

TriCaster Vizion

Visionary video production with unprecedented versatility

TriCaster® Vizion is the latest evolution of this renowned video mixing tool that has been used and trusted by broadcasters, sports networks and live event producers for decades. Offering the latest in IP connectivity, configurable SDI I/O, powerful switching, audio mixing and state of the art graphics, TriCaster Vizion is built for the future. Now with exciting AI features and industry leading graphics capabilities with TriCaster Graphics powered by Viz Flowics.

The future proofing isn't limited to features; TriCaster Vizion is available with a choice of 0, 8 or 16 SDI I/O configurations as well as in the cloud – equipping your network, team or enterprise for whatever the future may hold.

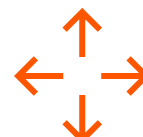
TriCaster Vizion AI/R



Broadcast-class AI and AR without the complexity. Real-time AI-powered keying and augmented reality graphics delivered as an optional subscription to TriCaster Vizion, making professional visual storytelling accessible to organizations of every size, from newsrooms to sports to corporate broadcast production.

Reliable Versatility

Available on-premise or in the cloud, Vizion puts the power firmly in the user's hands with a choice of 3 different I/O configurations to suit any production requirement and budget. Offering unmatched production versatility with up to 16 configurable 12G SDI input / outputs.



Production Protection



We care about your productions, and support is a fundamental part of the TriCaster Vizion solution including optional advanced hardware replacement. TriCaster Vizion comes with year of standard support which can be upgraded anytime.

Technical Specifications

Video Input	44 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	44 x IP inputs via NDI®, resolution-independent, with support for key and fill
SDI Video Input¹	12G/3G/HD SDI connections supporting video input in any combination of standard formats, resolutions, and frame rates² • 2160p 59.94, 50, 29.97, 25 • 1080p: 60, 59.94, 50, 30, 29.97, 25 • 1080i: 59.94, 50 • 720p: 59.94, 29.97, 25 ¹Up to 16 configurable ports depending on hardware version. These ports can be configured for input or output. Up to 6 ports support 12G signals. ²Available frame rates determined by session video standard (NTSC or PAL)
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	56 x IP outputs via NDI® (HD sessions only) • 8 x video mix outputs in resolutions up to 1080p at frame rates up to 60fps or 2 x UHD video mix outputs at up to 60 frames per second (2160p 59.94) • Up to 16 x direct IP source outputs via NDI® translation of local SDI inputs • 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). 4K support on 2x Multiviewer outputs while the 3rd outputs in HD • 1x User Interface with dedicated multiviewer • 1x teleprompter output (LiveStory™ Creator) • 8 x selectable IP outputs via internal NDI® matrix router
SDI Video Output	12G/3G/HD SDI connections, optionally configurable for: • 8 x independent 12G/3G/HD video mix outputs supporting standard NTSC and PAL formats, resolutions, and frame rates³ ³Available frame rates determined by session video standard (NTSC or PAL)
Audio	44 channel integrated audio mixer with support for 8-channel audio, DSPs and 4x8x8 audio input routingSSD
Local Audio Input	• 1 x balanced stereo pair in via 1/4" • 1 x Mic input via 1/4" • Up to 16 x SDI embedded
Local Audio Output	• 1 x balanced stereo pair out via 1/4" • 1 x Headphone out via 1/4" • Up to 8 x SDI Embedded
Network Audio	• Native support for network audio input and output via NDI® • Embedded audio supported for all NDI® input and output video signals • Integrated support⁵ for Dante™ networking protocol from Audinate® • Support for AES67 protocol via compatible WDM audio drivers⁶ ⁵Requires Dante Virtual Soundcard license from Audinate (sold separately) ⁶Requires third-party virtual sound card license (sold separately)
Media	7 x media players • 4 x DDR • 1 x Sound • 2 x GFX 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 • 44 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	• 8 x configurable M/E channels • Up to 16 x physical SDI inputs • 4 x DDR's • 3 x streaming encoders • Support for growing file playback from DDR's • Instant Replay capability on each input • 44 x total configurable inputs
Storage	4 TB SSD internal storage • 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
PTZ	Support for up to 44 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 Teams™, Zoom Meetings™, and web browser using the Live Call Connect feature
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
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. 4 outputs are via Display port connection
Signal Monitoring	Integrated waveform and vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 709
Processing	Video: YCbCr + Alpha color space, using 4:2:2:4 Audio: Floating Point, 96 kHz

A/V Standards	• 12G-SDI video conforms to SMPTE ST 2082 • 3G-SDI video conforms to SMPTE 424M (Level A) • HD-SDI video conforms to SMPTE 292M
Tally	Network tally via NDI®, TSL 5 support
Genlock	Genlock input per I/O board 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
NIC	• 1 x 10 GbE • 1 x 2.5 GbE • 1 x 1 GbE
System Physical	2RU chassis with redundant 550W PSU • 19.0 x 3.5 x 19.57 in (48.3 x 8.9 x 49.7 cm) • 32 pounds/14.5 kg in packaging
Operating Conditions	Temperature Range • Operating: 5° to 27°C (40° to 80°F) • Non-Operating: -40° to 60°C (-40° to 140°F) Humidity Range • Operating: 8% to 85% relative humidity, non-condensing, 35° C maximum wet bulb • Non-operating: 8% to 90% relative humidity, non-condensing, 35° C maximum wet bulb
Viz Flowics Basic Plan	4 Users 5GB Asset Library 1 Output 1 Team Graphics Editor • Timeline-based Animations • Text Crawler • Assets Library • Custom Fonts • 140 ready-to-use free graphics Data Integrations • Google Sheets Data Provider • RSS / Atom Data Provider • JSON REST Connector • JSON WebSocket Connector • Data Bridge Security – MFA Control API 24/7 Live Chat & Knowledge Base Support Viewer Engagement – X (Twitter) & Instagram Search Viz Flowics runs in cloud, rendered locally via TriCaster Live Link.

Specifications and features are subject to change without notice. Vizrt reserves the right to update technical specifications, features, and product details at any time at its sole discretion