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| Video Input | 32 x simultaneous external video inputs, supporting any combination of compatible sources in resolutions up to UHD at frame rates up to 60fps (2160p 59.94) |
| Network Video Input | 32 x IP inputs via NDI®, resolution-independent, with support for key and fill |
| SDI Video Input ¹ | <p>8 x 3G/HD/SD-SDI connections supporting video input in any combination of standard formats, resolutions, and frame rates²</p> <ul style="list-style-type: none"> • 1080p: 59.94, 50, 29.97, 25 • 1080i: 59.94, 50 • 720p: 59.94, 29.97, 25 • 576i 50 • 480i 59.94 <p>¹ Optionally supports up to 32 simultaneous 3G/HD/SD-SDI video inputs or quad-link 3G-SDI video inputs (4K UHD) via network integration with NewTek NC1 conversion modules ² Available frame rates determined by session video standard (NTSC or PAL)</p> |
| PTZ | Support for up to 32 simultaneous Pan-Tilt-Zoom (PTZ) robotic cameras via serial and network protocols, including RS232, RS422 and IP, with integrated controls and preset system |
| Conference Calling | Support for multiple simultaneous video call inputs with Microsoft Skype TX, Microsoft Teams™, Zoom Meetings™, Slack, Discord™, and Tencent™ software integration using the Live Call Connect feature, |
| Video Output | Configurable for up to 8 independent HD or 2 UHD video mix outputs, with simultaneous delivery via IP and SDI |
| Network Video Output | <p>48 x IP outputs via NDI® (HD and SD sessions only)</p> <ul style="list-style-type: none"> • 8 x video mix outputs in resolutions up to 1080p at frame rates up to 60fps (1080p 59.94) or 2 x UHD video mix outputs at up to 60 frames per second (2160p 59.94) • 8 x direct IP source outputs via NDI® translation of local SDI inputs or 2 x upconverted UHD outputs at up to 60 frames per second (2160p 59.94) • 4 x direct IP source outputs via NDI® translation of media players, with support for embedded alpha channel • 15 x direct IP source outputs via NDI® translation of media buffers, with support for embedded alpha channel • 3 x Multiviewer outputs (if 3 monitors are connected). 4K support on 2x Multiviewer outputs while the 3rd outputs in HD • 1 x User Interface with dedicated multiviewer • 1 x teleprompter output (LiveStory™ Creator) • 8 x selectable IP outputs via internal NDI® matrix router |
| SDI Video Output | <p>8 x 3G/HD/SD-SDI connections, optionally configurable for:</p> <ul style="list-style-type: none"> • 8 x independent 3G/HD/SD video mix outputs supporting standard NTSC and PAL formats, resolutions, and frame rates³ • 2 x UHD video mix output via 3G-SDI quad-link grouping, supporting frame rates up to 60fps (2160p 59.94) <p>³ Available frame rates determined by session video standard (NTSC or PAL)</p> |
| Stream Output | 2 x resolution-independent streaming video outputs, independently configurable, with simultaneous stream recording. Support for SRT streaming has been enabled. |
| Multiviewer Output | <p>4 x multiviewer outputs supporting standard display resolutions, using any combination of available connections. Support for 4K on 2x DisplayPorts</p> <ul style="list-style-type: none"> • 1 x HDMI • 3 x DisplayPort |
| Mix/Effect Buses (M/E) | <p>8 x M/E buses supporting video re-entry</p> <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 <p>1 x PREVIZ configuration and preview bus</p> |
| DSK Channels | 4 x DSK channels |
| Media | <p>5 x media players</p> <ul style="list-style-type: none"> • 4 x DDR • 1 x Sound <p>15 x media buffers</p> <ul style="list-style-type: none"> • 10 x animation buffers with GIF support • 5 x graphic buffers |
| Keyers | <p>Integrated LiveMatte™ chroma and luma keying technology on all source channels and M/E buses</p> <ul style="list-style-type: none"> • 32 x input keyers • 4 x media player keyers • 8 x M/E keyers • 1 x PREVIZ keyer • 15 x buffer keyers |
| COMPs | <p>Integrated video composition engine on the switcher and each M/E bus to create, store, and apply layer configurations and DVE-style motion sequences</p> <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 | <p>Record, store, edit and automate commands and user-configured operation sequences</p> <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 |

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| Recording | 32 x total video recording channels <ul style="list-style-type: none"> • 8 x configurable M/E channels for HD or 2 x for UHD • 8 x physical SDI inputs • 4 x DDR's • 2 x streaming encoders • Support for growing file playback from DDR's • Instant Replay capability on each input • 32 x total configurable inputs |
| Storage | 4TB Media Storage (4 x 1 TB SSD in RAID 0) <ul style="list-style-type: none"> • Quantity varies by format, resolution and file specification • Supports recording to external storage via 7 USB 3.2 type A, and 1 USB 3.2 type C, 1 USB 2.0 2(Gen2, Type A) • Supports shared storage integration and third-party partner solutions |
| Grab | Grab full resolution, deinterlaced still images from external video sources and outputs |
| Export | Export video and image files to social media, FTP, local or external volumes, and network servers, with optional transcoding |
| Audio | 16 channels of audio passthrough Integrated multi-channel audio mixer with support for 8-channel audio, DSPs and 4x8x8 audio input routing |
| Local Audio Input | <ul style="list-style-type: none"> • 8 x SDI embedded • 1 x Balanced XLR stereo pair (Line) • 3 x Balanced 1/4" stereo pairs (Line) |
| Local Audio Output | <ul style="list-style-type: none"> • 8 x SDI Embedded • 1 x Balanced XLR stereo pair • 1 x Balanced 1/4" stereo pair • 1 x Stereo 1/4" (phones) |
| Network Audio | <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 support⁵ for Dante™ networking protocol from Audinate® • Support for AES67 protocol via compatible WDM audio drivers⁶ <p>⁵ Requires Dante Virtual Soundcard license from Audinate (sold separately) ⁶ Requires third-party virtual sound card license (sold separately)</p> |
| Supported Media File Formats | Import, store, and play back multimedia files, with optional transcoding, including: <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. Support for 4K on 2 multiviewers while the other 2 multiviewers output in HD. |
| Signal Monitoring | Integrated waveform and vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 709 |
| Processing | <ul style="list-style-type: none"> • Video: Floating Point YCbCr +A 4:4:4:4 • Audio: Floating Point, 96 kHz |
| Throughput Latency | ~1.0-1.5 frames |
| A/V Standards | <ul style="list-style-type: none"> • UHD video conforms to SMPTE 2036 (UHDTV1 using Square Division Quad Split) • 3G-SDI video conforms to SMPTE 424M (Level A) • HD-SDI video conforms to SMPTE 292M • SD video conforms to SMPTE 259M and ITU-R BT.656 • Analog audio levels conform to SMPTE RP-155 |
| Tally | Support for hardware tally via HD15 GPI connector, network tally via NDI®, and Blackmagic Design® SDI tally standard |
| Genlock | Genlock input supporting SD (Bi-level) or HD (Tri-level) reference signals |
| GPI | Supports GPI signals via JLC Cooper Electronics eBox GPI interface |
| MIDI | Support for standard MIDI protocol enabling third-party device control |
| System Drive | 250GB SSD |
| NIC | <ul style="list-style-type: none"> • 1 x 10 GbE NIC • 1 x 1 Gigabit NIC |
| System Physical | 3RU chassis with 650W redundant PSU and multi-tiered hardware and software fail-safe <ul style="list-style-type: none"> • 19.0 x 5.25 x 19.57 in (48.3 x 13.34 x 49.7 cm) with rack ears attached • 34 lbs (15 kg) |

Subject to change without notice.