

LIVE MULTI-CAMERA VIDEO PRODUCTION AND STREAMING



NewTek

3D STORM PRODUCTS CATALOG 2015



3D STORM

NEWTEK OFFICIAL DISTRIBUTOR

"Our collaboration with NewTek dates back to 1989. That's a quarter of a century of sharing experiences made all the better by constantly listening to users and an undiminished enthusiasm for the spirit of innovation from the teams of engineers. Today, 3D Storm is the leading international distributor of NewTek products and the leading support and technical maintenance center outside the United States. With our exclusive Service Plus offer, 3D Storm offers extended support to users, at no additional cost, so they can use their equipment with complete peace of mind. I am delighted to introduce you to the 3D Storm 2015 edition of the NewTek range."

Franck Lafage
Managing Director - 3D Storm



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At a time when broadcast channels are multiplying, NewTek offers the tools to produce more audiovisual content, more quickly, more easily and at a lower cost. We want to make sure you can take advantage of all the communication media available to develop your audience, your brand and your market faster than ever.

Our guiding principle is to ensure that you move as quickly as possible from the communication idea to it being broadcast, from capturing events to making them available on every screen. Tell us what you have in mind and we will do our best to develop the tools to take your messages anywhere and broadcast them everywhere!

Our 2015 range includes the best there is on the market in terms of combining the worlds of video and IT. Never have these two worlds been so naturally united to help you overcome all compatibility issues. It is also marked by the partnership with Microsoft™ as embodied in the new Talkshow system.

We wish you a pleasant time exploring this catalog and we remain at your disposal to help you simplify your projects!

TalkShow™

Live Skype interviews that look great—and sound amazing



Add more on the ground expertise and analysis to your productions. Avoid multiplying transmission budgets and heavy equipment for your reporting teams or losing time to synchronize video recordings with poor quality telephone recordings.

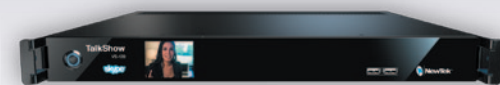
The **TalkShow** rack from NewTek is designed to integrate Skype video communications into your broadcast production environment as directly and simply as possible. It delivers the signal from the caller in broadcast-ready HD with SDI-embedded audio. TalkShow is a compact 1U rack with Skype TX software from Microsoft, an HD-SDI output for direct connection to the final production, an HD-SDI input to send a return image back to the caller, a genlock input for perfect switching, and several video and audio correction tools to ensure the best rendering possible.

TalkShow allows you to control the video and sound quality of calls with the usual professional broadcast production tools. Skype video calls are treated like any other audio/video source in the studio. The only difference is that TalkShow allows you to instantly reach a panel of more than 300 million experts or potential witnesses!



At a glance:

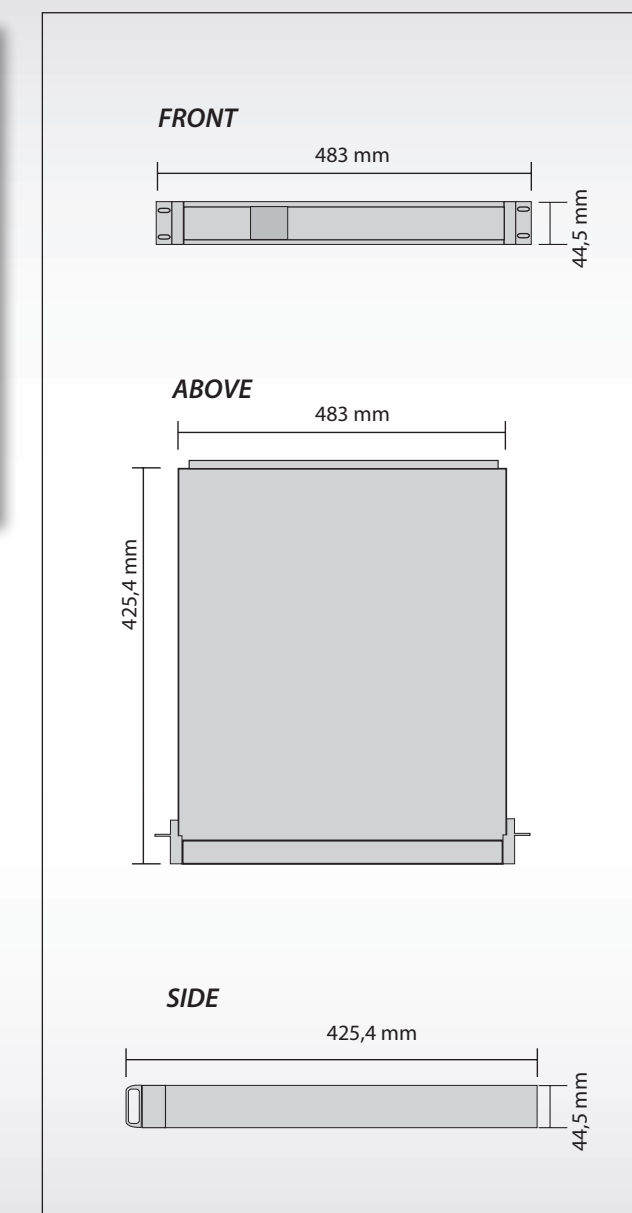
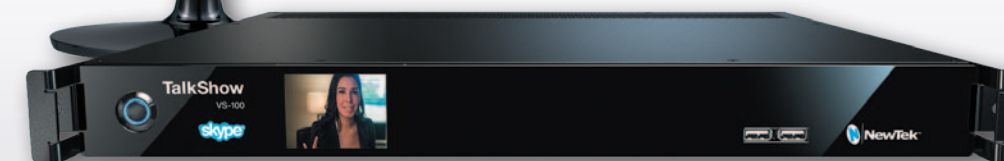
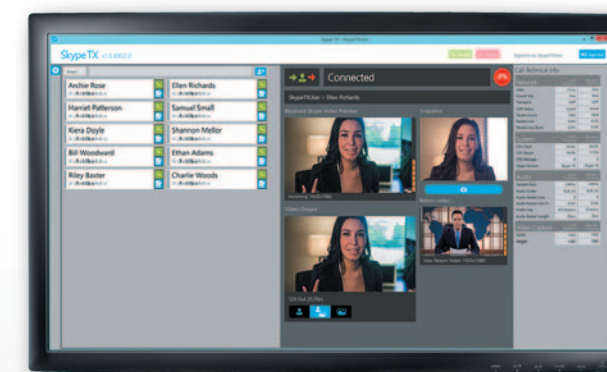
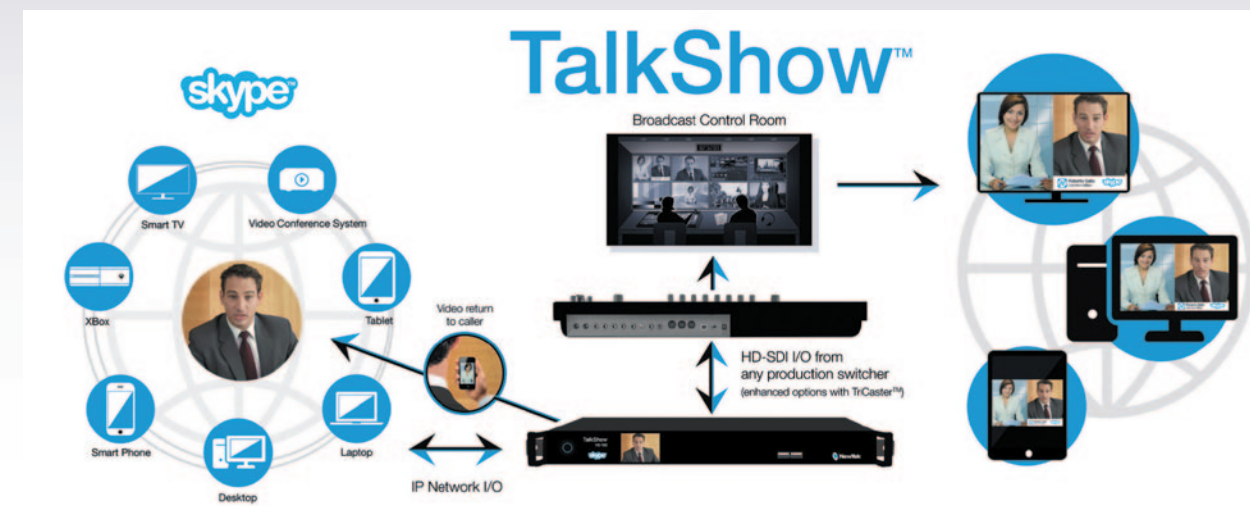
- ✓ **Direct access to all Skype users**
More than 300 million people already registered can connect directly to your TalkShow with their standard Skype license from all supported devices. For the other earthlings: they just have to sign up!
- ✓ **Transforms a standard Skype call into a ready to broadcast video source**
With automatic aspect ratio conversion and professional audio processing.
- ✓ **A "Clean" signal whatever the circumstances**
Unlike the Skype application for the general public, Skype TX eliminates banners, sound alerts and advertising messages from video and audio streams.
- ✓ **Compact 1U rack**
Its compact size allows you to use several Talkshow racks to manage several simultaneous calls through a centralized management application.
- ✓ **Optimized audio management**
With built-in parametric equalizer and compressor/limiter to maintain consistent levels and prevent saturation between calls and SDI embedded audio.
- ✓ **Video production tools**
The studio operator has automatic color correction and a real time signal processor to improve the quality of video calls and adapt them to different shooting conditions.
- ✓ **Built-in quality monitoring**
Automatic switching to a customizable still image in the event of unexpected loss of bandwidth.



TalkShow™ Technical Specifications

Video Input	1 x HD-SDI with embedded audio for program signal playback to caller
Video Output	1 x HD-SDI with embedded audio
Audio Input & Output	1 x embedded SDI audio, 2 x Balanced XLR (Line)
AirSend Networking	Integrated NewTek AirSend technology enabling network transmission of A/V input and output signals between TalkShow and other supported systems, including TriCaster, 3Play and select third-party partner solutions
Dante Audio Networking	Integrated Dante audio support, enabling TalkShow to interface with other audio devices utilizing the Dante networking protocol from Audinate
Call Recording	Supports full-bandwidth recording of call video and audio (optionally including return audio on separate channels) to external USB 3.0 or SAN storage
Video Effect Controls	Fully configurable color correction settings for incoming and outgoing video signals, including white balance, proc amp controls and auto color
Audio Effect Controls	Fully configurable settings for incoming and outgoing audio signals, including gain control, seven-band equalizer and compressor/limiter
Talk Back	Supports direct, off-air communication between operator and remote caller via headset
Call Management	<ul style="list-style-type: none"> • Direct mouse and keyboard USB interface required for Skype TX call management in single-unit installation (single-caller) • Supports Skype TX call management over local network via Skype TX Control application in multi-unit installation (multi-caller)
Local Monitoring	<ul style="list-style-type: none"> • DVI and HDMI monitor ports for connecting external user interface display • Stereo 1/4" phone jack for local audio monitoring • Front-mounted RGB video preview display with tally support • Full-motion input and output video previews within user interface • Audio VU metering configurable for dBFS, dBU and dBVU
Watermark	Integrated support for displaying Skype logo watermark on output
Tally	<ul style="list-style-type: none"> • Supports hardware tally via HD15 GPI connector or network tally via NewTek AirSend • Optionally display customizable tally overlay on return signal
GPI	HD15 GPI connector
Reference	<ul style="list-style-type: none"> • Genlock input supporting SD (Bi-level) or HD (Tri-level) reference signals • +4dBu audio reference level
Software	Windows Embedded 8.1, Skype TX Client software, and TalkShow control software
Technical Spec.	i7 Quad-Core, Ram 8Gb, Intel HD4600 GPU, 120Gb internal SSD
Processing	Video: 4:4:4:4, 32-bit Floating Point Audio: 4 channels, 96 kHz, 32-bit Floating Point
Network	Dual gigabit Ethernet NIC supporting Skype TX call transmission, AirSend signals to and from supported systems, Dante audio networking, and local network traffic
Fail-Safe	<ul style="list-style-type: none"> • Multi-tiered fail-safe system • Automatic failover to audio transmission with caller snapshot when bandwidth falls below operator-defined preset value • Comprehensive system restore operation
System Physical	1RU Rack Mount with 180W power supply (110-220V external; 12V internal) • 48.3 x 4.5 x 42.5 cm with rack ears attached • 6.4 kg

Subject to change without notice.



TriCaster™

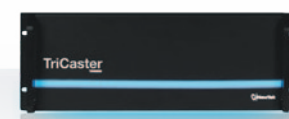
A production system for all live broadcasts

The ergonomics and reliability of TriCasters are proven daily in broadcasts of all sizes, from national and local chains to Web TV, in the largest stadiums and the farthest corners of the world, in lecture halls and conference rooms, convention halls, concert halls, emergency rooms etc.

The selection available in the **TriCaster** range offers solutions sized to suit every type of installation and production. For mobile or studio productions, the all-in-one TriCaster concept offers you immediate time savings as all components are built-in and preset: mixer, recorders, encoders, character generators, VT player and effects generators!

The serious stuff begins as soon as the cameras are connected!

The user interface and ease of use are identical for all models in the range so choose the one that suits the scale of your productions.



TriCaster™ 8000

*8 HD/SD SDI and analog camera inputs.
For its superior animated graphics capacity, can be integrated in a redundant environment.*



TriCaster™ 860

*8 HD/SD SDI and analog camera inputs.
For more flexibility and room for maneuver.*



TriCaster™ 460

*4 HD/SD SDI and analog camera inputs.
For versatile formats, can be integrated in all environments.*



TriCaster™ 410

*4 HD/SD SDI camera inputs.
Compact, for completely autonomous productions.*



TriCaster™ Mini

*4 HDMI camera inputs.
Full broadcasting system fits in cabin baggage.*



TriCaster™

Versatile and ergonomic

Versatility is everywhere in the TriCaster architecture, in the universal source management, the native support for multiple codecs, the number of built-in tools and the different ways they can be used.

Multi-source: TriCaster are the first production systems to mix all digital and analog SD and HD video resolutions in real time with IT flows from encoders and IP servers, and content from computers, tablets or smartphones through network links or wireless. All done directly without adding converters, or the need to synchronize sources. Many protocols, including Apple™ AirPlay® are supported for simulcasts, PowerPoint®, Keynote® type presentations, Web pages, Skype video calls and IP camera streaming.

Multi format players: a large number of file formats can be read in real time by the built-in players in TriCasters. Real playlists which enable you to play videos, ads and animated graphics. They use source switching to avoid any risk of black screen. The players support loop and slideshow modes to liven up screens through the auxiliary outputs.

Camera control: TriCaster can control as many robotic cameras as there are camera inputs available, with PTZ live control, 8 frame presets and zoom, focus and iris adjustment.

Multiple work stations: Thanks to the various views and interfaces available, a TriCaster production system can be used simultaneously by several operators: director, live titling, VCR and slow motion, special effects and sound operators. All models feature a customizable multi-view output and 4 other outputs providing dedicated monitoring for each operator. This modularity is increased by the presence of a powerful macro-command system, allowing you to group operations depending on the importance of the event.

Versatility is room to maneuver that means you can cope calmly with unexpected events during live broadcasts.

All out broadcasting

The most impressive advantage of TriCasters is without doubt the simplicity with which they support the specific features of each broadcast media: video broadcast, video projection, internet, local networks and social networks.

TriCaster adapts each source and all content to respect the features of every media and exploits all their advantages. It frees you from conversion or compatibility issues and eliminates rack interfaces from your configurations.

Compatible productions: TriCaster does not just broadcast everything everywhere. It offers tools compatible with every media, while harmonizing their use. A key moment selected from the recording can be used not only for live rebroadcasting, with a slow motion option available, but also for promotion on Facebook™ or YouTube™ with the option to enter a commentary before downloading. The features of internal routing to the various TriCaster outputs and the flexibility of the M/E buses allow for multiple adaptations such as:

- ✓ Managing different animated graphics for live streaming from a simultaneous production for TNT or video projection.
- ✓ Supplying monitors on set from autonomous playlists.
- ✓ Separating conference media broadcast from video production.



TriCaster™

Isocorder® Technology

NewTek has given the TriCaster range the most powerful digital recording system of the moment. This means all TriCasters have as many HD recording channels as there are camera inputs. That means 4 channels on one 2U rack mount, and up to 8 channels on a single 4U rack mount. Its features outstrip those of many dedicated recording servers.

Customized redundancy: each source, Program or Auxiliary output on TriCasters can be selected in a recording channel. With each drive supporting two simultaneous recordings operators can freely decide to double up recordings from important sources on two different hard drives. More flexible than a fixed RAID configuration. IsoCorder supports the direct recording of sources on centralized storage servers (SAN) from several recommended manufacturers such as: <http://www.newtek.com/solutions/newtek-developer-network/developer-solutions-category?category=10>*

Multimedia codecs: a choice of codecs channel by channel including the most popular on the market: QuickTime® (XDCam HD compatible) with 4:2:2 or 4:2:0 sampling, MPEG-2 (Mainconcept High or normal Profile), AVI (SpeedHQ), H264 (high quality or compression). The same source can be recorded several times simultaneously to be available immediately in different formats. IsoCorder supports all TriCaster resolutions up to 1080p.

Simultaneous media recording and playback: The files being captured can be placed in the DDR playlists as well as in the publication list. During production, they can therefore be read and adjusted while recording is in progress to be exported to FTP or networked disks, or even published on social networks at the same time as production.

Frame synchronization: IsoCorder® allows you to record each camera simultaneously with triggered frame synchronization so the files can be used later in multi-camera editing. Synchronized recordings can be started manually, by MIDI command or GPI option using LiveControl Box™ and by Crestron or AMX type controller...



TriCaster™ 8000

Making live broadcasting secure

TriCaster 8000 has an exclusive full redundancy mode which can be used in live environments looking for zero defects. A second unit connected by Ethernet network is immediately recognized and automatically duplicates the work environment of the master production system. All actions are reported in real time to ensure that you carry on working in the event of a malfunction. TriCaster 8000 controls different video routers to extend its input/output capacities and can make use of GPI to automate processes and make them secure.

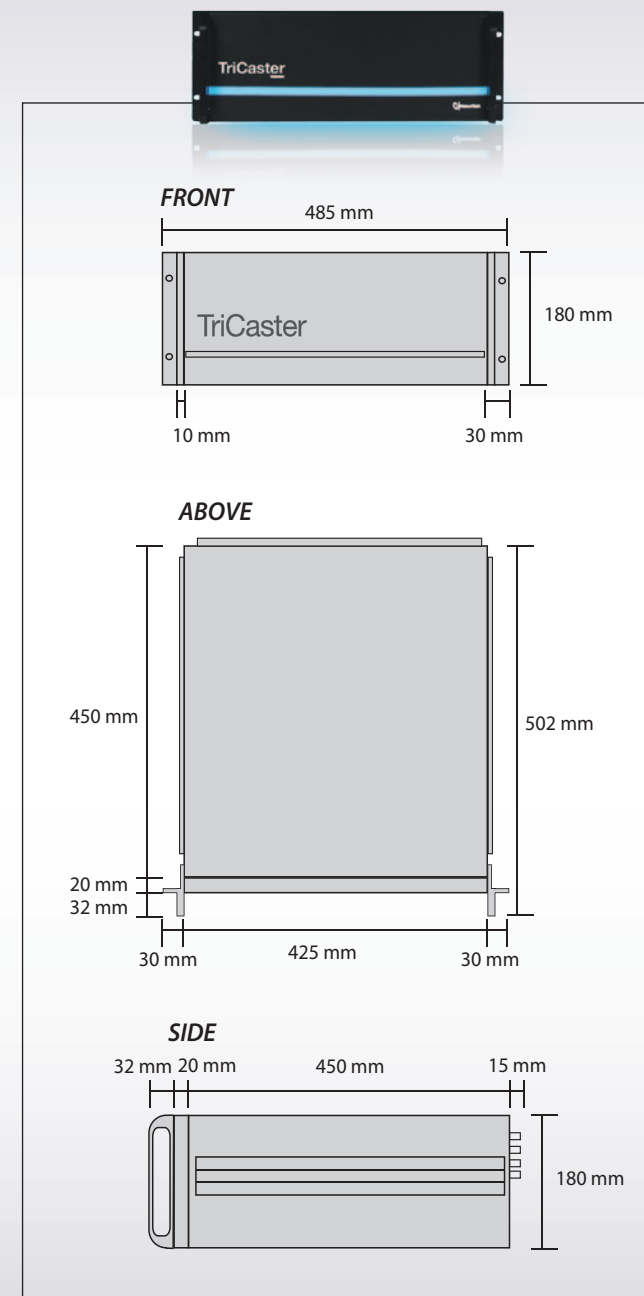
Expanded powerful effects engine.

TriCaster 8000 M/E capacity is increased tenfold with 4 compositing overlays and 4 DSK channels per M/E bus. In addition, each full M/E bus can be used in overlays from another M/E, offering a capacity for animated graphics never before achieved on a mixer.

TriCaster 8000 has an in-built real time video tracker to automatically detect an object of solid color in a scene, to texture it using any source in the production system and to link other sources to the movements of the object.



Monitor not included.



Technical Specifications

Switcher Channels

24 - 10 external, 6 internal, 8 M/E buses • 2 independant or synchronized mix buses • 8 ME with re-entry • 4 DSK + 4 DSK per ME • Video tracking in real time

Router Support

Compatible external video routers include brands supporting Grass Valley® Native Protocol, AJA® KUMO and Blackmagic Design® Video Hub

Video Input

8 x HD-SDI, HD Component, SD-SDI, SD Component, Y/C or Composite connections - 1x Genlock input

Audio Inputs

8 SDI Embedded - 8 AES3/EBU - 8 x 2 Balanced XLR (Mic/Line) - Phantom Power Support

Video Output

Configurable for up to 14 output connections, with support for key output and per-connection signal settings
 • 3 x SDI • 3 x Analog (configurable for Component or Y/C + Composite) • 2 x HDMI output • 1 display port HD15
 • Network output for live streaming • A/V output to network-connected TriCaster over local network

Audio Outputs

3 SDI Embedded - 2 AES3/EBU - 4 Balanced XLR - 4 Balanced XLR (AUX) - 1 Stereo 1/4" (phones)

Media Players

5 integrated digital media sources for video, graphics and sounds (2 DDRs, 2 GFX and Sound) - 10 animation buffers (Clip Store) - 5 still & title buffers (Frame Store)

Recording

Multi-track, multi-format recording of up to 8 simultaneous channels via IsoCorder™ technology - Native recording in up to 1080p with timecode - Encoding format selectable from: 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) - Freely choose to add recordings to Publish queue and DDR destinations - 2 x USB3 ports for recording to external storage

Recording Capacity

1 x 3TB internal drive, 3 x removable 2TB media drives accommodating a total of ~220 hours capacity expandable using additional supported storage, USB3 removable drives

Redundancy

Redundant Power supply - Synchronized control supported between 2 TriCaster 8000

System Physical

4U Rack Mount, 21 kg

In depth features on pages 26 and 27



Subject to change without notice.

TriCaster™ 860

The flexible choice

With its 24 channels, including 8 SD/HD digital or analog camera inputs, TriCaster 860 responds to many location scenarios. Ideal for addressing multiple markets without additional equipment.

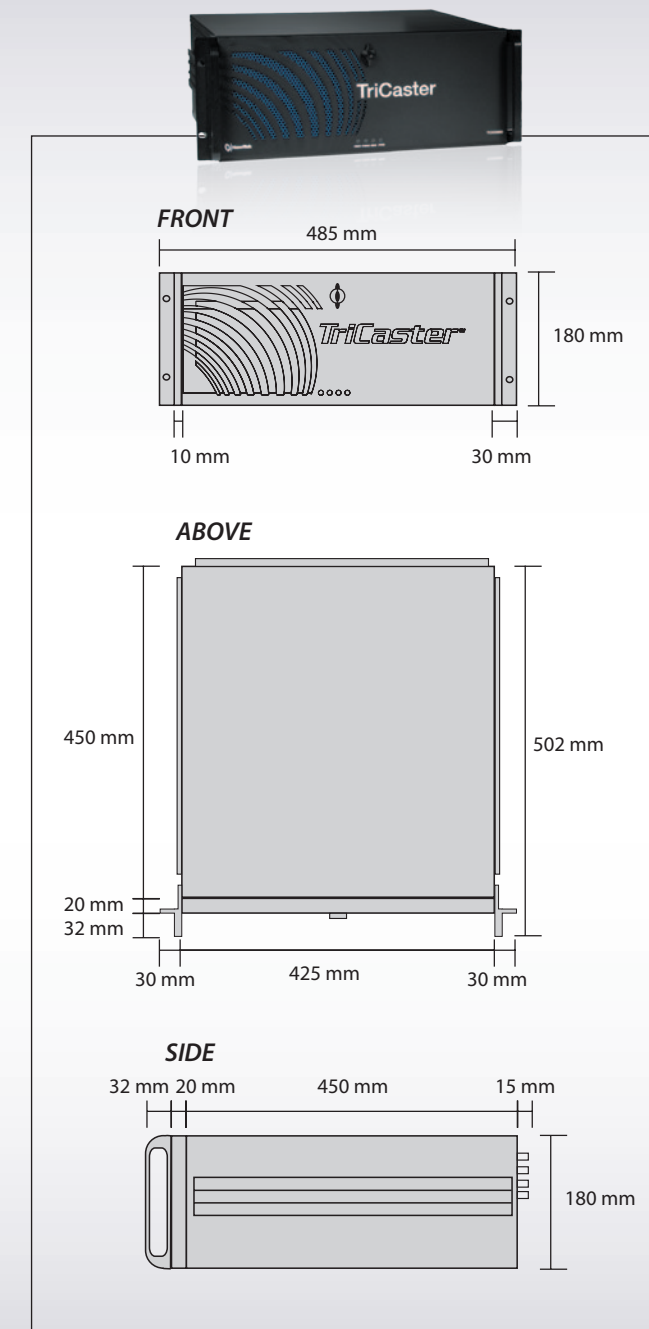
Robust architecture

Its 4U case hosts a redundant power supply unit and up to 4 removable hard drives can be added to the front for the most intensive broadcasts.

TriCaster 860 built-in solid digital audio architecture with SDI embedded and AES/EBU connectivity also supports mixing with analog sources.



Optional control surface sold separately - Monitor not included.



Technical Specifications

Switcher Channels

24 - 10 external, 6 internal, 8 M/E buses - 2 independent or synchronized mix buses - 8 ME with re-entry - 2 DSK + 1 DSK per ME

Video Input

8 x HD-SDI, HD Component, SD-SDI, SD Component, Y/C or Composite connections - 1x Genlock input

Audio Inputs

8 SDI Embedded - 8 AES3/EBU - 8 x 2 Balanced XLR (Mic/Line) - Phantom Power Support

Video Output

Configurable for up to 14 output connections, with support for key output and per-connection signal settings
 • 3 x SDI • 3 x Analog (configurable for Component or Y/C + Composite) • 2 x HDMI output • 1 display port HD15 • Network output for live streaming • A/V output to network-connected TriCaster over local network

Audio Outputs

3 SDI Embedded - 2 AES3/EBU - 4 Balanced XLR - 4 Balanced XLR (AUX) - 1 Stereo 1/4" (phones)

Media

5 integrated digital media sources for video, graphics and sounds (2 DDRs, 2 GFX and Sound) - 5 animation buffers (Clip Store) - 10 still & title buffers (Frame Store)

Recording

Multi-track, multi-format recording of up to 8 simultaneous channels via IsoCorder™ technology - Native recording in up to 1080p with timecode

Recording Capacity

1 x 3TB internal drive accommodating ~70 hours 1080i
 • 4 trayless SATA III removable drive bays
 • expandable using USB3 removable drive

Redundancy

Redundant Power Supply

System Physical

4U Rack Mount, 20 kg

In depth features on pages 26 and 27



Subject to change without notice.

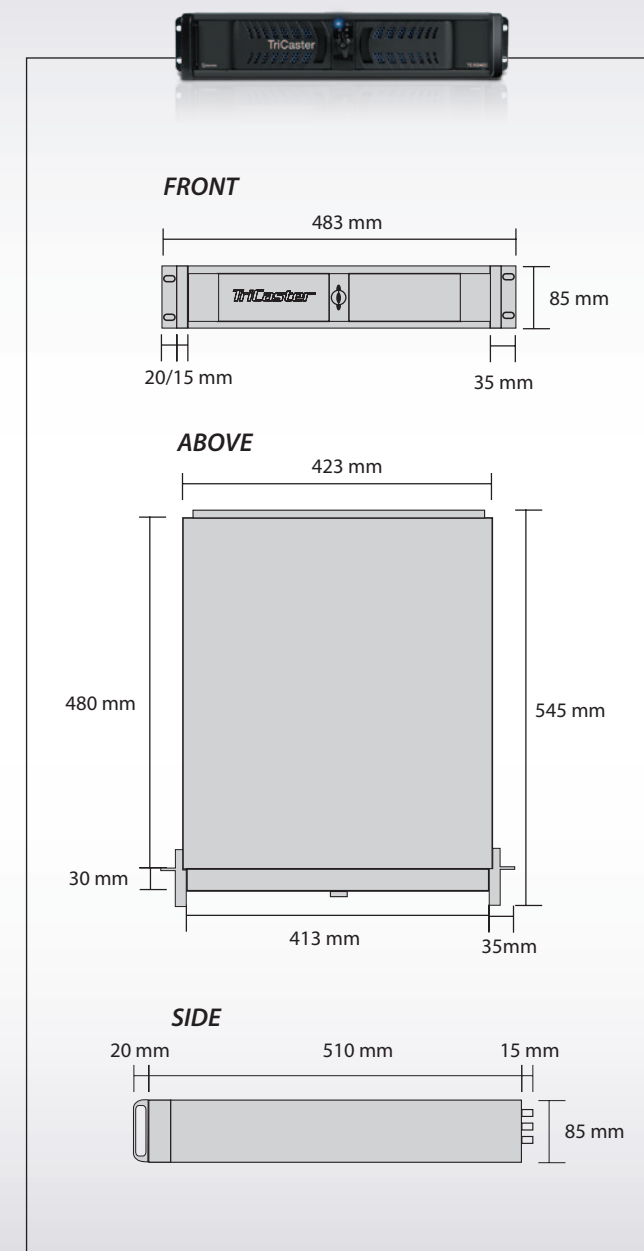
TriCaster™ 460

The go anywhere model!

As comfortable with mobile independent productions as staged productions. TriCaster 460 is perfectly sized to cover all your production needs with 2 to 4 cameras. Its 2U frame works wonders to produce and broadcast quickly and well.

Analog/Digital transition

In many areas, being able to connect sources or broadcast in analog remains valuable for bringing flexibility to daily life. TriCaster 460 delivers this comfort with no restrictions and without using converters that can degrade the signal or add processing time. With its M/E features TriCaster allows you to adapt formats, resolutions and 4:3/16:9 aspect ratios within the same production.



Technical Specifications

Switcher Channels

15 – 6 external, 5 internal, 4 M/E buses
 2 independant or synchronized mix buses
 4 ME channels
 2 DSK + 1 DSK per ME

Video Input

4 x HD-SDI, HD Component, SD-SDI, SD Component, Y/C or Composite connections - 1x Genlock input

Audio Inputs

4 SDI Embedded - 3 x 2 Balanced 1/4" (Mic/Line) - 1 x 2 Balanced XLR (Mic/Line) - Phantom Power Support

Video Output

Configurable for up to 11 output connections, with support for key output and per-connection signal settings

- 2 x SDI
- 2 x Analog (configurable for Component or Y/C + Composite)
- 2 x HDMI output
- 1 x Display Ports HD15
- Network output for live streaming
- A/V output to network-connected TriCaster over local network

Audio Outputs

2 SDI Embedded - 1 x 2 Balanced XLR - 1 x 2 Balanced 1/4" (AUX) - 1 Stereo 1/4" (phones)

Media

integrated digital media sources for video, graphics and sounds (2 DDRs, 1 GFX and Sound)
 5 animation buffers (Clip Store) - 10 still & title buffers (Frame Store)

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

1 x 3TB internal drive accommodating ~70 hours 1080i
 Expandable using additional supported storage, USB3 removable drives

System Physical

2U Rack Mount, 11.8 kg

In depth features on pages 26 and 27



Subject to change without notice.

Optional control surface sold separately - Monitor not included.

TriCaster™ 410

The price is small but not the list of features!

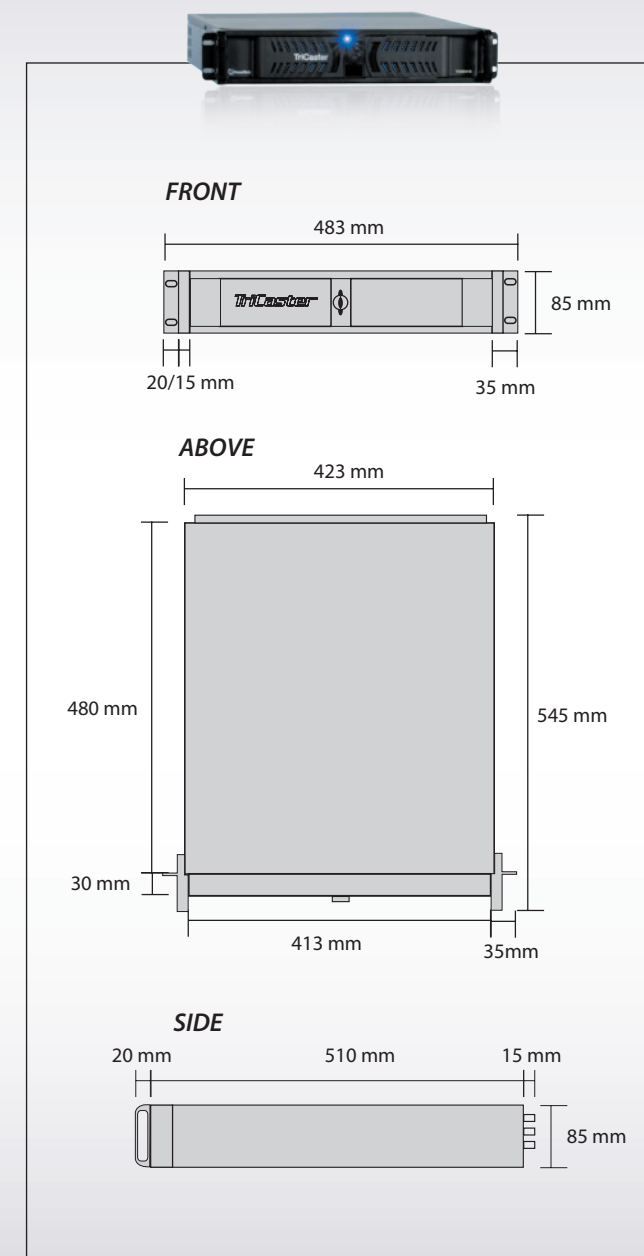
TriCaster 410 is unbeatable in terms of budget for fully digital independent production with 4 cameras. With IsoCorder® technology the power and flexibility of the 4 HD recorders guarantee the investment by themselves!

A professional production environment

TriCaster 410 benefits from the same architecture as all the models in the range. It gives you the quality and stability needed to produce in good conditions and comply with the specifications of your customers.



Optional control surface sold separately - Monitor not included.



Technical Specifications

Switcher Channels

- 15 – 6 external, 5 internal, 4 M/E buses
- 2 independant or synchronized mix buses
- 4 ME channels
- 2 DSK + 1 DSK per ME

Video Input

- 4x SDI SD/HD

Audio Inputs

- 4 SDI Embedded - 1 x 2 Balanced XLR (Mic/Line) - 1 x 2 Balanced 1/4" (Mic/Line)

Video Output

Configurable for up to 7 output connections, with support for key output and per-connection signal settings

- 2 x SDI
- 2 x HDMI output
- 2 x Display Ports HD15
- Network output for live streaming
- A/V output to network-connected TriCaster over local network

Audio Outputs

- 2 SDI Embedded - 1 x 2 Balanced XLR - 1 x 2 Balanced 1/4" (AUX) - 1 Stereo 1/4" (phones)

Media

- 4 integrated digital media sources for video, graphics and sounds (2 DDRs, 1 GFX and Sound)
- 15 still & title buffers (Frame Store)
- 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

- 1 x 3TB internal drive accommodating ~70 hours 1080i
- Expandable using USB3 ports

System Physical

- 2U Rack Mount, 11,8 kg

In depth features on pages 26 and 27



Subject to change without notice.

TriCaster™ Mini

Make your ordinary presentations, extraordinary



Video is the inescapable modern media for your professional development. With TriCaster Mini it doesn't have to be your second job anymore! You can add 2, 3 or 4 cameras to your presentations and broadcast your program live on the Web as simply as connecting your camcorder to your TV. As Mini and simple to use as it may be, TriCaster Mini delivers all the power, the ultra-professional rendering quality and the performance of the other TriCasters.

Two models:

TriCaster HD-4

- 1 internal hard disk drive with a capacity of approximately 15hrs of video in HD.

TriCaster HD-4i

- 2 internal hard disk drives with a capacity of approximately 30hrs of video in HD.
- Built-in 7-inch screen for broadcast monitoring.



Within everyone's reach:

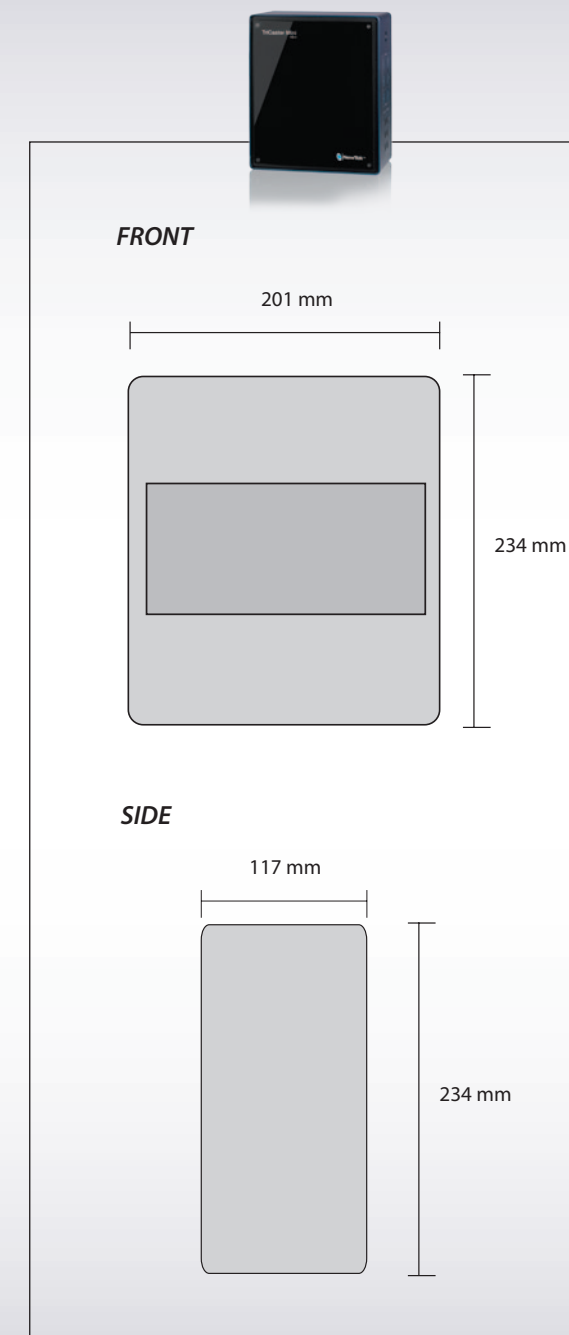
- ✓ Use your everyday devices: camcorders, hybrid cameras and mini-cameras.
- ✓ Let yourself be guided by the intuitive interface when you start off and progress naturally, whatever your initial level.

Simple to set up:

- ✓ No software installation needed and no configuration requiring specific technical skills.
- ✓ Connect TriCaster Mini in a network with computers, tablets or smartphones to integrate presentations directly and share screens.
- ✓ Stream live on the internet, record all your sources simultaneously and publish extracts simultaneously in real time on Facebook, Twitter and YouTube.
- ✓ Start broadcasting almost as soon as you've taken it out of the box!

It can go everywhere with you:

- ✓ Travel light with the smallest of the TriCasters.
- ✓ So compact that it can be set up on the smallest table corner.
- ✓ Lightweight and portable to capture and broadcast all your travels.



Technical Specifications

Switcher Channels

16 – 6 external, 6 internal, 4 M/E buses
 2 independent or synchronized mix buses
 4 ME channels
 2 DSK + 1 DSK per ME

Video Input

4 simultaneous live video sources over HDMI, with per-input auto-detection of format, resolution, and frame rate
 Included cable retention bracket may double as handle

Audio Inputs

4 HDMI Embedded - 1/4" Mono (Mic) - 1 x 2 Stereo 1/4" (Line)

Video Output

Configurable for up to 6 output connections with support for key output and per-connection signal settings

- 2 x HDMI (primary)
- 1 x DVI and 1 x HDMI (video only) display ports for additional displays or projectors
- Network output for live streaming
- A/V output to network-connected TriCaster over local network

Audio Outputs

2 HDMI Embedded - 1 x 2 Stereo 1/4" (Line) - 1/4" Stereo (phones)

Media

5 integrated digital media sources for video, graphics and sounds (2 DDRs, 2 GFX and Sound)
 15 still & title buffers

Connectivity

Built-In WiFi & Bluetooth
 Supports wireless connection to local network for streaming, publishing and networking with external devices
 Support for keyboard and mouse using wireless Bluetooth technology

System Physical

11.7 x 23.4 x 20.1 cm, 4.1 kg (9 lbs)

In depth features on pages 26 and 27

Subject to change without notice.

Control surfaces

More precise and more comfortable in times of intensive use. All the consoles incorporate backlit keys for optimum operation regardless of the light level. Grouped color codes make it easy to find the various buses and the status of delegate buttons. The multi-axis joystick gives dynamic control over robotic cameras and size, position, crop and perspective adjustments for the sources in the DVE channels. Macro mode allows you to assign customizable macro-command triggers to the control surfaces.



TriCaster™ 8000 CS
For TriCaster 8000.



TriCaster™ 860 CS
For TriCaster 860.



TriCaster™ Mini CS
For TriCaster Mini and all the other models
The MiniCS offers a compact alternative when you're working in confined spaces.

TriCaster™ 460 CS
for TriCaster 460, 410
and TriCaster Mini

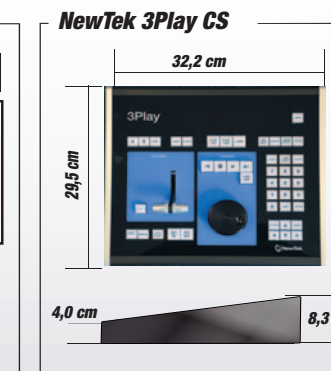
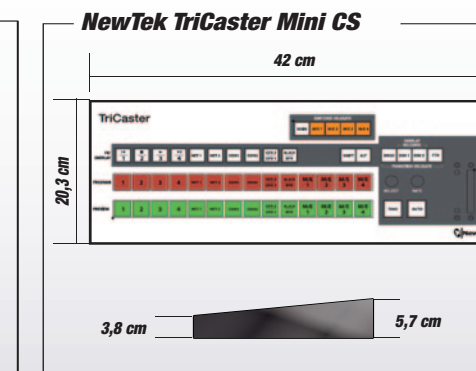
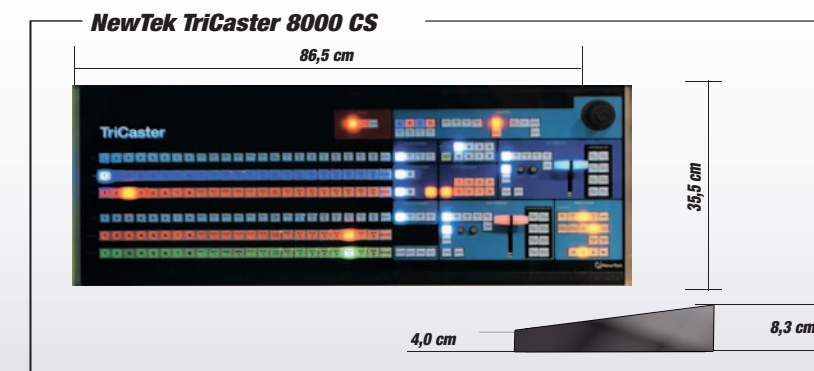
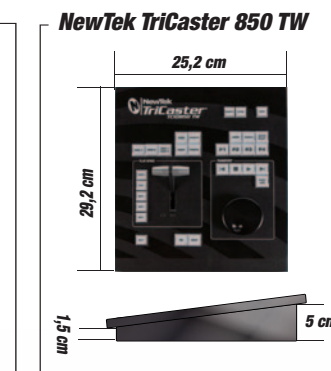
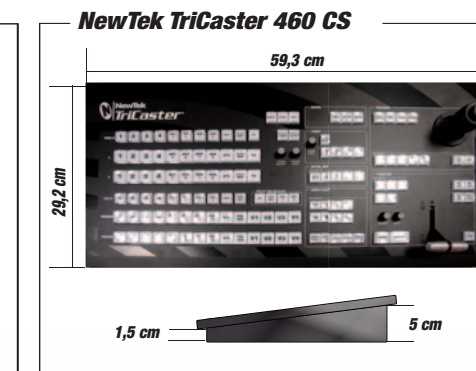
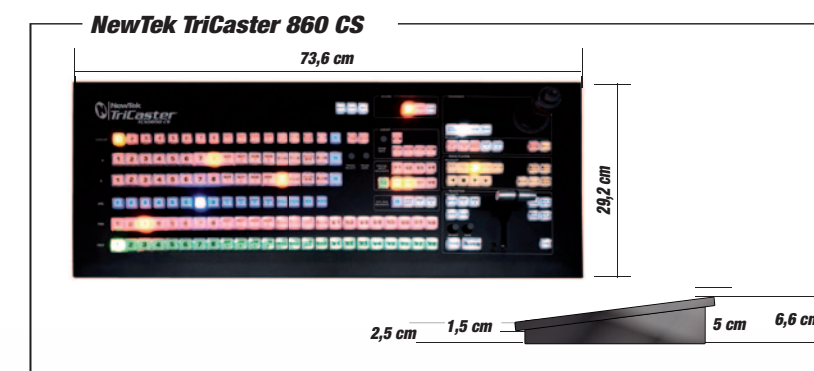


TriCaster™ 850 TW

850TW allows a second VT and slow motion playback operator to work remotely. Its ergonomic design is perfectly suited to broadcasting sporting events, allowing you to broadcast instant replays and slow motion playbacks at low cost!

- Ergonomic control from the media player Jog-Shuttle controller and dedicated buttons
 - Select rebroadcast actions with one touch
 - T-Bar for precision control of slow motion playbacks
- TriCaster 850 TW is compatible with TriCaster 8000, 860, 460, 410, and Mini. As well as with all the old models in the SD/HD range.

Dimensions



Generic features of all TriCasters

Supported video resolutions

PAL 1080/25p, 1080/50i, 720/50P, 720/25p, 576/25i - NTSC
1080/30p, 1080/60i, 720/60p, 720/30p, 480/60i, NTSC-J
1080/30p, 1080/60i, 720/60p, 720/30p, 480/60i

By video input

- Frame synchronizer and format converter, 3:2 Pull Down frequency conversion
- Color corrector, cropping and independent chroma-keys
- Supports fill and key signal connection by pairing 2 inputs for connecting to external animated graphics devices
- 4:4:4:4 sampling: - 32 bit floating point
- Fixed video processing time ranging between 1 and 2 images depending on the resolutions used.

PTZ protocols

Panasonic : Ethernet and RS232, Sony Evi D30-Evi D70-HDI7V-BRC300-Z700-BRCH700-H900 : RS232, RS422 and Ethernet, Telemetrics : Ethernet and RS232, Pelco D : RS485 and RS232

Digital sources

2 simultaneous channels to select from multiple sources:

- PC or Macintosh computers via AirSend protocol
- Tablets and smartphones via Apple AirPlay® protocol
- Video streams and audio IP depending on several protocols: http, rtsp, rtmp, rtp from IP cameras or stream servers
- Cameras on USB ports
- Streams generated by the numerous third party applications supporting iVGA SDK, see <http://www.newtek.com/solutions/newtek-developer-network.html>
- IP streams generated by other TriCasters and 3Play

Audio inputs

Internal processing to 4 channels, 96kHz, 32 bit floating point

Monitoring

2 outputs for DVI and HDMI monitors for the user interface and the built-in multi-view monitor.

- Preview of all sources depending on different templates
- Customizable multi source multi-view monitoring for real time viewing of all sources, media players, Program and Preview outputs, M/E and clocks.
- Audio modulation VU meter overlays by source, Program and Preview
- Switchable Vision control mode with Vectorscope and profile monitor, with digital tuning, preview in color and supports ITU Rec 601 and 709.

Audio mixer

Built-in mixing features for all internal and external audio sources, for outputs, recordings, streaming and listening.

- Independently controlled Master and Aux outputs
- Solo auditioning
- Independent per-input volume, panning and audio delay control
- 7 band parametric equalizer and stereo compressor/limiter on each input.
- Possibility to group audio sources and link the selection of an audio channel to switch video sources (Audio Follow Video)
- Possibility to use the audio mixing features remotely on an iPad tablet or audio mixing consoles.

Media players

Media players supported

AVI, DV, DVCPRO, DVCPROHD, FLV, F4V, H.263, H.264, MOV, MKV, MJPEG, MPEG (1, 2, TS/PS), MP4, WMV, WebM, PSD, PNG, TGA, BMP, JPEG, EXR, RAW, TIF, AIFF, MP3, WAV. ProRes for import.

Recording

Isocorder® multichannel recording technology, multi-codecs on hard drives.

- Resolution supported up to 1080p with timecode
- Multiple independent encoding formats per channel: QuickTime® (XDCam HD compatible) 4:2:2 and 4:2:0, MPEG-2 (High or normal Profile), AVI (SpeedHQ), H264 (high quality or compression).
- Possibility of background transfer for media which is being recorded to an FTP server or network storage
- Frame synchronization for the recording channels for later multicam editing.
- Reading and editing the media being recorded
- Supports the optional 850TW console for slow motion instant replays.
- Instant image retrieval feature in the program or in all sources simultaneously.

Social Networks

Built-in publishing module to engage with social networks like Facebook™, Twitter™ and YouTube™:

Feature for editing video excerpts and images to be published, with the possibility to enter comments. Automatic or manual downloading. Simultaneous publication with the recording and streaming features.

Live streaming

Standard profiles up to 720p resolution.

Numerous native presets for Youtube®, Akamai®, Ustream®.

Built-in profile editor with integrated internet browser. Configurable

profiles in multiple flows depending on H264 encodings in RTMP (for Adobe® Flash Media Server), in Microsoft® Windows Media® Push/Pull, and supports streaming applications with integrated internet browser.

Possibility to record the streamed program.

Export media formats

Built-in batch transcoding to convert files saved in different formats including: Apple ProRes, AVI, DV, DVCPRO, DVD, H.264, MOV, MPEG-2, MJPEG, MP4, WebM

Presets for mobiles: Android®, iPad®, iPhone®, iPod® Touch
NewTek SpeedHQ codec pack is copyright free and can be installed on PC and Macintosh for native compatibility with saved files.

Transitions and Effects

Effects and transition engine available on the two mixers and on each DSK channel.

Large library of standard transitions

Choice of transitions with animated wipes or 3D dissolves, animated jingle overlays and audio jingles to go with them.

Built-in transitions editor for completely customized transitions, with wipe effects, 3D dissolves, jingles and audio jingles.

Macro-commands

Macro-commands recorder with editor. Trigger macros with keyboard shortcuts, by allocating control surface buttons, with MIDI buttons, with Crestron® or AMX® type automation systems, through GPI (optional) and gesture detection.

Virtual sets

Exclusive real time virtual set technology from fixed cameras:

Multiple camera angles and Pan, Tilt and Zoom movements
Source images and light.

Built-in library of more than 30 sets

Use real panoramic photos as 360° sets

Optional software for customizing and creating virtual sets: Virtual Set Editor.

Hotspots

Exclusive gesture detection feature. Allows you to position up to 8 interactive and virtual areas in one scene and trigger 2 macro-commands in each area.

MIDI controllers

Native support for Midi protocol to completely control TriCaster through macro-commands from external devices: automated hotspots and MIDI consoles.

Functions	TriCaster Mini HD-4	TriCaster Mini HD-4i	TriCaster 410	TriCaster 460	TriCaster 860	TriCaster 8000
Inputs/Outputs HDMI	4/3	4/3	0/2	0/2	0/2	0/2
Inputs/Outputs SDI SD-HD	—	—	4/2	4/2	8/3	8/3
E/ S Y-U-V, Y-C, Composites	—	—	—	4/2	8/3	8/3
Display Port Output	DVI	DVI	HD15	HD15	HD15	HD15
Interface/Multiview Output	DVI/HDMI	DVI/HDMI	DVI/HDMI	DVI/HDMI	DVI/DVI	DVI/DVI
Genlock	—	—	—	✓	✓	✓
External Router Support	—	—	—	—	—	✓
Mirroring	—	—	—	—	—	✓
Tally Port	—	—	✓	✓	✓	✓
Clips Media Players	2	2	2	2	2	2
Stills & Titles Media Players	1	1	1	1	2	2
Sound media Player	1	1	1	1	1	1
FrameStore Buffers	15	15	15	10	10	5
ClipStore Buffers	—	—	—	5	5	10
Recording Channels	4	4	4	4	8	8
Data Drives	1x 750Go	2x 750Go	1x 3To	1x 3To	1x 3To	4x 2To
Manufacturer storage capacity (1080i)	15h	30h	70h	70h	70h	220 h
Removable Drive Bays	—	—	—	1	4	4
ME Channels	4	4	4	4	8	8
Overlays/DSK per ME	2/1	2/1	2/1	2/1	2/1	4/4
ME re-entry	—	—	—	—	—	✓
Motion Tracking in real time	—	—	—	—	—	✓
Redundant power supply	—	—	—	—	✓	✓
System Physical	—	—	2U	2U	4U	4U

Animation Store Creator

Tool for customizing transitions and creating jingles.

Animation Store Creator is supplied as standard with all TriCaster models. It has two functions:

• **Supplying the TriCaster 460, 860 and 8000 ClipStores**
These memories allow you to load animations of no longer than 20 seconds that can be used in the different TriCaster animated graphic overlays (M/E and DSK). They can be used for logos or animated backgrounds, without monopolizing the media players. AS Creator transforms all BMP or TGA image sequences into animated files in ClipStores format and automatically retains the transparency information (Alpha Channel) that will be used automatically by the ME and DSK overlays.

• **Create animated transitions and customized jingles**
AS Creator lets you generate transitions consisting of 2 animated overlays from BMP or TGA image sequences. The first layer allows you to animate transition wipes between two sources and the second to overlay a 2D or 3D animation. This feature allows you to create jingles very simply from club or competition logos to show before slow motion replays or scoreboards. AS Creator also integrates features for crossfading and dissolving sources over animated 3D objects for stunning and very professional rendering.



Virtual Set Editor 2.5

VSE is the software needed to integrate the new virtual sets and composition templates in TriCasters.

Set editor: from the library of sets provided, it allows you to customize in a few mouse clicks: delete set furniture or elements, change color palettes, replace textures, edit camera frames.

Importing new sets: a new set can be created using all the 3D design software available on the market. The project must then simply be assembled in a PSD project including the different layers of the set: background, shots of actual views to be inserted, foregrounds and other decorative elements. VSE lets you transform the PSD project into a virtual set directly accessible from the TriCaster M/E bus.

Creating composition templates: in the same way, VSE allows you to very quickly prepare composition templates to overlay several real sources on a customized background, with frames, borders and shading. Simply prepare the background and the locations to overlay the sources in a Photoshop® project and import it with VSE to create the corresponding M/E.

Holographic sets: VSE also allows you to transform a panoramic image into 360° set in which the various Live sources connected to the TriCaster can be integrated.



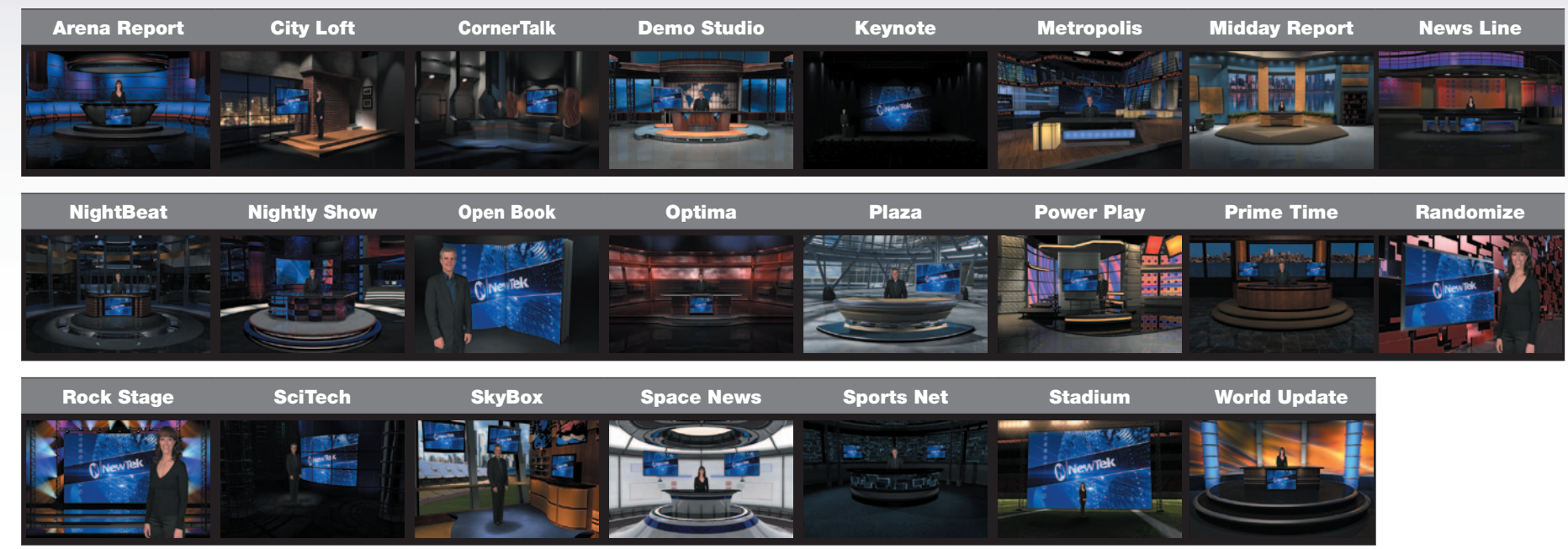
Features:

Virtual Set Editor 2.5 includes 2 VSE software licenses, one that can be installed on the TriCaster and the other on a PC for creation. An additional Animation Store Creator license is also provided to enable you to create custom transitions remotely.

Minimum system requirements:

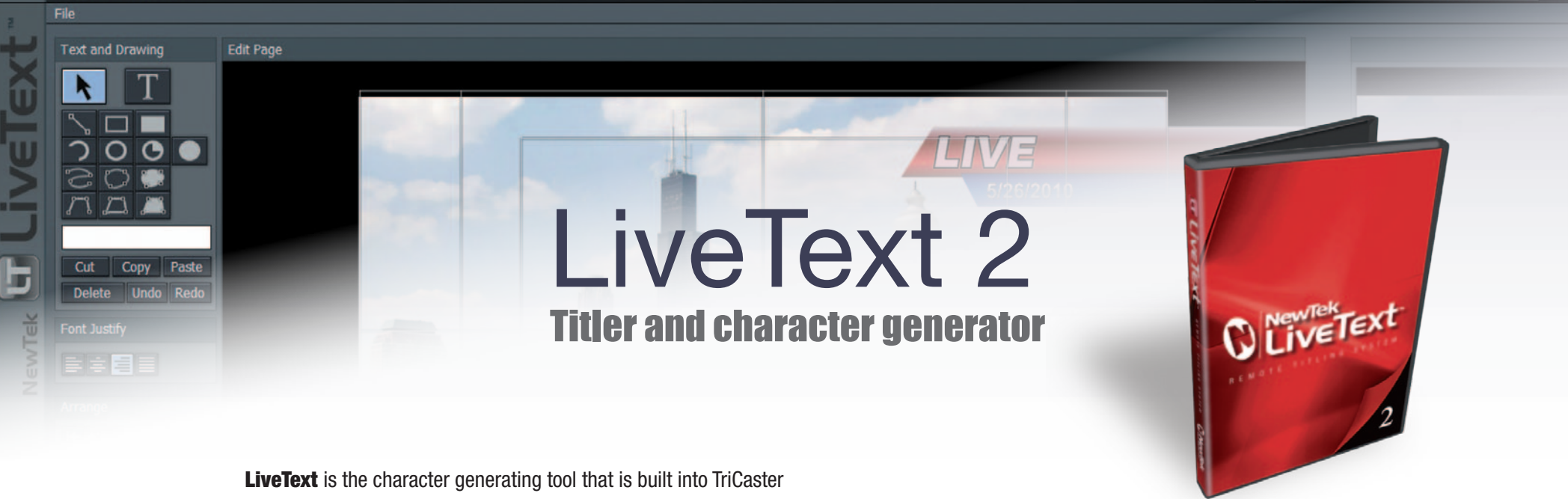
- 64-bit operating system: Windows 7 or Windows Vista or higher.
- 4GB RAM.
- Directx® 11 graphics card NVidia GPU with 1GB of dedicated memory and minimum resolution of 1200x800.
- 5GB of free space on hard disk.
- 1200 x 800 display.

TriCaster Virtual Set Gallery



Virtual Set Editor 2.5 Gallery – Customizable environments





LiveText is the character generating tool that is built into TriCaster models. It supports numerous file formats for importing existing elements and graphic charts, preparing title page and logo templates which can then be edited during live broadcasts to enter the names of speakers, replace photos and logos.

Live text operator workstation: NewTek offers an additional LiveText 2 license to create a remote character generating workstation on a standalone PC connected to the production system via the network. The graphics and animation pages are transmitted in real time through IP channels and can be used live, without monopolizing the video inputs. Transparency (Alpha Channel) is detected directly in the different M/E and DSK overlays.

Dynamic animated graphics: The LiveText 2 license allows you to automate result table displays (sports, elections, games etc.), scores updated instantly, RSS news feeds, extracts from SQL databases, as well as the current time and date.

Extremely intuitive editor: The LiveText 2 multi-overlay editor works very fast to achieve most of the needs of animated graphics: titles/subtitles, crawl and roll, simple generic credits...



Minimum system requirements:

Windows 7 or Windows Vista operating system or higher.
 Processor with SSE2 support (Intel® Core2® type or higher)
 4 GB of RAM.
 DirectX® 9 graphics card or higher and a minimum resolution of 1200x800.
 Gigabit Ethernet connection.



The NewTek Developer Network is a growing ecosystem of companies and products. Many major players in the audiovisual industry are adapting their tools and integrating links for TriCasters and 3Play slow motion replay servers thanks to development kits written and supported by NewTek. Users benefit continuously from new tools to improve the way they work and access to the latest technologies at a low cost.

3D Storm is a member of the NewTek developer network. With its LiveXpert brand, 3D Storm offers a range of tools carefully selected to make life simple for all video production operators. LiveXpert is also a services environment to promote, distribute and support developers through its network of partners established throughout the whole world.

A complete range of solutions are now available to optimize TriCaster production workflow in Newsroom configurations and centralized storage (SAN), to interface with MAM systems, 3D animated graphics systems and specialized scoring equipment...



www.newtek.com/solutions/newtek-developer-network.html

3Play™ 4800/440

This new generation 3Play server gives you a decisive lead in all audience fields! This is the most complete, integrated production solution for sporting events and large screen animation.

Far from being a fad, this version was dictated by the multiplication of sporting activities, broadcasting media and uses of video in sport. Masters in the art of combining tools with ergonomics and productivity, NewTek offers a whole new versatility, at a very competitive price.



3Play 4800 - Monitor not included.

Transform games into spectacles

3Play 440 et 4800 combine the largest range of functions dedicated to using video in a sporting environment. Powerful systems for autonomous control or specific application within a traditional production environment, 3Play provide multiple services for stadium productions, OB vans, racetracks, sports halls and arenas.

Recording: 3Play continuously records 4 or 8 sources regardless of whether each source has SD or HD resolution and digital or analog format. 3Play guarantees that sources are synchronized for recording and rendering.

Broadcasting: the operator has real time access to each source while it is being recorded, and selects extracts to be broadcast in all playback modes: at normal speed, slow motion or accelerated, front/rear. A playlist editor lets you very quickly create match reports, highlights and also to import video clips, trailers and presentations to be broadcast.

Publishing: during live broadcasts and with no additional equipment, 3Play lets you publish extracts on social networks with comments on the action, get audiences going, animate supporters clubs and promote brand images.

Judging: with the exclusive use of a video referee, 3Play can return at any moment to the same action from every angle simultaneously, in all player modes, including image by image. Post match, it becomes a flexible and fast tool for analyzing coaches. 3Play is frequently used as a video referee in handball competitions, go kart racing and on many racecourses.

Commenting: without using a video mixer, 3Play allows operators to broadcast enriched images composed from one source or another, to overlay journalists, a view of the scoreboard or a second angle on the same action. 3Play can also display scores and manage transitions with 3D animated jingles.

3Play 4800



3Play™ 4800/440

Instant slow motion replay tools

From your standard cameras, in SD or HD, 3Play uses sophisticated algorithms to play back a fluid and precise replay slowed down or accelerated from -200% to +200%.

The 3Play user interface adapts to the habits of each operator, offers superior ease of use and gives more autonomy.

More previews: 3Play offers the operator more information and previews than all of the other dedicated slow motion systems. It always has all the live broadcast angles available and all the action which has already been selected and can switch to the best shot at any moment.

Program/Preview mode: the outputs are configurable in 2 independent channel modes or in AB /Roll so a second slow motion angle can be prepared while the previous one is being broadcast. The control surface comprises dedicated commands to return instantly to the action, choose the best angle and be ready to rebroadcast it. Running in parallel with keyboard and mouse and a full graphical user interface, intelligently distributed on 2 screens, 3Play offers true ease of use for preparing reports and highlights during a live broadcast.

Fast and precise indexing: 3Play has an innovative built-in system to mark each clip with a series of keywords on the fly. For example, it only takes 3 button presses to associate the name of the team, the player and the type of action to an event. Indexing

is completely customizable and allows you to import keywords from a spreadsheet. On demand, all clips responding to an extended search are instantly listed.

More comfort, less stress: many sports have repetitive phases which demand attention or overload the task of the operator. With its powerful macro command editor, 3Play enables you to automate recurring operations and even to use them remotely on an external MIDI console to be used by an assistant.

Choose innovation

Choosing 3Play means seizing the opportunity to rethink and streamline the equipment necessary for modern production. It also means being able to propose budgets more in line with the human resources deployed than the technical means!

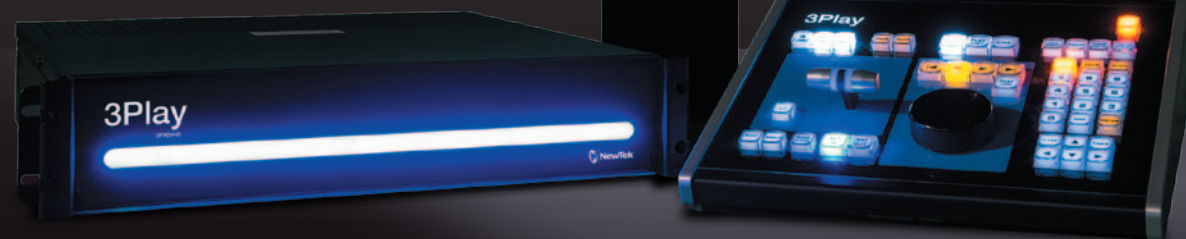
Integration for better broadcasting: why accumulate flight-cases when a single 4U rack 3Play 4800 allows you to record with 8 cameras for 25 hours, manage slow motion replays for the main screen, direct streaming for the second screen, and publish the best moments on the third. When being live on Facebook, Twitter, YouTube requires nothing more than pressing a single button, there's no need for excess equipment!

Dare to create new images: each output channel on the 3Play 440 and 4800 has a built-in DSK bus with 2D DVE and 2D/ 3D transition generator. These buses can overlay different sources in real time: a second real time view of the same action, a Live shot above a slow motion sequence, logos or pre-loaded animated sequences, graphical analysis from a telestration

system transmitted in real time via an Ethernet connection, comments or a video stream from a tablet or a smartphone by wireless Apple AirPlay® link.

Choose versatility: a single server does not mean one operator alone. Although autonomous, 3Play is configurable for multiple users with remote monitoring and interfaces. It can automatically load media to be integrated in the live broadcast by monitoring the directory via the network.

A total environment: versatility also means being able to integrate into a complete configuration and enrich it with exclusive features. 3Play can control an external grid to access more sources in real time, it has full SDK which can be controlled by IP commands or natively by MIDI commands. Used with TriCasters, 3Play can make use of editable macro-commands to automatically receive Tally information. A media import module with a transcoding option lets you load a large number of file formats to broadcast them.



3Play 440



3Play 440 - Monitor not included.

3Play™ 4800/440 Comparison table

	3Play 4800	3Play 440
Video input	8 x HD-SDI, HD Component, S-SDSI, SD Component, Y/C (BNC) or Composite connections • Per-input format configuration, scaler (including 3:2 intelligent pull-down) and frame synchronizer enabling intermixing of formats • automatic color correction.	4 x HD-SDI, HD Component, S-SDSI, SD Component, Y/C (BNC) or Composite connections • Per-input format configuration, scaler (including 3:2 intelligent pull-down) and frame synchronizer enabling intermixing of formats • automatic color correction.
Audio inputs	8 SDI Embedded 8 AES3/EBU 8 x 2 Balanced XLR Phantom Power Support	4 x SDI Embedded 3 x 2 Balanced 1/4" 1 x 2 Balanced XLR
Video output	3 x HD-SDI, HD Component, S-SDSI, SD Component, Y/C (BNC) or Composite connections • 1 x HDMI output • 2x HDMI and DB15 VGA display ports for auxiliary monitoring or display • Ethernet connection for A/V output over a local network to TriCaster	2 x HD-SDI, HD Component, S-SDSI, SD Component, Y/C (BNC) or Composite connections • 1 x HDMI output • 2x HDMI and DB15 VGA display ports for auxiliary monitoring or display • Ethernet connection for A/V output over a local network to TriCaster
Audio outputs	3 SDI Embedded 2 AES3/EBU 4 x 2 Balanced XLR 1 Stereo 1/4" (phones)	2 SDI Embedded 1 x 2 Balanced XLR 1 x 2 Balanced 1/4" 1 Stereo 1/4" (phones)
User interface	1x DVI output for combined display of all live sources and playout channel, with clips and playlists 1x DVI output for dedicated multiview of all live sources and playout channel	1x DVI output for combined display of all live sources and playout channel, with clips and playlists 1x HDMI output for dedicated multiview of all live sources and playout channel
Recording Channels	8 or 4 redundant	4
Hard Drives	4 x 2 To	1 x 3 To
Recording Capacity	200 hours	140 hours
AUX video output	1 SDI SD/HD and analog	-
Redundant Power Supply	Yes	-
System Physical	4U – 20 kg	2U – 11,8 kg

Subject to change without notice - Full specifications on www.3dstorm.com

3Play 440 and 4800 have the same architecture and operating tools. The Animation Store Creator module is pre-installed on these two servers to create and customize transitions and jingles (description on page 27). The only difference is with the following capacities:

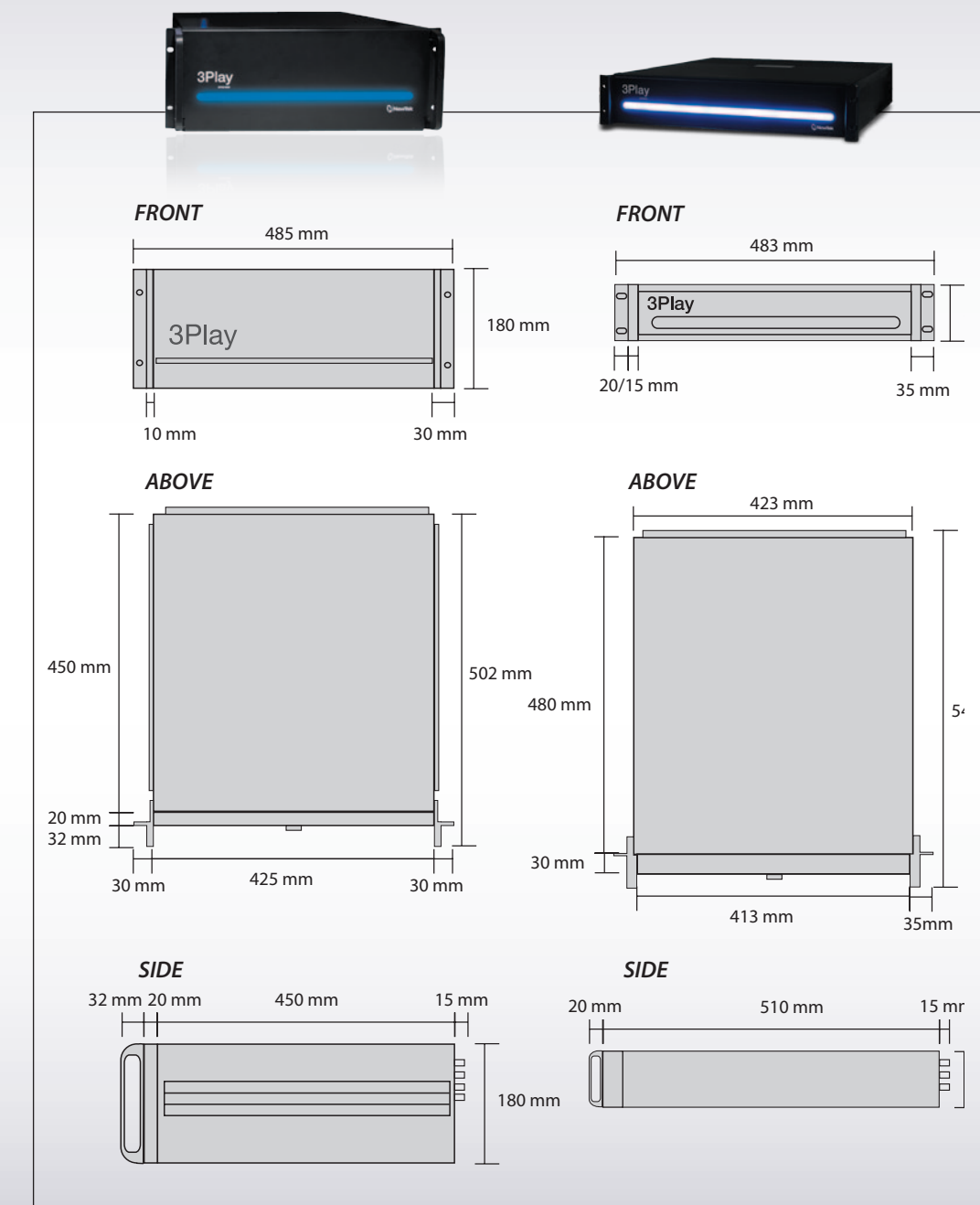
Redundancy: 3Play 4800 is a 4U rack mount solution with redundant power supplies and 4 hard drives for a recording capacity of 200 hours. 3Play 440 is a 2U rack mount solution with a recording capacity of 140 hours.

Redundant capture: 3Play 4800 lets you record either 8 sources simultaneously or 4 sources on 2 pairs of hard drives ensuring that the server is always running even if one or two of the hard drives fails.

3Play 4800/440 Technical Specifications

Recording Format	QuickTime®
Supported Session Formats	PAL.: 1080/25p, 1080/24p, 1080/50i, 720/50p, 720/25p, 720/24p, 576/25i NTSC, NTSC-J : 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i • Support 16:9 et 4:3 aspect ratios
Output Channels	2 independant channels or Program/Preview Mode with transitions
DSK	1 overlay per playout channel, with independent transition, positioning, scaling and cropping, and support for picture-in-picture layering of live camera, playback angle, game clock signal • DSK preview in the integrated multiviewer
Network inputs	2 simultaneous live inputs per DSK for connection with: • networked computers via NewTek AirSend protocol • wireless Apple AirPlay devices • a variety of third-party partner solutions, see http://www.newtek.com/solutions/newtek-developer-network.html • Other networked Tricaster and 3Play
Buffer	Stills, titles and animation buffers for overlay
Playback	From -200% to +200%
Time Code	External LTC source or internal system clock
Genlock	Locks to HD or SD analog signals • Supports either tri-level or bi-level sync sources
User Interface	1x DVI output for combined display of all live sources and playout channel, with clips and playlists • 1x DVI output for dedicated multiview of all live sources and playout channel
Control Surface	3Play hardware control surface with T-Bar for speed control, jog wheel, deportation of commands to trim clips and playlist
Router Support	AJA, Blackmagic Design, Ensemble Designs, Miranda, Utah Scientific, and brands supporting Grass Valley Native Protocol
Grab	Grab still images from output or all inputs and outputs
Media Publishing	Facebook, Twitter, YouTube, FTP, network servers
Asset Management	By keywords. Tags system to enter and organize metadata via user-defined codes, with support for Microsoft Excel list import
External Control	Macro Commands Control • standard MIDI and AMP protocols • IP protocol by SDK • IP commands by a companion NewTek TriCaster system

Subject to change without notice - Full specifications on www.3dstorm.com



3Play™ 425



For years, the extremely high cost of servers has restricted the use of live slow motion replays to broadcasting sports to large audiences. And without quality broadcasting, it's difficult to increase your ratings!

With **3Play 425**, NewTek breaks the vicious circle and lets all sports develop their audience by offering attractive broadcasting with professional rendering.

A major league player - But without the price!

NewTek 3Play 425 is a live slow motion replay 6 channel server (4 inputs, 2 outputs) which lets you simultaneously, play, record and create instant slow motion replays on all sources. A compact turnkey solution, which fits perfectly in all production spaces, even the most confined.

3Play 425 is affordable yet still ergonomic and fast to use. The control surface comprises dedicated commands to return instantly to the action, choose the best angle and be ready to rebroadcast it. Running in parallel with keyboard and mouse, 3Play offers true ease of use for preparing reports and highlights.

Integrated and versatile: Recording capacity of 30 hours on extractable storage disk, supports SD or HD media sources in SDI or analog. Two independent SDI and analog broadcast outputs. 2 output screens for the built-in multi-view monitor to view sources and output channels and display the playlist of summaries and selected clips.

Interpolated slow motion: 3Play gives the public what it expects from high quality replays to enjoy the best moments of their favorite sport even more. With slow motion speed dynamically variable from 0 to 100%.



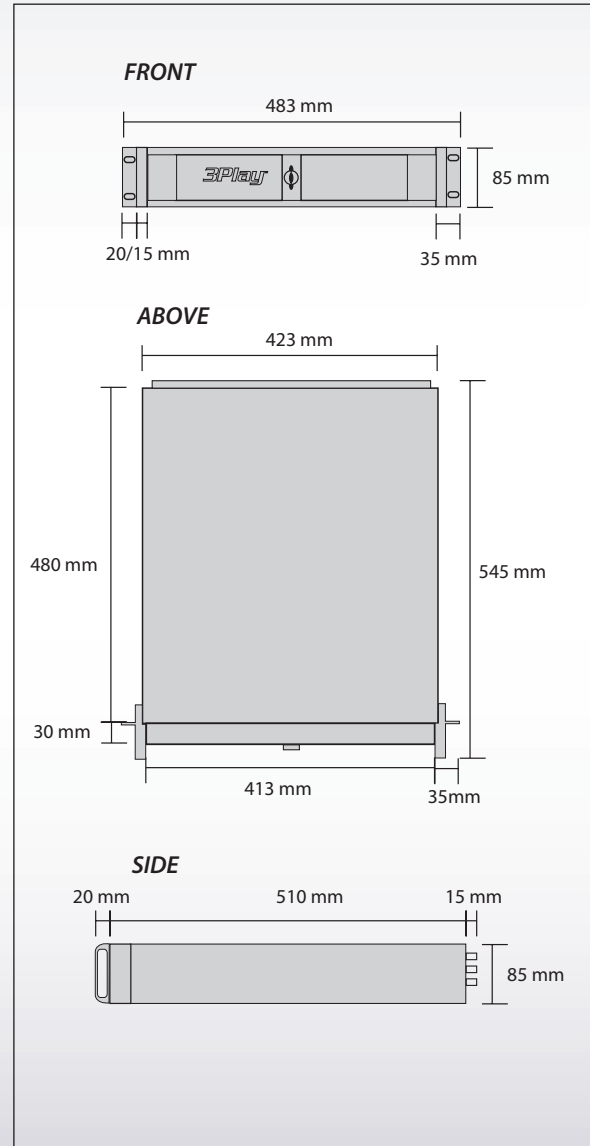
Configured for the trunk of a car: A TriCaster 410 and 3Play 425 together are all the production equipment you need and the most compact there is. A complete 4 camera production system in two 2U racks with slow motion

server on each camera, with no need to add video routers. Everything is built-in: animated graphs and scores, customized transitions, playlists for presenting teams and players and promoting sponsors. And all the outputs for simultaneous broadcasts on large screens, on TNT channels and the Internet!





3Play™ 425 Technical Specifications



Video Inputs	Up to 4 simultaneous live video sources, in any combination of supported connection types, resolutions and frame rates •Direct input of cameras and video devices in any combination of HD-SDI, HD Component, SD-SDI, SD Component, Y/C (BNC) or Composite connections •Per-input format configuration, scaler and frame synchronizer enabling intermixing of formats
Audio Inputs	4 SDI Embedded 3 x 2 Balanced 1/4" (Mic/Line) 1 x 2 Balanced XLR (Mic/Line)
Video Outputs	• 2 x SD/HD-SDI • 2 x Analog (configurable for Component or Y/C + Composite) • 1 x HDMI output that follows the actively-controlled playout channel • Ethernet connection for A/V output over a local network to TriCaster
Audio Outputs	2 SDI Embedded 1 x 2 Balanced XLR 1 x 2 Balanced 1/4"
Recording	4 channels. MPEG 2 I-Frame Encoding
Supported Session Formats	PAL,NTSC, NTSC-J; 1080/25p, 1080/50i, 720/50p, 720/25p, 576/25i Support 16:9 et 4:3 aspect ratios
Recording Capacity	Accommodates ~40 hours 1080i via internal drive and 1TB removable media drive (included) MPEG-2 all I-frame
Playback	0% to 100% variable-speed playback
Timecode	External LTC source or internal system clock
Genlock	1 x Locks to HD or SD analog signals Supports either tri-level or bi-level sync sources
User Interface	1x DVI output for combined display of all live sources and playout channel, with clips and playlists 1x DVI output for dedicated multiview of all live sources and playout channel
Controller	3Play hardware control surface with T-Bar for speed control, jog wheel, deportation of commands to trim clips and playlist
System Physical	2U Rack Mount - 12.7 kg

Subject to change without notice - Full specifications on www.3dstorm.com



SERVICES

NewTek Manufacturer's Warranty

The original warranty period for new TriCaster and 3Play systems from NewTek is twelve (12) months from the date of registration of the product. This warranty includes parts and labor.

[More information on the NewTek manufacturer's warranty: http://www.3dstorm.com/en/warranty](http://www.3dstorm.com/en/warranty)

Exclusive 3D Storm Services Plus 18 month Warranty

3D Storm extends the manufacturer warranty period by 6 months for free and includes the following services, during the 18 months warranty period:

- ✓ Priority technical support by phone or by email with free callback service.
- ✓ Free pick-up and return shipping for equipment in the event of repairs during the warranty period.
- ✓ Free loan for repairs taking longer than 10 working days.

[For the more information about product eligibility in the free Services Plus program, exclusive to 3D Storm, go to www.3dstorm.com](http://www.3dstorm.com)

3D Storm Extended Warranty Program Services Plus Gold Star

3D Storm protects your investment for up to 42 months, with a continuous operation option. The Services Plus Gold Star contract can be taken out for all products under the original 3D Storm Services Plus warranty and includes:

- ✓ 12 or 24 month extension to the 3D Storm Services Plus warranty and associated services.
- ✓ Express pick up and loan of equipment within 24hrs
- ✓ Priority repair service
- ✓ The Service Plus Gold Star contract is transferred if the production system is resold and protects your investment.

The Services Plus and Services Plus Gold Star services are available on the following units: TriCaster 410, 460, 860, 8000, 3Play 425, 440, and 4800, (excluding control surfaces) registered and purchased through the network of 3D Storm Authorized and Specialist resellers in Europe (EU). This program is also applicable in Switzerland.

[For more information about the Services Plus and Services Plus Gold Star Programs, contact 3D Storm. http://www.3dstorm.com/en/warranty](http://www.3dstorm.com/en/warranty)



Maintenance and repair center:

3D Storm is an international maintenance and repair center for NewTek products. The 3D Storm technical service, based in Bordeaux, France manages the in warranty and out of warranty after-sales service, fully on the spot, without factory return and exclusively from spare parts certified by NewTek.

Reseller Network



3D Storm works with an extensive network of companies specializing in A/V equipment throughout Europe, the Middle East, Africa and Turkey. Find information about Authorized and Specialist NewTek resellers in your country [on www.3dstorm.com](http://www.3dstorm.com).

Training Program



3D Storm organizes training courses for TriCaster, 3Play and virtual set creation for TriCaster. These training courses can be supplemented by production assistance assignments to support you during your first projects. Please contact the 3D Storm team to organize your next training session.

NewTek TriCaster Operator Certification



Obtaining NewTek operator certification is a token of your in-depth technical knowledge of TriCaster and 3Play equipment. Certified operators can pride themselves in having their expertise recognized by an up to date technical charter.

3D Storm organizes official certification for TriCaster and 3Play operators on demand or during sessions organized for this purpose. The certification programs are available at this link: <http://www.newtek.com/support/certified.html>. 3D Storm is authorized for certification preparation and for validating experience.

Contact 3D Storm for any information regarding NewTek TriCaster/3Play operator certification: info@3dstorm.com

Call Back



For any questions about our products, do not hesitate to use our **FREE CALLBACK SERVICE** accessible from the home page at www.3dstorm.com. Fill in the required fields with your phone number and a callback time and we will contact you as soon as possible.



3D STORM

3D Storm, the Official Master Distributor of NewTek products, is a major player in the converging computing and audiovisual industries.

The 3D Storm team is run by people with more than 25 years of experience who have been partners with NewTek since 1989.

Since 1999 3D Storm has specialized exclusively in distributing and supporting products developed by NewTek to provide a full range of services to live broadcast professionals.

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