hardware and software fail-safe; optional TriCaster 460 hardware control surface |

Subject to change without notice.
For complete technical specifications, please visit the TriCaster 460 product page at www.newtek.com.

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

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