

Link do produktu: <https://www.wamm.pl/vizrt-tricaster-2-elite-p-2788.html>

## Vizrt TriCaster 2 Elite



Dostępność	<b>Dostępny</b>
Czas wysyłki	<b>24 godziny</b>
Numer katalogowy	<b>TC2E3RU</b>
Kod producenta	<b>TC2E3RU</b>
Producent	<b>Vizrt</b>

### Opis produktu

**TriCaster® 2 Elite It's Transformative. It's Setting New Standards. It's Better Than Broadcast.**

The TriCaster 2 Elite is the most complete video production platform available today, and sets a new platinum standard for how much you can achieve with a single system.

### **A transformative IP based digital media production solution**

TriCaster 2 Elite is a digital media production system with IP connectivity through NDI®. TriCaster 2 Elite moves beyond being only a live video production system to an all-encompassing digital media environment to create content for Internet, mobile, and television distribution.

The agile software driven operation, IP native technology, and production functionality of TriCaster 2 Elite provides extensive capabilities, connectivity, and control. With flexible implementation, integration of standard network infrastructures, a more complete set of capabilities, and a unique capacity for distributed production, TriCaster 2 Elite removes the traditional boundaries of media formats, I/O, channels, and delivery.

### **Complete Digital Media Production**

Produce digital media content with multi-channel recording, multi-channel remote guest conferencing, upload of clips, multi-angle instant replay functionality, packaging of media content including multi-cam acquisition, compositing of sophisticated static and animated graphics, multimedia and visual effects, advanced audio processing, input and output of video in non-standard aspect ratios, frame rates, and resolutions for any platform and destination. Deliver with up to 8 3G or 2 UHD configurable mix outputs.

### **Limitless IP Processing**

NDI® video, audio and data transmission over IP with near-zero latency and instant access to and seamless interchange with essentially unlimited IP sources from anywhere across the network in real time. Linking of multiple locations over IP to create sophisticated multi-system, multi-site workflows. Support for up to 32 video input sources and up to 48 output signals over IP, all independently configurable through software.

## Interconnected Production

Inputs, outputs, and media assets are readily available and accessible by any user in any location on the network. Configure custom user interfaces accessible with LivePanel™. A comprehensive macro automation system automates settings and supports custom command sequences. Integrate production automation with Live Story Creator to run shows from formatted Microsoft Word scripts.

## Distributed Operation

Use NDI® technology to move video, audio, and data from one TriCaster 2 Elite system to another. Encompass compatible systems, devices, and applications available to the network. Communicate with other systems and compatible edge devices over IP and become accessible for operation from any location on your network—even from multiple remote locations.

## Specyfikacja Techniczna

### Video Input

32 x simultaneous external video inputs, supporting any combination of compatible sources in resolutions up to UHD at frame rates up to 60fps (2160p 59.94)

### Network Video Input

32 x IP inputs via NDI®, resolution-independent, with support for key and fill

### SDI Video Input<sup>1</sup>

8 x 3G/HD/SD-SDI connections supporting video input in any combination of standard formats, resolutions, and frame rates<sup>2</sup>

- 1080p: 59.94, 50, 29.97, 25
- 1080i: 59.94, 50
- 720p: 59.94, 29.97, 25
- 576i 50
- 480i 59.94

*1 Optionally supports up to 32 simultaneous 3G/HD/SD-SDI video inputs or quad-link 3G-SDI video inputs (4K UHD) via network integration with NewTek NC1 conversion modules*  
*2 Available frame rates determined by session video standard (NTSC or PAL)*

### PTZ

Support for up to 32 simultaneous Pan-Tilt-Zoom (PTZ) robotic cameras via serial and network protocols, including RS232, RS422 and IP, with integrated controls and preset system

### Conference Calling

Support for multiple simultaneous video call inputs with Microsoft Skype TX, Microsoft Teams™, Zoom Meetings™, Slack, Discord™, and Tencent™ software integration using the Live Call Connect feature,

## Video Output

Configurable for up to 8 independent HD or 2 UHD video mix outputs, with simultaneous delivery via IP and SDI

## Network Video Output

48 x IP outputs via NDI® (HD and SD sessions only)

- 8 x video mix outputs in resolutions up to 1080p at frame rates up to 60fps (1080p 59.94) or 2 x UHD video mix outputs at up to 60 frames per second (2160p 59.94)
- 8 x direct IP source outputs via NDI® translation of local SDI inputs or 2 x upconverted UHD outputs at up to 60 frames per second (2160p 59.94)
- 4 x direct IP source outputs via NDI® translation of media players, with support for embedded alpha channel
- 15 x direct IP source outputs via NDI® translation of media buffers, with support for embedded alpha channel
- 3 x Multiviewer outputs (if 3 monitors are connected).  
4K support on 2x Multiviewer outputs while the 3rd outputs in HD
- 1 x User Interface with dedicated multiviewer
- 1 x teleprompter output (LiveStory™ Creator)
- 8 x selectable IP outputs via internal NDI® matrix router

## SDI Video Output

8 x 3G/HD/SD-SDI connections, optionally configurable for:

- 8 x independent 3G/HD/SD video mix outputs supporting standard NTSC and PAL formats, resolutions, and frame rates<sup>3</sup>
- 2 x UHD video mix output via 3G-SDI quad-link grouping, supporting frame rates up to 60fps (2160p 59.94)

*3 Available frame rates determined by session video standard (NTSC or PAL)*

## Stream Output

2 x resolution-independent streaming video outputs, independently configurable, with simultaneous stream recording. Support for SRT streaming has been enabled.

## Multiviewer Output

4 x multiviewer outputs supporting standard display resolutions, using any combination of available connections. Support for 4K on 2x DisplayPorts

- 1 x HDMI
- 3 x DisplayPort

## Mix/Effect Buses (M/E)

8 x M/E buses supporting video re-entry

- 1 x Mix/Effect channel per bus with support for up to 4 sources
- 4 x KEY layers per bus
- 9 x memory slots per bus

1 x PREVIZ configuration and preview bus

## DSK Channels

4 x DSK channels

## Media

5 x media players

- 4 x DDR
- 1 x Sound

15 x media buffers

- 10 x animation buffers with GIF support
- 5 x graphic buffers

## Keyers

Integrated LiveMatte™ chroma and luma keying technology on all source channels and M/E buses

- 32 x input keyers
- 4 x media player keyers
- 8 x M/E keyers
- 1 x PREVIZ keyer
- 15 x buffer keyers

## COMPs

Integrated video composition engine on the switcher and each M/E bus to create, store, and apply layer configurations and DVE-style motion sequences

- 16 x configurable COMP presets per bus

## Virtual Sets

Integrated LiveSet™ technology with 30+ live virtual sets and box effects included

## DataLink

Integrated DataLink™ technology enabling real-time, automated data input from internal and external sources, including webpages, spreadsheets, scoreboards, databases, RSS feeds, watch files, XML, CSV, ASCII and more

## Macros

Record, store, edit and automate commands and user-configured operation sequences

- Attach to control panel buttons, keyboard shortcuts, hotspots, MIDI and X-keys® buttons or GPI triggers
- Attach to internal events and state changes, including audio, media playback, tally and specific switcher actions
- Supports control via web-based interface

## Recording

32 x total video recording channels

- 8 x configurable M/E channels for HD or 2 x for UHD
- 8 x physical SDI inputs
- 4 x DDR's
- 2 x streaming encoders
- Support for growing file playback from DDR's
- Instant Replay capability on each input

- 32 x total configurable inputs

## Storage

4TB Media Storage (4 x 1 TB SSD in RAID 0)

- Quantity varies by format, resolution and file specification
- Supports recording to external storage via 7 USB 3.2 type A, and 1 USB 3.2 type C, 1 USB 2.0 2(Gen2, Type A)
- Supports shared storage integration and third-party partner solutions

## Grab

Grab full resolution, deinterlaced still images from external video sources and outputs

## Export

Export video and image files to social media, FTP, local or external volumes, and network servers, with optional transcoding

## Audio

16 channels of audio passthrough

Integrated multi-channel audio mixer with support for 8-channel audio, DSPs and 4x8x8 audio input routing

### Local Audio Input

- 8 x SDI embedded
- 1 x Balanced XLR stereo pair (Line)
- 3 x Balanced 1/4" stereo pairs (Line)

### Local Audio Output

- 8 x SDI Embedded
- 1 x Balanced XLR stereo pair
- 1 x Balanced 1/4" stereo pair
- 1 x Stereo 1/4" (phones)

### Network Audio

- Native support for network audio input and output via NDI®
- Embedded audio supported for all NDI® input and output video signals
- Integrated support<sup>5</sup> for Dante™ networking protocol from Audinate®
- Support for AES67 protocol via compatible WDM audio drivers<sup>6</sup>

<sup>5</sup> Requires Dante Virtual Soundcard license from Audinate (sold separately)

<sup>6</sup> Requires third-party virtual sound card license (sold separately)

## Supported Media File Formats

Import, store, and play back multimedia files, with optional transcoding, including:

- Video: AVI, DV, DVCPro, DVCProHD, FLV, F4V, H.263, H.264, MOV, MKV, MJPEG, MPEG, MP4, WMV, WebM, and more
- Image: PSD, PNG, TGA, BMP, JPEG, JPEG-XR, JPEG2000, EXR, RAW, TIF, WebP, and more
- Audio: AIFF, MP3, WAV, and more

## Monitoring

Support for up to 4 multiviewer displays with configurable workspaces and viewports. Support for 4K on 2 multiviewers while the other 2 multiviewers output in HD.

## Signal Monitoring

Integrated waveform and vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 709

## Processing

- Video: Floating Point YCbCr +A 4:4:4:4
- Audio: Floating Point, 96 kHz

## Throughput Latency

~1.0-1.5 frames

## A/V Standards

- UHD video conforms to SMPTE 2036 (UHDTV1 using Square Division Quad Split)
- 3G-SDI video conforms to SMPTE 424M (Level A)
- 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

## Tally

Support for hardware tally via HD15 GPI connector, network tally via NDI®, and Blackmagic Design® SDI tally standard

## Genlock

Genlock input supporting SD (Bi-level) or HD (Tri-level) reference signals

## GPI

Supports GPI signals via JLC Cooper Electronics eBox GPI interface

## MIDI

Support for standard MIDI protocol enabling third-party device control

## System Drive

250GB SSD

## NIC

- 1 x 10 GbE NIC
- 1 x 1 Gigabit NIC

## System Physical

3RU chassis with 650W redundant PSU and multi-tiered hardware and software fail-safe

- 19.0 x 5.25 x 19.57 in (48.3 x 13.34 x 49.7 cm) with rack ears attached
- 34 lbs (15 kg)

*Subject to change without notice.*

## Funkcje

## For Today's Productions and Tomorrow's Demands

Combining file-based integration, streaming output, SDI compatibility, IP flexibility, UHD capacity, enhanced I/O, and support for distributed workflows, NewTek TriCaster 2 Elite integrates into your current infrastructure, while priming your facility for the future.

## **Beyond Live Video Production**

Comprehensive, multi-channel recording configuration for capture, playback, and archive of production content across your ecosystem

Real-time, direct upload of clips, active recordings, and streams to social media, storage volumes, and Web-based destinations, with optional transcoding

Essential, multi-angle instant replay functionality enabling extended in-program control, live events coverage, and highlights production

Recording, converting, and packaging of media content including multi-cam acquisition to common non-linear editing and other systems for fluid, file-based workflows

Composite sophisticated static and animated graphics for recording as well as for live production

Manage the input and output of video in non-standard aspect ratios like 9:16 and square video, non-standard video frame rates, rotate and flip to produce content for any platform and destination

Fully compatible, high-capacity, high-performance network storage available with the addition of NewTek Remote Storage – Powered by SNS

## **Evolutionary Approach**

Modular architecture with limitless possibilities for configuration, customisation, and control

Native integration of NDI® enabling interoperability with systems and devices from practically any manufacturer over IP

Unrivalled, scalable capabilities: multi-source video processing, advanced audio, multimedia and visual effects, graphics integration, and multi-platform delivery output

Flawless real-time, multi-format processing and support for a variety of digital media requirements, including Ultra HD at 60fps

## **Limitless Possibilities**

Implement across existing network infrastructure, interconnecting compatible technologies through software within IP space

Link multiple locations over IP to create sophisticated multi-system, multi-site workflows

Enhance flexibility, resiliency, and resource allocation with the ability to launch instances on demand from any location on your network

Reduce facility requirements, operational expenses, maintenance demands, and energy usage

Align legacy and contemporary technologies across a simplified infrastructure to maximise resources and investments

Establish a production network in your control room or across facilities, connecting systems, users, and departments with the

capacity for distributed access

Pool production inputs, outputs, and media assets for universal access and interchange

## **No Boundaries**

Transition gradually or migrate immediately to IP-based production workflows with incredibly practical infrastructure and bandwidth requirements

Remove the physical and logistical barriers limiting your potential to expand, grow, and evolve

Make your video operations future ready with progressive technology independent of formats and resolutions

Redefine your productions, workflows, and business now and for years to come

## **Interconnected Production**

Connecting, communicating, and sharing video and audio across the network using innovative NDI® technology

Inputs, outputs, and media assets are readily available and accessible by any user in any location on the network

Enhance productions with live, high-quality video and audio calls using Live Call Connect functionality which integrates a range of the most popular video conferencing software applications.

Efficient operational methods to maintain quality and consistency with creative staff

Run shows using NewTek Live Story Creator production automation based on Microsoft Word® documents using teleprompter control with TriCaster 2 Elite mixing and effects together with LiveGraphics

Push button automation using NewTek LivePanel for creation of software-based custom control panels to operate TriCaster 2 Elite from a desktop or mobile device- anywhere on the network

## **Mix Effects**

Carve your own path of creativity across 8 mix effects buses, each intuitively supporting sub-mixing, layering, compositing, and live virtual set configuration. Between source rows and key layers, each M/E bus enables layering of up to 8 video elements, all with independent DVE controls. All M/E buses include separate processing which delivers colour correction, chroma and luma keying. Combined with video re-entry of each M/E on every M/E, and the ability to store and recall 9 variations of each bus configuration, you have unlimited creative potential for visual storytelling.

## **Animated Compositions**

Produce incredibly sophisticated compositions, DVE motion sequences, squeezebacks, and animated effects with a powerful full-motion composition engine integrated into every production bus. Supporting advanced configuration, positioning, keyframing, and transitions, the 'COMP' engine captures and stores any and every operation and action you perform into a versatile snapshot preset system, enabling you to size, move, and manipulate video with ease—and at will.

## **Video Layering**



Present your content in almost infinite ways and capitalise on branding and sponsorship opportunities, stacking layer after layer after layer of video and graphic elements to arrange your primary mix, sub-mixes, and other mix effects. And with full-time, full-motion confidence monitors for each background and overlay element integrated into the user interface, directors and operators are assured that the right visuals are displayed at the right time—every time.

## **Video Tools**

Act on ideas that span the entire spectrum of creative expression, pouring your imagination into sophisticated compositions and effects, or making subtle adjustments that have substantial impact. Customise even the most fundamental elements of your production with fully configurable colour correction tools, 3D object positioning, smooth-edge cropping, and optional borders. Combine your choice of foreground and background elements together with extensive key and fill support. And introduce countless creative possibilities to your toolbox with real-time motion tracking.

## **High-Quality Matte Generation**

Generate crisp, clean, layered effects with powerful LiveMatte™ real-time chromakeying technology built into every source channel and M/E bus. With independent key configuration, advanced settings, including luma key, and integrated waveform and vectorscope monitors, getting an exceptionally spectacular key for countless composite scenes and live virtual set applications takes nothing more than a green screen and standard lighting.

## **Virtual Sets**

Set the stage for your production, transforming any location into an elaborate virtual environment. With integrated LiveSet technology, you can composite live video sources into beautifully rendered scenes that can include multiple angles, virtual camera movements, real-time reflections, specular highlights, and animated lens flares. And by applying augmented reality effects, you can introduce even more stunning depth and dimensionality, embedding video overlays into the 3D virtual space, producing striking real-time visuals that blur the line between virtual and reality.

## **Ultra HD**

Present your audience with an immersive viewing experience defined by amazing clarity and incredible detail, producing programs, performances, events, and live sports in true UHD (Ultra High Definition) resolution. Supporting direct input and output of native 2160p video at up to 60 frames per second, as well as scalable production workflows via network integration with NewTek NC1 conversion modules, TriCaster 2 Elite offers incredible flexibility for UHD implementation. And unlike other products that promise UHD, you can switch, stream, and record UHD video without compromising the frame rate or the number of available inputs—meaning you have the capacity for 32 simultaneous, full-resolution UHD external video inputs to produce your program.

## **Scalable Media Functionality**

Up to 32 x simultaneous external IP video inputs via NDI®, resolution-independent, with support for key and fill, supporting any combination of compatible sources in resolutions up to UHD at frame rates up to 60fps (2160p 59.94)

Support for up to 32 simultaneous Pan-Tilt-Zoom (PTZ) robotic cameras

Up to 8 independent video mix outputs, or 2 in UHD with simultaneous delivery via IP and SDI with optional external NC1 I/O modules

Up to 48 x IP outputs via NDI (HD and SD sessions only)

8 x video mix outputs in resolutions up to 1080p at frame rates up to 60fps (1080p 59.94) or 2 x UHD video mix outputs at up to 60 frames per second (2160p 59.94) via 3G-SDI quad-link grouping

8 x direct IP source outputs via NDI translation of optionally connected SDI inputs or 2 x upconverted UHD mix outputs at up to 60 frames per second (2160p 59.94)

4 x direct IP source outputs via NDI translation of media players, with support for embedded alpha channel

15 x direct IP source outputs via NDI translation of media buffers, with support for embedded alpha channel

3x Multiviewer outputs (if 3 monitors are connected)

1x User Interface with dedicated multiviewer

1x Teleprompter output (LiveStory™ Creator)

8 x selectable IP outputs via internal NDI® matrix router

2 x resolution-independent streaming video outputs, independently configurable, with simultaneous stream archive. Support for SRT streaming has been enabled.

8 x M/E buses supporting video re-entry

1 x Mix/Effect channel per bus with support for up to 4 sources

4 x KEY layers per bus

9 x memory slots per bus

1 x PREVIZ configuration and preview bus

Up to 4 x multiviewer outputs supporting standard display resolutions, using any combination of available connections on customer-supplied hardware

32 x input keyers

16 switchable crosspoints for real-time, multi-screen and multi-feed production operations to mix and deliver 4 discrete produced outputs via SDI to downstream systems using an NC1 I/O module, plus mixing and sending 8 additional output signals over IP with a software-based 60 x 48 NDI® video router

## Multiviewers

Maintain a constant watch over the array of inputs, outputs, and assets that comprise your production with scalable multi-source monitoring. TriCaster 2 Elite provides multiviewer outputs to drive local displays, with configurable workspace layouts and viewports that permit directors and operators to customise the control environment to their preferences. Beyond centralising, organising, and observing your choice of video signals with tally, you can calibrate monitor colour characteristics and optionally display visuals such as audio VU meters, production clocks, and waveform and vectorscope for comprehensive management of your live operations.

## Multi-Format Processing

Standardise to a preferred signal workflow or adapt effortlessly to your particular infrastructure and available equipment inventory, freely intermixing formats, resolutions, and frame rates with robust multi-format video processing. With optional external modules for SDI I/O supporting resolutions up to 3G 1080p and an IP-based NDI® workflow independent of specific technical criteria, you can work with established formats and emerging standards interchangeably.

## **Playback and Graphics**

Load, cue, and roll file after file of multimedia to complement live action with multiple channels of integrated media playback. Supporting short-form and long-form video clips, images, graphics, animations, and audio tracks, the sheer number of media players at your fingertips provides endless creative opportunities from start to finish, including the ability to live edit compelling video sequences, dynamic image slideshows, and spectacular highlight sequences, complete with transitions and custom animated effects between assets.

## **Recording and Replay**

Configure and capture multiple channels of video and audio from your program to fuel post-production workflows, facilitate collaborative creative projects, and archive produced content and ISO camera feeds for future use. With support for 8x configurable M/E channels, 8x physical SDI inputs, and 32x total configurable inputs recording for distribution, plus flexible storage options, you can continue to get value from your content long after your live productions fade to black. Insert instant replays from multiple NDI or SDI input recordings with a single click instantly; or cue to play on demand instead. Replays include custom in/out transitions and speed control. Create basic highlight clips for instant playback and publishing with shortcut commands. (Some workflows may require addition of NewTek Remote Storage)

## **Streaming**

Stream live to your choice of new media platforms, including convenient presets for Facebook Live, Microsoft® Azure®, Twitch, YouTube™ Live, and more. With two independently configurable H.264 streaming encoders built into TriCaster 2 Elite, you can easily deliver platform-specific content to target audiences in resolutions up to UHD, while opening up new sponsorship and revenue opportunities. Support for SRT streaming has been enabled.

## **Video Conferencing Integration**

Conduct live video calls with Live Call Connect functionality from anywhere in the world, with the only large-scale production system to integrate a range of the most popular video conferencing software applications including Microsoft Skype™, Microsoft Teams™, Zoom Meetings™, GoToMeeting™, Discord™, and Tencent™. This capability enhances productions with high-quality video and audio, providing choices for you to present conversations, interviews, reports, and more—regardless of the caller's device.

## **Audio**

A masterfully produced video program is incomplete without a rich, layered audio experience. Drive your production sound with analog, digital, and network audio connectivity and a robust, multi-source audio mixer supporting 8 channels of audio for each input and output. With a full array of audio DSPs available to configure sound with impeccable precision, every mix will strike a pitch-perfect chord with your audience. For interfacing with external audio devices over IP, there is integrated support for Dante networking protocol from Audinate®, and AES67 networking protocol via compatible WDM audio drivers.

Requires Dante Virtual Soundcard license from Audinate (sold separately))

Requires third-party virtual sound card license (sold separately)

## **Future**

## Complete Production

Engineered with a purpose and built with a commitment to ensuring you have everything you need to create amazing productions, Vizrt live production systems provide the most comprehensive set of tools and capabilities for modern workflows and the most value for your investment of any video solution.

See why they are the most complete video production systems on the planet.

*Features and capabilities as described refer to TriCaster® functionality and are subject to change without notice. For more detailed information regarding features and capabilities for these and other Vizrt live production systems, please refer to the respective product User Guides available [here](#).*

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## The Latest Capabilities for Vizrt Live Production Systems

[Alpha Channel Outputs](#)

[Live Call Connect](#)

[Customized Workspace](#)

[Multi-Step Macros](#)

[Live Output Monitoring](#)

[SRT](#)

[Live Story Creator](#)

[LiveGraphics](#)

[LivePanel](#)

[Live Streaming & Publishing](#)

[Monitor Proc Amps](#)

[Multiview Scopes](#)

[Multiviewer Transport Controls](#)

[NDI® HX Camera Apps](#)

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[Unlimited NDI® Recording](#)

[Edge Feathering](#)

[NDI Virtual Input](#)

[NDI® KVM](#)

[IP Tally](#)

## Rejestracja Vizrt

**WAMM Video Solutions** posiada status **Platinum Partnera Vizrt**

Aby zarejestrować produkt firmy Vizrt skorzystaj z linku.

[Link do rejestracji produktów Vizrt](#)