Newfek

2012 CATALOG



Table of Contents

TRICASTER PRESENTATION page 4
TRICASTER 850 EXTREME page 6
TRICASTER 850 page 10
TRICASTER 450 EXTREME page 14
TRICASTER 450 page 16
TRICASTER ACCESSORIES page 18
3PLAY PRESENTATION page 22
3PLAY 820 page 24
3PLAY 425 page 26
LIGHTWAVE page 28
SERVICES page 33
COMPARATIVE TABLE page 34



Benefiting producers and artists with cost-effective and groundbreaking technologies, **NewTek** is a worldwide leader in portable live production, 3D animation and special effects tools, including the **TriCaster**[™] product line, **3PLAY**[™] and LightWave3D[®]. NewTek has won numerous industry accolades, including two Emmy® Awards.

TriCaster " 3Play " LightWave

Clients include: BBC, The European Parliament, France Televisions, Mediaset, RTBF, RTL, SIS LIVE, MTV, Fox News, ESPN, NBA, CBS Radio...

NewTek products have been used in blockbuster movies and television shows, including "Avatar", "Repo Men", "Alice in Wonderland", "Tintin", "CSI: Crime Scene Investigation", "Lost".







HD programming.

It's an all-terrain equipment, flexible and light. It solves a lot of bugs that usually happen during musical events production.

Jean Roman Sales, Manager, Oxymore Productions

TriCaster

High definition, live, multi-camera video production no longer requires giant production trucks with banks of monitors, meters of cables, tape machines, video recorders, video effects generators, titling stations, audio mixers and more. Today, all of that power, quality and potential exists in a 20-kilos box small enough to fit in a backpack with the flexibility for one person or a small team to deliver network-quality video. TriCaster™ makes it possible for you to broadcast, project, live stream or record full



TriCaster ******

TriCaster is a high definition, network-quality portable live production solution. In one small box you gain multi-channel HD switching, HD network-style virtual sets, HD titling, HD digital disk recording, audio mixing, HD editing, full HD streaming and more.

Producers and sponsors worldwide find in **TriCaster** all the tools they need to achieve professional results that match their brand.



TriCaster™ 850 EXTREME[™], portable Live Production system, offers a wide range of capabilities and redefines what HD live production systems can do. **TriCaster 850 EXTREME** includes proprietary NewTek IsoCorder[™] multi-track recording technology, which provides the ability to simultaneously record up to eight channels of video from either inputs or outputs.

- 24 channel switcher.

- sound.
- streams.
- applications.
- Proprietary NewTek IsoCorder[™] Technology Multi-track recording technology to record up to eight channels of video, simultaneously from any input or output.

- Animation Store Transitions and Animation Store Creator Deliver transitions embedded with full-color, motion video effects and audio, from a total of 11 animation stores.

TriCaster 850 Extreme

8 simultaneous HD/SD inputs.

- 8 Virtual Inputs which function as an advanced mix/effects bus with positioning and overlay capabilities.
- 5 digital Media Players for video playback, titles, stills, music and

• Apple[®] AirPlay[®] Support of two simultaneous AirPlay audio/video

● Two iVGA[™] inputs deliver imagery or LiveText CG pages, from networked computers to the switcher or overlay channels. • HDMI program out for projector (IMAG) or other monitoring

- 200 hours of 1080i recording capacity (4x2 To).
- Supported Formats: QuickTime[®], H.264[®], AVI et MPEG-2. • Four removable drive bays.



- Live Streaming in Flash or WMV.
- Configure, store and import favorite streaming set-ups as presets, direct access to CDN accounts.
- Equalizer and compressor/limiter on every input .
- Multi-angles virtual sets with real-time reflection and animated zoom.
- Robust 19" rack mount case with Redundant power supply.



channel preview.

Simultaneously.

simultaneously.

Instantly.

Record in HD and broadcast in SD was impossible until now. TriCaster is easy to use and allows us to vary formats and increase broadcast possibilities.

Jean Pecci, Film-maker, PRODCAST Films

Interface

- **LIVE DESKTOP MONITORS:** Integrated multi-view monitoring. Advanced alpha
- NETWORK INPUTS: Go wireless with iOS devices, Apple[®] AirPlay[®] support. iPad[®], iPod[®] and iPhone[®].
- PROGRAM MONITOR: View current video output. See what your audience sees
- 4 LOOK-AHEAD PREVIEW MONITOR: Display your next shot.
- **(5) ONE-BUTTON RECORDING:** Capture live production and individual sources.
- ONE-BUTTON WEB STREAMING: Use Adobe® Flash® or Microsoft® Windows Media® to stream.
- **1** LIVE PRODUCTION SWITCHER: 24-channel switcher. Up to eight live cameras
- B UTILITY ROW: Assign sources to FX bus, DSK channels and AUX output
- **9 UTILITY DELEGATE:** Total control of utility row. Easy reference source.

- 10 VIRTUAL INPUTS: Assign complex switcher effects to one button. Fully customizable.
- **TRANSITION CONTROLS:** Transition individual or multiple video layers on and off screen.
- **TRANSITIONS:** Broadcast-quality HD effects. Add interest and impact.
- 13 24 HD LIVE VIRTUAL SETS: Achieve the look of a network-style studio. Anywhere.
- 14 VIRTUAL INPUT CONTROLS: Configure virtual sets, double box effects and more.
- 15 DIGITAL MEDIA PLAYERS: Two DDRs for video playback. Titles bin. Stills store. Sound player.
- 16 LIVE TITLES: Give your production a network-quality finish. Graphics. Titles. Animated overlays.
- **AUDIO MIXING:** Seven-band equalizer. Compressor/limiter. Complete audio control

TECHNICAL SPECIFICATIONS





With TriCaster, we went from a team of 7 to 8 persons to 3 or 4 for the same quality of work.

Marcos Fernandez, Director, 8mm Producciones

TriCaster 850

HD/SD portable Live Production

TriCaster[™] **850**, a 24-channel video mixer, accepts high definition video in 1080p, 1080i and 720p along with SDI, Y/C, component and composite. Various formats can be combined and sources don't need to be synchronized.

- TriCaster 850 is easy to use with:
- 24-channel switcher.
- 8 simultaneous HD/SD inputs.
- 8 Virtual Inputs which function as an advanced mix/effects bus with positioning and overlay capabilities.
- 5 digital Media Players for video playback, titles, stills, music and

• 16 analog XLR audio inputs.

- Digital audio input options include eight AES/EBU inputs and full support for SDI-embedded audio.
- 2 iVGA[™] inputs deliver imagery or LiveText CG pages, from networked computers to the switcher or overlay
- Apple[®] AirPlay[®] Support of two simultaneous AirPlay audio/video streams.
- 2 (SD and analog) video output rows provide flexible simultaneous HD and SD video output from HD

- HDMI program out for projector (IMAG) or other monitoring applications.
- 32 hours of 1080i recording capacity (2 TB).
- 3 removable drive bays.
- Live Streaming in Flash or WMV.
- Configure, store and import favorite streaming set-ups as presets, direct access to CDN accounts.
- Robust 19'' rack mount case with Redundant power supply.



12 NEWTEK 2012 CATALOG TRICASTER 850 & 850 EXTREME

	m	Video Input	8 simultaneous inputs. Any combination of:HD-SDI, HD Component, SD-SDI, SD Component, Y/C (BNC) or Composite. HD-SDI Video Conforms to SMPTE 292M and SD Video Conforms to SMPTE 259M and ITU-R BT.656.	Live Virtual Se Network Conn
•	lo 	Audio Input	8 SDI Embedded - 8 AES3/EBU - 8 x 2 Balanced XLR (Mic/Line) - Analog Audio Levels Conform to SMPTE RP-155 - Phantom Power Support.	Virtual Input C Media Players
10 mm	50 mm	Video Output	3 simultaneous outputs. HD-SDI, HD Component, SD-SDI, SD	·····,···
ABOVE	<i></i> _		Component, Composite, Y/C (BNC). HDMI, DVI and VGA output for monitors and/or projector. Output sources include Program	Overlay
			out and AUX out (configurable for Program, Program clean, Preview, any input, Effects, any frame-store, alpha out).	Projector Outp
		Audio Output	3 SDI Embedded - 2 AES3/EBU - 4 Balanced XLR - 4 Balanced XLR (AUX). 1 Stereo 1/4" (Phones). Every output supports seven-	Multi-View Mo
450 mm	502 mm		band equalizer and full stereo compressor/limiter	Live Streaming
		Video Processing	32-bit Floating Point YcbCrA 4:4:4:4	Video Projecti
		Audio Processing	32-bit Floating Point 4 channels, 96 kHz	Signal Monito
20 mm		Supported Formats	1080/25p, 1080/50i, 720/50p, 720/25p 576/25i, 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i	Live Webcasti
425			(16:9 and 4:3)	Integrated Cha
30 mm 425 mm	30 mm	Recording Capacity	~ 36 Hours (1080i) - 4 tray less SATA III removable drive bays with hot-swap support for unlimited storage and backup	Media Format
SIDE		User Configuration	Record sessions and parameters – multiple customized playlists	Editing Softwa
32 mm 20 mm 450 m	nm 15 mm	Source Mixing SD/HD	Yes	Disk Bay
		iVGA Channel	2 dedicated channels for access to external network sources	Export Media
	180 mm		PC and Mac [®] displays mirrored via NewTek iVGA [™] technology, iTunes [™] and wireless iOS devices via Apple [®] AirPlay [®] on any	Accessory Opt
<u>U</u>			supported apps, including audio, photos and video	Redundant Po
		Tally	DB 15 connector for 8 PGM row tally lights	

Sets	18 HD live TriCaster virtual sets, with animated zoom and independent effects, including positioning, scaling, cropping and 3D rotation			
inection	1 Gigabit connection for network inputs and streaming output			
Overlay	1 per channel, upstream with keying, transitions and independent effects, including positioning, scaling, cropping and 3D rotation			
rs	5 integrated digital media players, including 2 DDRs, Stills, Titles and Sounds players, with presets and alpha channel support, with individually adjustable audio levels for all clips			
	Dual downstream keys (DSK) with matting, transitions and independent effects, including positioning, scaling, cropping and 3D rotation			
tput	16:9 or 4:3 aspect ratio, up to 1920 x 1200 resolution			
Ionitor Output	Layout choices include All Monitors, External Monitors, Internal Monitors, Program, Preview, Effects, Preview/ Program and Waveform/Vectorscope			
ng Full HD 720p 16 :9	Yes			
tion resolution	Adjustable up to 1920 x 1200			
oring	Waveform and Vectorscope displays - Full field rate with color preview			
ting	Yes - Adobe® Flash® to Flash media server connections or through browser based plug-ins - Microsoft® Windows Media® Push/Pull - Support for most common stream profiles			
haracter Generator	Yes			
ats	AVI, DV, DVCPro, MJPEG, MP4, H.264, MPEG-2, DVD, WebM, MOV and more			
vare	Yes			
	3 Removable drive bay SATA III			
a Formats	AVI, DV, DVCPro, MJPEG, MP4, H.264, MPEG-2, DVD, WebM, MOV and more			
ptions	TriCaster [™] 850 CS, TriCaster 850 TW, TriCaster Virtual Set Editor, TriCaster LC-11, TriCaster TimeWarp [™] and LiveText [™] 2			
ower Supply	Yes			

TriCaster 450 Extreme

HD Production Compact and Extreme

TriCaster[™] 450 EXTREME[™]. a 14-channel production system, includes IsoCorder Technology that allows simultaneous multi-formats recording of up to 4 video channels from any input or output.

- 14-channel switcher.
- 4 simultaneous HD/SD inputs.
- 4 Virtual Inputs which function as an advanced mix/effects bus with positioning and overlay capabilities.
- 4 digital Media Players for video playback, titles, stills, music and sound.



TriCaster

- channels.
- output.
- AVI and MPEG-2.

- Apple[®] AirPlay[®] Support of two simultaneous AirPlay audio/video streams.
- 2 iVGA[™] inputs deliver imagery or LiveText CG pages, from networked computers to the switcher or overlay
- HDMI program out for projector (IMAG) or other monitoring applications.
- Proprietary NewTek IsoCorder[™] Technology Multitrack recording technology to record up to four channels of video, simultaneously from any input or
- 40 hours of 1080i recording capacity.
- Supported recording Formats: QuickTimeR, H.264,
- 1 Internal Drive and 1 removable drive bay.

- Animation Store Transitions and Animation Store Creator Deliver transitions embedded with full-color, motion video effects and audio, from a total of 7 animation stores.
- Live Streaming in Flash or WMV.
- Configure, store and import favorite streaming set-ups as presets, direct access to CDN accounts.
- Equalizer and compressor/limiter on every input.
- Multi-angles virtual sets with real-time reflection and animated zoom.



I am now doing by myself what 22 people and a half million dollar control room did, thanks to NewTek TriCaster.



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Leo Laporte, Technology Journalist, TWiT TV



		Video Processing	4:4:4:4 - 32-bit Floating Point	Virtual Inputs	4 independent, mix/effect-style channels, each with presets,
		Audio Processing	4 channels, 96 kHz - 32-bit Floating Point		overlay and dedicated channel for titles, frame-buffer or watch folder
TriCaster 450	HD Production within reach	Video Input	4 simultaneous inputs. Any combination of: HD-SDI, HD Component, SD-SDI, SD Component, Y/C (BNC) or Compo- site. HD-SDI Video Conforms to SMPTE 292M and SD Video Conforms to SMPTE 259M and ITU-R BT.656.	Live Virtual Sets	20 HD live TriCaster virtual sets, with animated zoom and independent effects, including positioning, scaling, cropping and 3D rotation
TriCaster 450 ^{···} , a 14-channel live production system, provid	les 4 cameras inputs fitting all main events and studios configurations.	Audio Input	4 SDI Embedded - 3 x 2 Balanced 1/4" (Mic/Line) - 1 x 2 Balanced XLR (Mic/Line) - Analog Audio Levels Conform to SMPTE RP-155 Phantom Power Support	Overlay	Dual downstream keys (DSK) with matting, transitions and independent effects, including positioning, scaling, cropping and 3D rotation
 4 simultaneous HD/SD inputs. 4 Virtual Inputs which function as an advanced mix/ 	 1 PROGRAM output and 1 AUXILIARY output SD/HD and analog, can be configured according to sessions with real-time down conversion ability. 	Video Output	2 simultaneous outputs - HD-SDI, HD Component, SD-SDI, SD Component, Composite, Y/C (BNC) - HDMI, DVI and VGA output for monitors and/or projector - Output sources include	Media Players	4 integrated digital media players, including 2 DDRs, Stills, Titles and Sounds players, with presets and alpha channel support, with individually adjustable audio levels for all clips
effects bus with positioning and overlay capabilities.4 digital Media Players for video playback, titles, stills,	 Live Streaming in Flash or WMV. Configure, store and import favorite streaming set-ups as presets, direct access to CDN 		Program out and AUX out (configurable for Program, Program clean, Preview, any input, Effects, any frame-store, alpha out)	Multi-View Monitor Output	Internal Monitors, Program, Preview, Effects, Preview/
music and sound.4x4 symmetric audio channels.	accounts.Robust 19'' rack mount case.	Audio Output	2 SDI Embedded - 1 x 2 Balanced XLR - 1 x 2 Balanced 1/4" (AUX) - 1 Stereo 1/4" (Phones)	Projector Output	Program and Waveform/Vectorscope 16:9 or 4:3 aspect ratio, up to 1920 x 1200 resolution
Embedded SDI audio support.		Supported Formats	Multi-Standard: NTSC-J; PAL 1080/25p, 1080/50i, 720/50p, 720/25p 576/25i	Integrated Character Generator	LiveText [™] 2
● 2 iVGA [™] inputs deliver imagery or LiveText CG pages,		Project Formats	Support HD/SD sources 16:9 and 4:3 ratios	Editing Software	SpeedEDIT [™] 2
from networked computers to the switcher or overlay channels.		Recording	MPEG-2 (normal and high profile); MP3 - Full HD recording of Program output or AUX output in all resolutions up to 1080p	Playback Media Formats	DNxHD, DV, DVCPro, DVCProHD, MOV, MKV, MJPEG, MPEG (1,2 in all profiles, program or transport streams), AVI, MOV,
 Apple[®] AirPlay[®] Support of two simultaneous AirPlay audio/video streams. 		Recording Capacity	~ 20 Hours (1080i) - 1 trayless SATA III removable drive bay with hot-swap support for unlimited storage and backup		DV, H.263, H.264, FLV, WMV, MP4, PSD, PNG, TGA, BMP, JPEG, EXR, RAW, TIF, WAV, MP3, AIFF
• HDMI program out for projector (IMAG) or other		Live Streaming	Full HD live streaming in resolutions up to 720p (16:9 aspect ratio), with simultaneous archive - Streaming Profile Manager	Export Media Formats	Export module is included for batch copying with optional transcoding to a wide variety of different file formats and for
monitoring applications.20 hours of 1080i recording capacity (2	The second se		with integrated Web browser for access to online CDN ac- counts to manage or view shows		a wide variety of different applications and devices - AVI, DV, DVCPro, MJPEG, MP4, H.264, MPEG-2, DVD, WebM, MOV - Adobe Premiere, Avid MediaComposer, Apple® FinalCut Pro,
To). • 1 removable drive bay free space.		Supported Stream Types	Adobe® Flash [®] to Flash media server connections or through browser based plug-ins - Microsoft [®] Windows Media [®] Push/		Android [®] , iPad [®] , iPhone [®] , iPod [®] Touch
• I temovable unve bay nee space.	TriCaster		Pull Support for custom multi-bitrate streaming profiles	Accessory Options	TriCaster [™] 450 CS and TriCaster 850 TW, TriCaster Virtual Set Editor, TriCaster LC-11 and TriCaster LiveText [™] 2
		Network Connection	1 Gigabit connection for network inputs and streaming output	Tally	DB 15 connector for 4 PGM row tally lights
		Network Source Support	2 dedicated channels for access to external network sources - PC and Mac [®] displays mirrored via NewTek iVGA [™] techno- logy, iTunes [™] and wireless iOS devices via Apple [®] AirPlay [®] on any supported apps, including audio, photos and video		

TriCaster 850 CS

TriCaster[™] 850 CS hardware control surface is the ideal tool to complement TriCaster 850 EXTREME and TriCaster 850. It allocates all live functions operation on a dedicated control surface. TriCaster 850 CS provides instant control of the 24-channel system's titling parameters, effects, virtual inputs, media players, streaming and recording functions.

TriCaster 850 CS provides illuminated push buttons, twist knobs, a premium T-bar and three-axis joystick.

Take control of your <u>production</u>

LC-11

LC-11 offers a physical connection to TriCaster 300 functions. This hardware control surface works with TriCaster 850 and 850 EXTREME to provide a compact control surface to produce live from confined spaces.

TriCaster 450 CS

TriCaster[™] 450 CS hardware control surface is the ideal tool to complement TriCaster 450 EXTREME and TriCaster 450. It allocates all live functions operation on a dedicated control surface. TriCaster 450 CS provides instant control of the 14-channel system's titling parameters, effects, virtual inputs, media players, streaming and recording functions.

> TriCaster 450 CS provides illuminated push buttons, twist knobs, a premium T-bar and three-axis joystick.

Large, backlit, easy-to-read buttons enable quick transition from one source to the next, along with zoom control for live virtual sets. LC-11 complements TriCaster users interface and gives more flexibility in any production environment.



TriCaster 850 TW

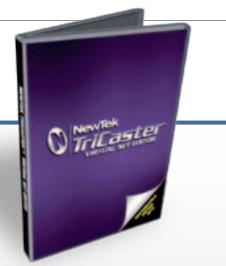
TriCaster[™] 850 TW gives control over all media playback capabilities, including one channel instant replay. TriCaster 850 TW works seamlessly with TriCaster 850 EXTREME, TriCaster 850. TriCaster 450 EXTREME. TriCaster 450 and TriCaster 300. TriCaster 850 TW may be used as a companion to the TriCaster 850 CS control surface. Each control surface can be operated independently giving the possibility to have a workstation dedicated to media players and replay control.

This flexible control surface provides normal and fast jog modes, a T-bar for dynamic speed replay, preset buttons, markin, mark-out controls to select clips.



TriCaster Virtual Set Editor (VSE)

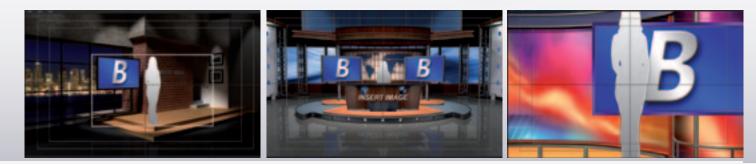
TriCaster™ Virtual Set Editor (VSE) provides a 12 virtual sets store and a virtual set editor to create, customize your own sets, import your own creation in PSD file.



production.

VSE is flexible to personalize your own sets without using long and complicated render.

Get real-time reflections with a wide range of elements you can edit for network-style sets. Create multisources compositions with VSE.

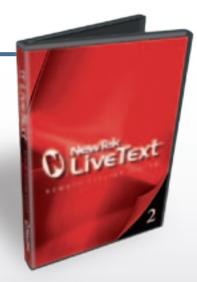




LiveText 2

LiveText 2[™] allows you to easily create and update titles and graphics on-the-fly during your live production. Connected to TriCaster via an Ethernet connection, this HD/SD multi-def titling software easily display real-time data, scores, times, and other fast-changing information during fast-pace

LiveText 2 gives the ability to share the workload and adds flexibility in your production. Whether preparing a large number of titles in pre-production on a laptop off-site or making last-minute changes during the show, LiveText makes your production run fast and smooth.





SpeedEDIT

SpeedEDIT is a resolution-independent video editor designed to work efficiently on any project. Get real-time up and down conversion, 3D position, size and rotation, interpolated slow motion. Support various resolution HD and SD on the same timeline and multi formats conversion in the same project.



During international sport games broadcast, you need to be on top of your production. 3Play proved to be more efficient than any other equipment (used as references on the market.

Ernesto Ascione, technical Director and Co-Owner, CAST Group.

BPIAL

3Play[™] product line is what producers were waiting for, powerful and affordable replay systems! All kinds of Sport events can now be broadcasted in slow motion, key element to appreciate and highlight a production. 3Play gives operators the ability to capture the action on every camera, to automatically archive the same action from various angles. Therefore, the director still has all his cameras angle shots for any selected action.

3Play Cinterwitet



TECHNICAL SPECIFICATIONS



3Play 820 Replay Reinvented Video Out NewTek 3Play[™] 820, a 10-channel (eight-in, two-out), slow motion system, includes proprietary NewTek IsoCorder[™] technology which provides the simultaneous display, recording and instant replay of up to eight video streams, each with up to quad channel audio. 3Play 820 offers a revolutionary price-performance value, which retails at a fraction of the price of current four-input, two-out devices on the Video For market. The two outputs work independently and can broadcast a slow motion or a playlist or any live input. A mode allows synchronizations of the 2 channels for simultaneous broadcast of 2 events.

- World-class, interpolated slow motion delivers smooth playback and ensures still frames are free of ghosting or blurring.
- Full support for a vast range of video and film formats.
- A second display may be used as an ISO monitor bridge including Heads Up Display (HUD).
- Easy import and export of a wide variety of popular media file types.
- Multiple playlists, including transitions, sound tracks and more.
- Linear timecode (LTC) support for synchronized capture of live action and efficient post production.
- Capture content from live video inputs to the destination drives of choice with support for writing a single channel to two simultaneous drives for fail safety when required.
- Compact 4U rack mount design includes always on-air, multi-tiered fail-safe systems and redundant hardware.
- Premium hardware control surface.

3Play

820 **3PLAY**

Video Inputs	8 simultaneous inputs - Any combination of: HD-SDI, HD Component, SD-SDI, SD Component, Composite, or Y/C (BNC)	485 mm
Video Outputs	2 fully independent, simultaneous playout channels - HD-SDI, HD Component, SD-SDI, SD Component, Composite, or Y/C (BNC) AUX output - HDMI output - Dedicated DVI multi- view output	180 mm 180 mm 180 mm 180 mm 180 mm 180 mm
Video Formats	Multi-Standard: PAL 1080/25p, 1080/50i, 720/50p, 720/25p, 576/25i, NTSC-J NTSC: 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i Supports 16:9 and 4:3 aspect ratios	ABOVE
Audio Inputs	8 SDI Embedded - 8 AES3/EBU - 8 x 2 Balanced XLR (Mic/Line)	
Audio Outputs	3 SDI Embedded - 2 AES3/EBU - 4 Balanced XLR outputs (PGM) - 4 Balanced XLR outputs (AUX)	450 mm 502 mm
Audio Processing	Audio is uncompressed and sampled at 96kHz, 32-bit	
Recording Capacity	200 hours of combined 1080i storage across 4 removable drives (50 hours per drive)	32 mm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Genlock	Locks to HD or SD analog signals - Supports either tri-level or bi-level sync sources	SIDE
A/V Standards	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	32 mm 20 mm 450 mm 15 mm

3PLAY 425

3Play 425	Replay in Compact Version	Video Inputs	4 simultaneous inputs - Any combination of: HD-SDI, HD Component, SD-SDI, SD Component, Composite, or Y/C (BNC)	483 mm
NewTek 3Play [™] 425, a 6-channel, four-input, two-output, slow motion syste simultaneous display, recording and instant replay of up to four video source highlights authoring on-the-fly to producers looking for a serious, profession. The two outputs work independently and can broadcast a slow motion or a serious.	es. NewTek 3Play 425 , a compact, turnkey solution, provides in-game al replay system.	Video Outputs	2 fully independent, simultaneous playout channels - HD-SDI, HD Component, SD-SDI, SD Component, Composite, or Y/C (BNC) - HDMI output - Dedicated HDMI multi-view output - Network output for over-the- network input to TriCaster	370aur 85 mm 20/15 mm 35 mm
The two outputs work independently and can broadcast a slow motion or a pla 2 channels for simultaneous broadcast of 2 events. 3Play 425 includes over-the-network integration with NewTek TriCaster [™] , appearing as a network input. The two outputs and the two iVGA channels	 Native HD/SD resolution (up to 1080p). Integrated multi-view monitoring with Heads Up Display (HUD). 	Video Formats	Multi-Standard: PAL 1080/25p, 1080/50i, 720/50p, 720/25p, 576/25i, NTSC-J NTSC: 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i Supports 16:9 and 4:3 aspect ratios	423 mm
can be linked without using any other video output. The paired 3Play 425 and TriCaster provide a complete integrated solution for live sports production with a small footprint.	 Quick and easy import and export of media. Compact 2U rook mount design with multi-tiored hardware and software 	Audio Inputs	4 SDI Embedded - 3 x 2 Balanced 1/4" (Mic/Line) - 1 x 2 Balanced XLR (Mic/Line)	480 mm
 Simultaneous display and synchronized, continuous recording of up to 	 Compact 2U rack mount design with multi-tiered hardware and software fail-safe systems. 	Audio Outputs	2 SDI Embedded - 1 x 2 Balanced XLR - 1 x 2 Balanced 1/4"	480 mm 545 mm
four live video sources. Network-quality presentation, including 	Premium hardware control surface.	Audio Processing	Audio is uncompressed and sampled at 96kHz, 32-bit	
interpolated slow motion and multi-angle switching during live playback.		Recording Capacity	More than 30 hours of combined 1080i storage across internal drive and removable drive (15+ hours per drive) - MPEG-2 all I-frame	30 mm + 413 mm 35mm
 Instant, in-game creation of playlists and highlight reels with transitions and soundtracks. 	3Play	Genlock	Locks to HD or SD analog signals - Supports either tri-level or bi-level sync sources	<i>SIDE</i> 20 mm 510 mm 15 mm
 Team with TriCaster over Gig-E network to maximize production resources and distribution. 	Let with The State	A/V Standards	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	
 Independent audio routing for every input (e.g. assign broadcast audio or natural sound to a specific camera angle). 				

3PLAY 425

LightWave[®] 11 MODEL ANIMATE RENDER

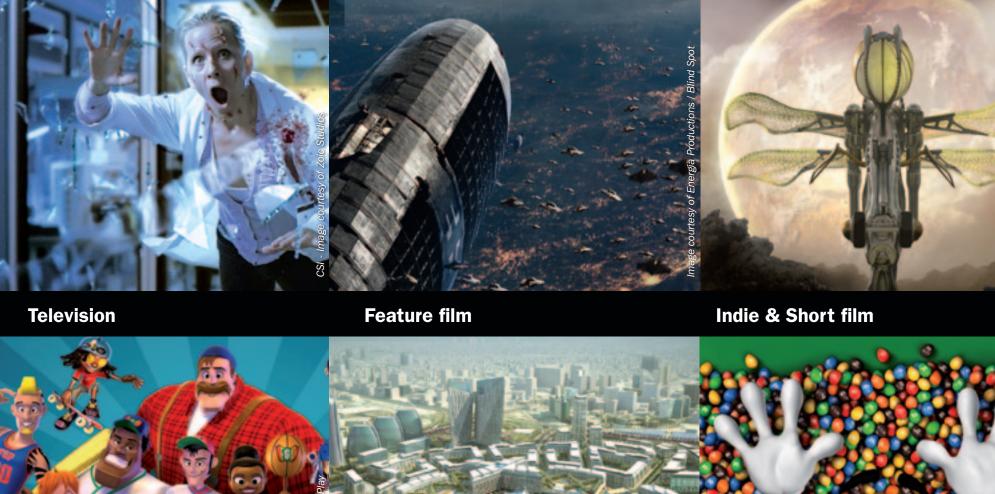


LightWave MODEL • ANIMATE • RENDER

With a state-of-the-art renderer and powerful, intuitive modeling and animation tools, NewTek LightWave 3D® is VFX and animation software with a proven, award-winning track record. LightWave is designed to support the creative process, providing the artist with the ability to interact in real time with 3D content, to work seamlessly with the full range of software applications in production pipelines and to render on unlimited render nodes. LightWave is enjoyed worldwide as a complete 3D production solution for visual effects in film, television, broadcast graphics, print, games, visualization and the Web. LightWave artists have won more Emmy® Awards for visual effects and animation than any other CG artists.

A simple setup for replicating realistic skin with a proprietary model for the subsurface scattering shader that works fully with the VPR

LIGHTWAVE





Games & Software

Architecture & Design

Print graphics

Interactive D

Viewport Pre (VPR) enhand

New Skin Sha

New Off-axis option

Linear Color

Data Interch

MDD with po enhancement for Autodesk

FBX

COLLADA

Improved ZB

Improved OB

New Immers

Support for th VCam virtual used in featu Departments

Support for 3 of 3D mouse

SpriteGen

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Display and Renderin	g Tools	LightWave 11 Enhancements		
review Renderer ancements	Support for Clip Maps in the VPR render, Object Dissolve and Distance Dissolve in VPR and Nodal	Instancing	Mass duplication of objects in a scene, with very little overhead. Ability to have huge 'virtual' polygon counts.	
Shader node	Shaders, plus Limited Region enhancements. Simple setup for replicating realistic skin with a pro- prietary model for the subsurface scattering shader that works fully with the VPR.	Flocking	Calculate crowd avoidance, target alignment and cohesive attractions, to create realistic natural: Flocks of Birds, Schools of Fish, Swarms of Insects, Animal Herd Behaviors, Craft Maneuvers	
is Camera Rig	Supports all three of the major stereoscopic camera rig types (Parallel, Toe-in and Off-axis).	Fracture	Compliment Bullet dynamics in LightWave Layout. Pre-fracture objects ready for destruction. Create an Endomorph of the	
or Space Workflow	Supports consistent gamma, color space and custom Look Up Tables (LUTs) for more realistic lighting and to maximize compositing flexibility in a professional		resulting fracture; animate the explosion, with or without using dynamics. Apply Weight maps to the source object to control the density	
	pipeline.	Bullet Dynamics	Bullet dynamics engine directly in Layout can be used with the new Fracture tool in Modeler to create compelling physics-based	
change Enhancements			animation, like collapsing buildings, explosions	
powerful new ents include support sk Geometry Cache	Freedom to move deformations and transforms between applications allowing for an extremely flexible, extensible pipeline for animation, dynamics, effects, and rendering.	Virtual Studio Tools	Use third party controllers to animate items in your scene such as Playstation [®] Move. These third party controllers use the new SDK available for the Virtual Studio Tools, to hook into the system directly. Using the Node Editor, the data can be edited in the Graph	
	Load and save camera data, lighting, objects with UV		Editor, letting you hand edit any live-captured performances.	
	Easy transfer of camera data, lights, object placement, image maps, etc., from one application to another.	Interchange Tools	GoZ [™] is an interchange technology from Pixologic [®] , that allows applications to send model and texture data to and from ZBrush [™] for sculpting detail on a base mesh.	
Brush Interchange	Easy transfer and manipulation of UV maps from ZBrush.	Render Buffer Enhancements	Saving and viewing the various buffers produced by the render engine to make up an image, Select which objects are to be included with the buffers, select which buffers are to be exposed	
BJ UV Support	Delivers the ability to import and export any number of UV maps.		for saving or viewing.	
sive, Real-Time and G		Python Scripting	Inclusion of Python in LightWave 11 for further integration of LightWave into studio pipelines.	
the InterSense al camera system ture film Virtual Art ts (VAD)	Gain a true "on location" experience through interac- tion with massive 3D scenes in real time with control of light placement and camera directly in your 3D application.	FiberFX Enhancements	 New volume rendering mode Instance Info node now works to change colour on FiberFX instances in Solid volume type Added support for nodal colour input to the stroke or ribbon type 	
3Dconnexion line Se	Move through the virtual world and interact with models and scenes controlling cameras and lights in real time.	in of volume rendering • Add nodal colour UV te rendering, including sm • Add nodal colour UV te fibers, including smoot • Add alpha input into Fil	 of volume rendering Add nodal colour UV texture mapping support for volume stroke rendering, including smoothing Add nodal colour UV texture mapping support for rasterized 	
	Automates creation of sprite animation images for real-time and game engines.		 fibers, including smoothing Add alpha input into FiberFX node editor Add alpha mapping support for texture mapping 	

Ø 3D STORM



A list of authorized LightWave 3D Training Centers is available on www.newtek-europe.com. 3D Storm offers high end bespoke training for 3D VirtualSets design for TriCaster and LightWave3D modeling, animation and rendering. Our trainings can be combined with production and while learning the techniques you may apply them to one of your projects. Contact our sales department to organize your next training session.

Warrantv

All NewTek products come with a warranty. For detailed information check the "warranties and return policy" on NewTek website. Anytime during your original warranty coverage period, you may contact 3D Storm to inquire about extended service plan for an additional coverage period.

3D Storm, major actor in the broadcast and video industry, is the exclusive distributor of NewTek products for Europe, Middle-East, Africa, Turkey, Russia and Pakistan. **3D Storm** products include TriCaster, 3Play and LightWave as well as a wide range of accessories, titling and virtual creation tools.

Recognized by the cinema and television industry, **3D Storm** provides a wide range of production equipment as well as training services on NewTek solutions and softwares.

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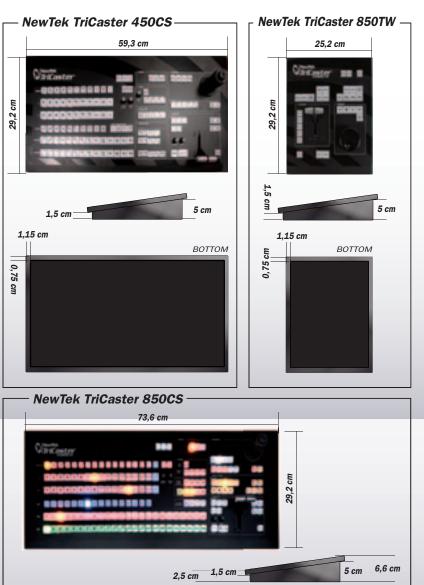


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34 NEWTEK 2012 CATALOG COMPARATIVE TABLE

	TriCaster 850 Extreme	TriCaster 850	TriCaster 450 Extreme	TriCaster 450	
Supported Standards	1080/25p, 1080i, 720p, 576i, 480i	Number of channels			
Number of inputs	8	8	4	4	
Number of Virtual inputs	8	8	4	4	Supported standards
Video Projector output	DVI & HDMI	DVI & HDMI	DVI & HDMI	DVI & HDMI	Included Control Surface
Multi preview	Yes	Yes	Yes	Yes	Thus A . I
Mix HD and SD sources	Yes	Yes	Yes	Yes	Time Code
Web Streaming	Flash, WMV, up to 720p	Record Formats			
Virtual sets	Yes, animated zoom	Yes, animated zoom	Yes, animated zoom	Yes, animated zoom	Decoud Assesta
Chromakeyer	LiveMatte HD	LiveMatte HD	LiveMatte HD	LiveMatte HD	Record Capacity
DSK with DVE3D	2+1	2+1	2+1	2+1	Multi-format file import/
Animation store transitions	Yes	Option	Yes	Option	export
Real time Titling HD/SD	Yes	Yes	Yes	Yes	Transitions
Video DDR	2	2	2	2	
Record HD	Up to 8 channels - ISOCORDER	PGM or Aux	Up to 4 channels - ISOCORDER	PGM or Aux	Soundtrack
Record Stream	Yes	Yes	Yes	Yes	Multi preview (DVI out)
External Computer display in PC & Mac	2 iVGA	2 iVGA	2 iVGA	2 iVGA	Network
Apple Airplay Support	Yes	Yes	Yes	Yes	
PGM freeze frame	Yes	Yes	Yes	Yes	HD Removable bays
Input PROC Amps	Yes, All Channels	Yes, All Channels	Yes, All Channels	Yes, All Channels	Multi-tiered Fail safe mode
Vectorscope /Waveform	Yes (colour)	Yes (colour)	Yes (colour)	Yes (colour)	Multi-standard PAL/NTSC
Editing Software	Yes	Yes	Yes	Yes	
Multi-Standard PAL/NTSC	Yes	Yes	Yes	Yes	Audio
Time Code	Yes, LTC	Option	Yes, LTC	Option	Genlock in
Genlock in	Yes	Yes	Yes	Yes	
Alpha channel	In/Out	In/ Out in option	In/Out	In/ Out in option	Rackmount (optional rack
Tally	Yes (db15)	Yes (db15)	Yes (db15)	Yes (db15)	rails)
Audio Input	SDI embedded, AES and Analog	Weight			
EQ / compressor /limiter	Yes	Option	Yes	Option	
Rackmount (optional rack rails)	4U	4U	2U	2U	Dimensions
Weight	19 Kg /42 lbs	19 Kg / 42 lbs	13 Kg / 28 lbs	13 Kg / 28 lbs	
Dimensions	W 485 x H 180 x D 517 (mm)	W 485 x H 180 x D 517 (mm)	W 483 x H 85 x D 545 (mm)	W 483 x H 85 x D 545 (mm)	Specifications

	3Play 820	3Play 425
	8 In – 2 Out	4 In – 2 Out
	1080/25p, 1080i, 720p, 576i, 480i	1080/25p, 1080i, 720p, 576i, 480i
)	820CS	425CS
	Yes, LTC	Yes, LTC
	MPEG-2 VBR, I-Frame	MPEG-2 VBR, I-Frame
	200 hours	30 hours
	Yes	Yes
	Gbit Ethernet	Gbit Ethernet
	4	1
de	Yes	Yes
С	Yes	Yes
	SDI embedded, AES and Analog	SDI embedded, AES and Analog
	Yes	Yes
k	4U	2U
	19 Kg /42 lbs	13 Kg / 28 lbs
	W 485 x H 180 x D 517 (mm)	W 483 x H 85 x D 545 (mm)



Specifications subject to change without notice.

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DIMENSIONS

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