

Release 3.26 highlights:

- Support of NDI V5
Ingest and Playout of NDI V5 streams. Static configuration of NDI streams (no auto-discovery support yet)
- MP4 as HiRes ingest format
MP4 can now be selected as HiRes recording format.
- Java8 to OpenJDK 11 migration
Migration from Java8 (Java native, "at a charge" framework) to OpenJDK (open source implementation of Java platform)
- Support of Matrox XMIO5\8\550 cards and Matrox 10.3 SP1 drivers
Brio 3.26 can now be installed on Brios mounting Matrox XMIO5\8\550 cards and is fully compatible with Matrox 10.3 SP1 drivers

From previous recent releases:

- Scrubbing and Frame accurate seeking for XAVC Long GOP formats
- Avid Copier: Association of proxy and high resolution
- Ingest Scheduler: Support Quartz protocol for Router Controller
- Ingest Scheduler: TC option in read-only when creating a job
- Add Closed Captions marker and Local TC in Mosaic Streaming overlay
- Display Filename in confidence monitoring
- Router controller: Reload the configuration from video router
- Imagine IP3 router control via LRC

Configuration

Reconfigurable models with frame synchronizers on inputs and UHD support	On-board Storage Configurations
<p>SDI</p> <ul style="list-style-type: none"> • Brio 4 – 4 reconfigurable i/o multi-rate SD/HD/3G/12G SDI • Brio 6 – 6 reconfigurable i/o multi-rate SD/HD/3G/12G SDI (software upgrade to 8 and 12) • Brio 8 – 8 reconfigurable i/o multi-rate SD/HD/3G/12G SDI (software upgrade to 12) • Brio 12 – 12 reconfigurable i/o multi-rate SD/HD/3G SDI <p>IP</p> <ul style="list-style-type: none"> • 8in/8out IP high density for SMPTE ST-2110 (HD/FullHD/QFHD) only • 4in/4out IP high density for SMPTE ST-2110 (HD/FullHD/QFHD) only • Brio IP Flex – Flexible and multi-rate SD/HD/3G with SMPTE-2022-2 and Newtek NDI connectivity 	<ul style="list-style-type: none"> • 3.2TB - 133 hours @50Mb/s • 6.6TB - 266 hours @50Mb/s • 9.8TB - 400 hours @50Mb/s • 13TB - 530 hours @50Mb/s • 19,6TB - 800 hours @50Mb/s <p>Additional local/shared storage available upon request.</p>

Codec/Wrapper

Wrappers	HD (720p50/59.94, 1080i50/59.94, 1080psf23.98, 1080p23.98, 1080p50/59.94)
<ul style="list-style-type: none"> • MXF Op1a, MXF Op Atom • QuickTime Reference, QuickTime Self-Contained • MP4, AVI, MPG, WMV 	<ul style="list-style-type: none"> • DVCPProHD • XDCAM HD - 4:2:0 (18-25-35 Mb/s) - 4:2:2 (50 Mb/s) • Avid DNxHD® 120/145 (8-bit), 185/220 (8-bit), 185x/220x (10-bit) • Apple ProRes 422LT-422-422HQ • AVC-Intra Class 50/100 • Sony XAVC Intra and Long GOP • Panasonic AVC-LongG • MPEG-4 H.264/AVC • MPEG-2@HL - 4:2:0 I-Frame 5-80 Mb/s - 4:2:2 Long GOP 5-300 Mb/s • FFV1 (Ingest only) • Uncompressed
Proxy	
<ul style="list-style-type: none"> • MP4 H264/AAC - Configurable profile/level/GOP size/bitrate/resolution • WMV • DALET MPEG-2 Proxy • MPEG-DASH 	
SD (PAL,NTSC)	UHD (up to 60p)
<ul style="list-style-type: none"> • DV25, DV50, DVCPPro25, DVCPPro50 • D10 IMX 30-40-50 • MPEG-2@ML - 4:2:0 I-Frame 2-15 Mb/s - 4:2:2 Long GOP 10-50 Mb/s 	<ul style="list-style-type: none"> • Apple ProRes 422LT-422-422HQ • Sony XAVC 4K Intra Class 300 and 480 (CBG and VBR), XAVC Long GOP 200 • Avid DNxHR® (HQX, HQ, SQ, LB)

General Specifications

Video Specifications	Video Over IP specifications	Redundancy
<ul style="list-style-type: none"> SD SDI: SMPTE ST-259M, ITU-R601, 525/625-line component, 10-bit HD-SDI: SMPTE ST-292M, 10-bit 3G-SDI: SMPTE ST-424M, 10-bit 75 Ohms BNC ITU-R BT.601 (data and electrical) 	<ul style="list-style-type: none"> SMPTE ST-2110 SMPTE ST-2022-7 SMPTE ST-2059 for PTP NEWTEK NDI v5 RTMP RTMPS (playback only) SRT SMPTE ST-2022-2 	<ul style="list-style-type: none"> Dual hot swappable power supplies RAID1 for system drives, RAID50 or RAID6 for data drives Hot spare drives Dual 10Gb and Quad 1 Gb Eth network attachment Dual FC attachment
Dynamic Conversions	Dimensions	Connectivity
<ul style="list-style-type: none"> Output: PAL <-> 1080i50 & PAL <-> 720p50 Output: NTSC <-> 1080i59.94, NTSC <-> 720p59.94 Output: 720p59.94 -> 1080p59.94 Input: PAL -> 1080i50& NTSC -> 1080i59.94 Input: SMPTE 2110 720p -> 1080p Aspect ratio: AFD and WSS support (per channel) 	<ul style="list-style-type: none"> Width: 44.55 cm (17.54 in.) Height: 2 RU 8.9 cm (3.5 in.) Depth: 74.93 cm (29.5 in.) Weight: 28 kg (60 lbs.) maximum 	<ul style="list-style-type: none"> Four 100/1000Base-T Ethernet ports and Two 10Gb Ethernet One USB 3.0 front, two USB 3.0 rear 4 mini-display ports 2 fiber optics ports for HBA (optional) Multi-serial ports board (optional)
Audio Specifications	Closed Caption specifications	File transfer protocols
<ul style="list-style-type: none"> Input: 48 kHz, 16-bit, 20-bit or 24-bits digital audio PCM Audio clock genlocked to video ref (SMPTE 272M and AES11-1997) Video clip with supported audio format can be played back-to-back Dolby-E pass-through. 	<ul style="list-style-type: none"> Preservation of Captions in ingest and playout (CEA-608/708, OP-42/47) OP-42/47 insertion from STL 	<p>CIFS, FTP, Amazon S3 (or S3 compatible storage), Interplay</p>
Reference Genlock characteristics	Special Modes	
<ul style="list-style-type: none"> Analog black burst reference (tri-level or bi-level), SDI input as reference or free running mode. Sub-pixel adjustment at 0.9 ns/step with respect to genlock in SD Sub-pixel adjustment at 0.7 ns/step with respect to genlock in HD Flywheel on genlock 	<ul style="list-style-type: none"> Slow motion Video + key 2D Graphics engine on each output channel Loop recording with extraction and time delay Ingest Once Write Many 	
Embedded audio tracks	Timecode	Power requirements
<ul style="list-style-type: none"> 16 tracks embedded per channel SDI (8AES-EBU) Supports SDI embedded audio compliant with SMPTE 272M (SD) and SMPTE 299M (HD). 	<ul style="list-style-type: none"> VITC file reader/writer (ANC-TC) with 1 mini XLR 	<ul style="list-style-type: none"> Dual redundant Power supply 800W hot swap 50-60 Hz, 100-240 VAC
Control	Discrete AES/EBU audio tracks	Environmental characteristics
<ul style="list-style-type: none"> VDCP over serial and IP FIMS Capture v1.1 and FIMS Transfer v1.3 - RESTful implementation Administration, Players, Ingest Scheduler API (RESTful) AMWA NMOS IS-04 v1.3 (incl. BCP-002-01), IS-05 v1.0.2, IS-08, IS-09 (audio mapping) support 	<ul style="list-style-type: none"> Brio 4/6/8/12: Pool of 32 tracks (16 for inputs, 16 for outputs) 	<ul style="list-style-type: none"> •Operating temperature: +10°C to +35°C Non-operating temperature (not in use): -30°C to +60°C
Video Preview	Monitoring	Video Playback
<ul style="list-style-type: none"> Customizable text overlay per channel Streaming multi-viewer for remote preview of multiple Brio channels in a web browser. 	<ul style="list-style-type: none"> SNMP Brio REST API 	<p>Any supported format can be played seamlessly back-to-back</p>



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