dalet brio

Datasheet Version 3.33

High-density ingest and playout

Release 3.33 highlights:

- Windows Server 2025 Image and HP DL380 Gen11 Support
  New on-prem image based on Windows Server 2025, running on HP DL380 Gen11 and existing Gen10/Gen10+ servers.
- IP Transcoding with the Matrox M264 Card Only
  IP transcoding workflows on the Matrox M264 card alone, without the XMIO5 card, supporting H.264 IP streams ingested over NDI.
- Brio Setup and Multiviewer Enhancements
  New Upgrade and Silent modes are available in the Brio Setup for improved experience on installations. Multiviewer gains custom channel labels.
- MPEG-DASH proxies for FIFO recordings in Ingest Portal
  A new MPEG-DASH proxy file can be generated to preview and extract content in Dalet Flex and Ingest Portal while the recording is running.

From previous recent releases:

- Increased Playout and Ingest Channels
- SFP Telemetry Monitor in Brio Web Portal
- 4K Upscaling with Deinterlacing on XMIO5
- Select Network Interface for Ingest Scheduler
- Customize number of channels x audio stream in 2110
- Software Interlacing for Playout
- Deinterlacing 1080i to 1080p During Ingest
- Enhanced ST2110 Ingest Resilience

Configuration

Reconfigurable models with frame synchronizers on inputs and UHD support	On-board Storage Configurations
SDI • 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 on High Profile boards) • Brio 8 – 8 reconfigurable i/o multi-rate SD/HD/3G/12G SDI (software upgrade to 12 on High Profile boards) • Brio 12 – 12 reconfigurable i/o multi-rate SD/HD/3G SDI **IP** • 12in/12out IP high density for SMPTE ST-2110 (HD/FullHD) only • 4in/4out IP high density for SMPTE ST-2110 (QFHD) only • Brio IP Flex – Flexible and multi-rate SD/HD with SMPTE-2022-2, NDI, SRT and RTMP connectivity	• 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 Additional local/shared storage is available upon request. Configurations for G11 may differ based on SSD capacity.

Codec/Wrapper

Wrappers	HD (720p50/59.94, 1080i50/59.94, 1080psf23,98, 1080p23,98, 1080p50/59.94)
• MXF Op1a, MXF Op Atom • QuickTime Reference, QuickTime Self-Contained • MP4, AVI, MPG, WMV	• DVCProHD • 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	
• MP4 H264/AAC - Configurable profile/level/GOP size/bitrate/resolution • WMV • DALET MPEG-2 Proxy • MPEG-DASH	
SD (PAL,NTSC)	**UHD (up to 60p)**
• DV25, DV50, DVCPro25, DVCPro50 • 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	• 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)

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General Specifications

Video Specifications

- SD SDI: SMPTE ST-259M, ITU-R601, 525/625-line component, 10-bit
- HD-SDI: SMPTE ST-292M
- 3G-SDI: SMPTE ST-424M, ST-425M-AB and SMPTE ST-425-5
- 6G-SDI: SMPTE ST-2081
- 12G-SDI: SMPTE ST-2082, ST-2082-12
- Simultaneous inputs and output of different video standards
- 75 Ohms BNC
- ITU-R BT.601 (data and electrical)

Video Over IP specifications

- SMPTE ST-2110
- SMPTE ST-2022-7
- SMPTE ST-2059 for PTP
- NEWTEK NDI v5
- RTMP
- RTMPS (playback only)
- SRT
- SMPTE ST-2022-2

Redundancy

- Dual hot swappable power supplies
- RAID1 for system drives, RAID50 for data drives (RAID10 in case of G11 with SSD)
- Hot spare drives
- Dual 10Gb and Quad 1 Gb Eth network attachment
- Dual FC attachment

Dynamic Conversions

- Output: PAL <-> 1080i50 & PAL <-> 720p50
- Output: NTSC <-> 1080i59.94, NTSC <-> 720p59.94
- Output: 720p59.94 -> 1080p59.94
- Output: 1080p 25/29.97 ->1080i 25/29.97
- Output: 1080i50 -> QFHD 50, 1080i60M -> QFHD 60M
- Input: PAL -> 1080i50& NTSC -> 1080i59.94
- Input: 1080i 25/29.97 -> 1080p 25/29.97
- Input: SMPTE 2110 720p -> 1080p
- Aspect ratio: AFD and WSS support (per channel)

Dimensions

- 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

Connectivity

- 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

- 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.

Closed Caption specifications

- Preservation of Captions in ingest and playout (CEA-608/708, OP-42/47)
- OP-42/47 insertion from STL

File transfer protocols

CIFS, FTP, Amazon S3 (or S3 compatible storage), Interplay

Reference Genlock characteristics

- 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

Special Modes

- 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

- 16 tracks embedded per channel SDI (8AES-EBU)
- Supports SDI embedded audio compliant with SMPTE 272M (SD) and SMPTE 299M (HD).

Timecode

- Unbalanced LTC input (ST-12M-1) available on MCX connector

Power requirements

- Dual redundant Power supply
  800W hot swap
  50-60 Hz, 100-240 VAC

Control

- 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 (audio mapping), IS-09 support

Discrete AES/EBU audio tracks

- Brio 4/6/8/12: Pool of 32 tracks (16 for inputs, 16 for outputs)

Environmental characteristics

•Operating temperature: +10°C to +35°C
Non-operating temperature (not in use): -30°C to +60°C

Video Preview

- Customizable text overlay per channel
- Streaming multi-viewer for remote preview of multiple Brio channels in a web browser.

Monitoring

- SNMP
  Brio REST API

Video Playback

Any supported format can be played seamlessly back-to-back

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With over three decades of innovation, Dalet empowers media-rich organizations to transform their production and distribution workflows – accelerating media operations, maximizing collaboration and creating higher value from content.

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