

Video Mix Engine

Technical Specifications

Local Video Input	4 x 3G/HD/SD-SDI inputs
Network Video Input	44 x IP inputs via NDI™, resolution-independent, with support for key and fill
PTZ Video Input	8 x PTZ inputs supporting serial and network protocols, including RS232, RS422 and IP
Local Video Output	4 x 3G/HD/SD-SDI outputs 4 x multiviewer outputs <ul style="list-style-type: none"> • 1 x DVI user interface with multiviewer • 1 x DVI multiviewer • 1 x Displayport multiviewer • 1 x HDMI multiviewer
Network Video Output	4 x IP mix outputs via NDI 4 x IP source outputs via NDI 4 x IP media player outputs supporting embedded alpha channel via NDI 15 x IP media buffer outputs supporting embedded alpha channel via NDI 8 x IP internal router outputs via NDI
Live Streaming	1 x configurable streaming video output with simultaneous stream archive
Mix/Effect Buses (M/E)	8 x M/E buses supporting video re-entry <ul style="list-style-type: none"> • 1 x Mix/Effect channel per bus with support for up to 4 sources • 4 x KEY layers per bus • 9 x memory slots per bus • 1 x PREVIZ configuration and preview bus
DSK Channels	4 x DSK channels
Media	5 x media players <ul style="list-style-type: none"> • 4 x DDR • 1 x Sound 15 x media buffers <ul style="list-style-type: none"> • 10 x animation buffers • 5 x graphic buffers 55 x clip players (available for use as transitions or media depending on function)
Keyers	Integrated LiveMatte™ chroma and luma keying technology on all source channels and M/E buses <ul style="list-style-type: none"> • 44 x input keyers • 4 x media player keyers • 8 x M/E keyers • 15 x buffer keyers
COMPs	Integrated video composition engine on the switcher and each M/E bus to create, store, and apply layer configurations and DVE-style motion sequences <ul style="list-style-type: none"> • 16 x configurable COMP presets per bus
Virtual Sets	Integrated LiveSet™ technology with 30+ live virtual sets and box effects included
DataLink	Integrated DataLink™ technology enabling real-time, automated data input from internal and external sources, including webpages, spreadsheets, scoreboards, databases, RSS feeds, watch files, XML, CSV, ASCII and more
Macros	Record, store, edit and automate commands and user-configured operation sequences <ul style="list-style-type: none"> • Attach to control panel buttons, keyboard shortcuts, hotspots, MIDI and X-keys buttons or GPI triggers • Attach to internal events and state changes, including audio, media playback, tally and specific switcher actions • Supports control via web-based interface

Subject to change without notice.

For complete technical specifications, please visit the IP Series page at www.newtek.com. International pricing and availability may vary. Please email sales@newtek.com for details.

Rev. 3

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Recording	<p>4 x configurable video recording channels via IsoCorder™ technology</p> <ul style="list-style-type: none"> • 4 x QuickTime®* archival video recorders (XDCAM HD compatible, 4:2:2 encoding, 24-bit audio) • 1 x MP3 audio recorder <p>* QuickTime Player not required for playback in common NLE applications</p>
Storage	<p>2 x 3TB internal drive</p> <ul style="list-style-type: none"> • Capacity varies by format, resolution and file specification • Supports recording to external storage via USB 3.0 and eSATA • Supports shared storage integration and third-party partner solutions
Grab	Grab full resolution, de-fielded still images from external video sources and outputs
Export	Export video and image files to social media, FTP, local or external volumes, and network servers, with optional transcoding
Audio Mixer	Integrated multi-channel audio mixer with support for 8-channel audio, DSPs and 4x8x8 audio input routing
Local Audio Input	<p>4 x SDI embedded</p> <p>1 x Balanced XLR stereo pair (Line)</p> <p>3 x Balanced 1/4" stereo pairs (Line)</p>
Local Audio Output	<p>4 x SDI Embedded</p> <p>1 x Balanced XLR stereo pair</p> <p>1 x Balanced 1/4" stereo pair</p> <p>1 x Stereo 1/4" (phones)</p>
Network Audio	<ul style="list-style-type: none"> • Native support for network audio input and output via NDI • Embedded audio supported for all NDI input and output video signals • Integrated support for Dante™* networking protocol from Audinate® <p>* Requires Dante Virtual Soundcard license from Audinate (sold separately)</p>
Supported Session Formats	<ul style="list-style-type: none"> • 1080p 59.94, 1080p 50, 1080p 29.97, 1080p 25, 1080p 24, 1080p 23.98 • 1080i 59.94, 1080i 50 • 720p 59.94, 720p 50, 720p 29.97, 720p 25, 720p 24, 720p 23.98 • 576i 25 • 480i 59.94
Supported Media File Formats	<p>Import, store, and play back multimedia files, with optional transcoding, including:</p> <ul style="list-style-type: none"> • Video: AVI, DV, DVCPro, DVCProHD, FLV, F4V, H.263, H.264, MOV, MKV, MJPEG, MPEG, MP4, WMV, WebM, and more • Image: PSD, PNG, TGA, BMP, JPEG, JPEG-XR, JPEG2000, EXR, RAW, TIF, WebP, and more • Audio: AIFF, MP3, WAV, and more
Monitoring	Support for up to 4 multiviewer displays with configurable workspaces and viewports
Signal Monitoring	Integrated waveform and vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 709
Processing	<p>Video: Floating Point YCbCr +A 4:4:4:4</p> <p>Audio: Floating Point, 96 kHz</p>
Throughput Latency	~1.0-1.5 frames
A/V Standards	<ul style="list-style-type: none"> • 3G-SDI video conforms to SMPTE 424M (Level A) • HD-SDI video conforms to SMPTE 292M • SD video conforms to SMPTE 259M and ITU-R BT.656 • Analog audio levels conform to SMPTE RP-155
Tally	Support for hardware tally via HD15 GPI connector, network tally via NDI, and Blackmagic Design® SDI tally standard
Genlock	Genlock input supporting SD (Bi-level) or HD (Tri-level) reference signals
GPI	Supports GPI signals via JLCooper Electronics eBox GPI interface
MIDI	Support for standard MIDI protocol enabling third-party device control
System Drive	120GB SSD
NIC	<ul style="list-style-type: none"> • 2 x 10 Gigabit NIC • 2 x 1 Gigabit NIC
System Physical	<p>2RU chassis with 400W PSU and multi-tiered hardware and software fail-safe</p> <ul style="list-style-type: none"> • 19.0 x 3.5 x 19.57 in (48.3 x 8.9 x 49.7 cm) with rack ears attached • 26.25 lbs (11.91 kg)