

mDECK Grand io



Overview

Take your content production to the next level with mDECK Grand io, a professional media deck that ensures incredible reliability and elasticity with the combination of record, ingest, transcode, and playback operations in UHD, FHD, and NDI.

This powerful appliance ensures broadcast quality for hybrid workflows (file-based and live) while supporting the most used formats on the market.

In addition, it comes with 8TB SSD local storage, PSU redundancy, and an OS drive.



Highlights

- Live to live - multiple simultaneous records
- Metadata preservation, enhancement, and enrichment
- File playback - multiple simultaneous plays
- Multiple simultaneous transcodes
- Automated file ingest
- Media checksum
- Closed captions
- Playlist management
- Quality control, audio, and video report
- Flexible file naming and renaming engine
- Locators support
- Batch capture
- Supports spanned clips
- Proxy generation
- Playback preparation and control
- Improved security
- Artificial intelligence

Specially Designed For

- Educational/Government
- Live Entertainment/Worship
- Corporate
- Sports
- Film/TV Studio/Scripted
- Digital News
- Digitalization
- Archiving
- Post-Production
- Television/Broadcasting
- OTT & Streaming
- System Integrators/Rentals

Features

| Features |
|--|
| Timecode support |
| LTC (SMPTE 12M) |
| VITC (SMPTE RP188) |
| Time of Day |
| Serial Control Protocols |
| VTR (BVW) - Serial |
| VTR (VDCP) - Serial |
| Multiple LIVE and simultaneous records |
| Crash Record operations |
| Gang Capture operations |
| Independent workflow selection in Gang Captures |
| Unique workflow for gang captures while using clipnaming with counters |
| Conceal/Hide option for unused Capture Instances |
| Synchronize (different) Gang Captures |
| Flexible Gang Capture channel configurations / Choose which channels are present in the gang |
| Frame Chase editing |
| Unlimited capture duration support |
| Growing files support |
| Growing file support for Grass valley Edius Workgroup v.9 and X |
| Growing XDCAM MXF OP1a file support on Avid Media Composer *required Nablet AMA Plugin |
| Automatic Stream Control - Detect input streams and start recording automatically |
| Continuous recording support |
| Continuous live stream capture |
| Recording timer for captures |
| Abort or force stop a capture or a stream |
| Frame rate conversion option on Capture workflows |
| Generate MP4 files as Fragmented MP4 via DCP Packager |
| Add XML sidecars with WAV file as output while recording |
| Perform "Run after completion" scripts |
| Remove source assets after Job completion for all plain sources |
| Live Probing option |
| Stream with Closed Captions |
| Edit a Workflow directly from the Player |
| Input selection made directly from a dropdown list on the player |
| Option to start timecode recording from 00:00:00:00 |
| Export in "MOG playlist" format (.XML Sidecar containing information about the chunks of the recorded media) |
| Batch record support |
| Deck control through Serial Ports |
| Pre-roll and post-roll options |
| LiveU NewsML batch capture |
| LiveU NewsML metadata import |
| LiveU NewsML - support XML from devices (Live U, Android and iPhone) |
| LiveU include subfolder browse |
| Contribution Web Video Player - Aspect marker, Safe Area Marker, and Center marker |
| Player Overlay - Center Dot and Cross |
| Support for Active Format Description (AFD) |
| Medialoopster Integration in Capture operations |
| Medialoopster Integration in Batch Capture operations |
| Measurement of consumption (Number of bytes for input/output "lives") |
| Video Router Protocols |
| Quartz |
| Probel SW-P-08 |
| Jupiter ASCII |
| Blackmagic Videohub Ethernet Protocol |
| Operation modes |
| Automatic |
| Manual |
| Scheduled |

Features

Clipnaming

- Flexible file renaming engine
- Create diversified clipnaming templates
- Clipnaming based on Metadata Profiles
- Use of common labels (Id, label, Counter, Date, Original Source Name, Weekday, User)
- Field numeric representation of the day of the week
- Folder Structure creation
- Drag and Drop support
- Restore auto numbering on capture abort in naming templates
- "CreationDate" field can refer to a desired Time Zone
- Add the label "_p" to proxy clips' names

Multi-Configuration metadata management and enrichment

- An efficient internal asset management
- Quickly search for assets metadata
- Directly manage your assets metadata
- Generate metadata directly through capture operations
- Prevent the overwrite of metadata fields
- Protect metadata fields
- Reset metadata fields
- Delete custom metadata
- Edit group clips metadata
- Edit a file's source metadata based on a configured metadata profile
- "Description" field editable in metadata widget
- Set "Description" field as a column in the Asset Explorer list view
- Forward metadata to Gang Captures
- Favorite metadata fields
- Create custom metadata fields
- Add a "Rating" metadata field
- Update the source metadata directly through the metadata widget
- Add asset tags insertion in preset list
- Re-use lists of possible values
- Update Metadata in Media Central/Interplay using AMT-3 library
- Rename media in Interplay after a capture has begun
- Take field (counter)
- Support for "Reel" metadata field using Apple ProRes Wrapper
- Read metadata from pre-configured cloud storages (Amazon S3 / Google Cloud Storage / Tencent / IBM Cloud Object Storage)
- Preserve specific Arri fields
- Preserve RED digital cinema color information

Find immediately and learn everything about any asset

- Show or hide proxies on Asset Browser
- Sort, order and search for files on Asset Browser
- Asset Explorer - Resizable thumbnails
- Asset Explorer - Support asset availability
- Search for all assets on Asset Explorer
- Extract thumbnails and posters while indexing on Asset Explorer
- Asset Explorer - Playable thumbnails
- Preview media with interactive Pop-up Players
- Asset Explorer - View the exact duration of files with more than 24 hours
- Asset Selection -View the total duration of the selected assets
- Configure the asset's preview duration
- Asset Selection - Add Numeric Input

Asset management Check-in

- AVID AAF
- AVID interplay
- XML support
- XSLT transformation - XML sidecar
- Edit share flow
- Vizzi OTT check in
- Support for update on Vizzi OTT check-in

Features

Audio support

- PCM input and output support
- Dolby E-AC-3, Dolby TrueHD, and DTS input support
- Dolby-E Input and output support
- DTS Coherent Acoustics (DCA)
- Integration with Dante Audio Capture *Negotiated separately
- PCM 96KHz support
- Independent audio encoder for hires and proxy
- Individually map your audio by output target
- Record audio only streams
- Playout audio only streams
- Loudness normalization (EBU R128)
- Audio downmixing & upmixing
- External audio files support (.WAV)
- MPEG-4 Audio (M4A) audio format as output
- Ability to mute proxy on the output

Close captions

- CEA/EIA - 608
- Scenarist (SCC)
- Add sidecar - SubRip (SRT)
- Add sidecar - Fragmented WebVTT
- Add sidecar - ISMT/CMFT subtitles
- DCP subtitle burn-in (.SCC)
- Digital Cinema Package (DCP) open captioning
- Support DVB-S captions in streams
- Support captioning for OTT (CMFT, SubRip, and WebVTT)
- Stream with Closed Captions

Locators

- Create locators with shortcut keys
- Edit and delete locators
- Edit the locators' description
- Insertion and viewing
- Create and freely customize action fields
- Insert comments in a marker's widget tab
- Locators source in markers widget
- Select multiple subcategories for a single locator
- Order asset locators by timecode
- Establish Absolute or Relative timecode for source locators
- Enter Timecode without the need of entering colons
- Eject locators using the player eject button
- Merge locators
- Support for locators with AMT captures
- Send locators directly to Gang Captures
- Send locators instantly to Playout
- Preserve Metadata Enhancement locators created by an Automatic Job

Scheduler (Calendar View)

- Schedule a Record operation
- Schedule Automatic Jobs
- Schedule Gang Captures
- Schedule Playouts
- Schedule Maintenance Tasks (Reboot, Export Logs, Export Full Backup)
- Edit individual events
- Export activity events
- Allow editing of settings for each occurrence/repetition
- Set the number of an event's repetitions
- Check for collisions between events and repetitions
- Ability to Ignore files before a start date
- Placeholder when editing an occurrence name
- Enable field event name as AVID Interplay clipname by default
- Use pre-set naming templates
- Send the assets to independent targets and multiple outputs
- Establish a maximum capture duration

Features

- Configurable number of iterations when using maximum capture duration
- Use AVID Interplay clip name as event name on crash record events
- Pre-roll and post-roll options for scheduled events
- Define events to be triggered on any day, on working days only or only on weekends
- Set the Calendar Notion option to automatically adjust to daylight time
- Edit the Start Time field after the first recording
- Visualize scheduled events in a List View
- Perform captures from an Airspeed 5000
- Scheduler (Record Grid) - Unifies in a single rollout view all ingest activities *Optional**
- Schedule a Record operation
- Schedule Gang Captures
- Create new scheduled events directly from the timeline
- Perform crash record captures directly from the grid view
- Metadata Insertion availability
- Use of pre-set naming templates
- Edit scheduler individual events
- Edit an event after it has started
- Edit settings for each occurrence/repetition
- Trigger Capture events (Any day, On Working Days or only on Weekends)
- Adjust events by dragging them on the timeline
- Check collision between events with repetitions
- On channel settings assign an Input a workflow a router source and a duration and start recording on the fly
- Change router source cross point from record scheduler during a live event
- Change router source on rollout
- Copy an event's name after it is complete
- Perform captures from an Airspeed 5000
- Pre-roll and post-roll options for scheduled events
- Configure the number of events repetitions
- Define events to be triggered on any day, working days or weekends only
- Set the Calendar Notion option to automatically adjust to daylight time
- Expandable and collapsible views
- Jump to date to seek events by day or in a 7 days period
- Choose between AVID or MOG color schemes
- Confirm a "Stop" action
- Scheduler (Playout Grid View) - Unifies in a single rollout view all Playout activities *Optional**
- Grid View for Playout
- Crash Playout directly from the Grid View
- Loop a playlist
- Schedule Clip Lists to be Played out
- Adjust to a desired Time Zone
- Ability to set a pre-determined number of repetitions
- Trigger Playout events (Any day, On Working Days or only on Weekends)
- Router Control *Optional**
- Support for Black Magic Video Router
- Support for Grass Valley Sirius Video Router
- Support for Evertz Quartz Video Router
- Support for Jupiter ASCII
- Change router points directly on the player
- Capacity to setup the number of sources and destinations
- Option to choose to make use or not of a source
- Assign a mnemonic to each source
- Ability to provide an alternative name to a router mnemonic
- Assign in the crosspoint tab a source to each router destination
- Lock sources to each router destination
- Configurable connection through IP or host name to the destination router
- Signal error detection and related recovery actions**
- Detect possible signal errors
- Detect possible drop frames
- Support for timecode breaks
- Configurable capture resume methodology
- Automatic streaming (headless) - Restart capture after stopping/crashing or rebooting

Features

Checksum media

- MD5 hash file
- MDL - Media hash list

Live to Live

- Delete artifacts on abort
- Vizzi OTT Live Output
- Multiple resolutions check-in
- Support Time of Day in input streams (RTMP, MPEG-TS, RTP, SRT, RTSP, HLS, LLDASH, MSS, MPEG-DASH, CMAF)
- Support Live Stream from sCapture as rPLayout input
- Variable Frame Rate Input
- Support IGMPv3 multicast
- Add possibility to change the transport stream segments duration

MPEG-TS Support

- Capture of MPEG-Transport Streams
- Support of MPEG-TS program IDs

NDI

- Native NDI output
- NDI HX Support
- NDI audio and video synchronized mechanism
- NDI discovery mechanism
- Capture multiple NDI sources
- Time of day and embedded timecode options in NDI input

HLS

- Configurable HLS segment duration
- Configurable HLS Playlist segment count

RTMP

- RTMP recording with absolute timecode
- RTMP Push Mode in input and output
- RTMP Pull Mode in input and output
- Native RTMP listener capability
- Multiple audio channels in RTMP Output
- HEVC, VP9 and AV1 codec in enhanced RTMP/FLV

SRT

- Input modes: Caller, Listener, and Rendezvous
- SRT listener mode as stream output
- Output modes: Caller and Rendezvous
- Stream ID support
- Configurable latency settings
- Configurable overhead bandwidth
- Configurable passphrase
- Monitoring input metrics

WebRTC

- h.264 Support
- VP8 Support
- VP9 Support

File ingest

- Execute multiple simultaneous transcodes
- Batch ingest
- Card ingest
- Clip merge
- Clip renaming
- Disable Clip File Naming generation
- Partially restore clips
- Rough cut
- Establish priority levels
- Pause File Based ingest operations
- Insert Subclips SOM and EOM without colons
- Automatic drag and drop ingest
- Drag and drop media from several social networks
- Generate XML sidecar with WAV file as output while ingest
- Generate a .xml file for each output AVID clip or AVID sequence
- Ingest Apple ProRes wrapped in OP-Atom to Avid

Features

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|---|
| Support of Avid OP-Atom files with Apple ProRes essence |
| Merge as Sequence from MP4 proxy files |
| Merge as sequence by sequence XML for MP4 |
| Automatically select workflows available in job control attending the source files |
| Cut growing files and send them to (a playlist for) playout |
| Directly select the storage on the dashboard instead of accessing workflow profiles |
| Copy assets |
| Group resulting assets into a single one |
| Copy - Transfer sidecars if available |
| Encode the contents according to the destination format |
| Decode the contents according to the destination format |
| Move assets |
| Edit while transcoding/ingesting |
| Place locators on growing files |
| Multiple resolutions check-in |
| Frame rate conversion |
| Variable Frame Rate Input |
| High Dynamic Range (HDR) support - HLG (arib std-b67) / PQ (SMPTE 2084) |
| High Frame Rate (HFR) up to 120fps (ST2081-10, ST2081-11, ST2082-10, ST2082-11 and ST2082-30) |
| Ability to perform "Run after completion" scripts |
| Audio only OPAtom as output |
| Opt to not overwrite files |
| Support for .MOV files containing "Run-length encoding" video essence |
| Enable "growing" support on EDL ingest workflow |
| Timecode SUM of selected cuts |
| Merge assets as EDL, regardless of the input's format |
| Merge Trimmed files |
| Merge files with different framerates |
| Merge P2 with different audio channels |
| Merge operations for Devices sources |
| Allow the merge of more than 200 assets |
| Support for spanned Panasonic P2 structure |
| Preserve original time code breaks in Panasonic P2 Format |
| Mute proxy option in output (requires proxy option) |
| Create Edit Decision Lists with cut points |
| View the total duration of the sub-clips in an EDL widget |
| Ingest from cloud locations |
| Digital Cinema Package (DCP) support |
| Choose to force fragment MP4 clips while uploading to a S3 bucket |
| Generation of MP4 files as fragmented MP4 with DCP packager |
| Digital Picture Exchange (DPX) support |
| Select IMF (Netflix Compliant) as the output metadata |
| FTP for generic network devices as input |
| Ability to delete OPAtom source files after ingest |
| Support for GOPRO spanned files |
| Support video with vertical rotation |
| MOG file package support |
| Support MOG Package from Cloud Storages |
| Outgest growing media directly from Interplay |
| Dual check in to interplay in a merge as sequence operation with the same MOBID for the sequences |
| HDR (PQ, HLG) conversion to SDR as output |
| Ingest image files |
| Support 48fps drop frame media (DJI Camera Drones) |
| Support for spanned clips |
| XDCAM support for spanned & merge clips in network locations/network devices |
| Add black bars to match the aspect ratio |
| Delete an Output via Job Abort |
| Schedule an Ingest operation through the Calendar via Automatic Jobs |
| Ingest and/or transcode the contents according to the destination format |
| Vubiquity assets support |
| Support for Vizzi collections as input files |
| Browse Avid Interplay folder structure from within the "Workflow selection window" |

Features

- Avid Sub Clip export referencing Growing Master Clip
- Generate Avid OPAtom assets to an FTP server
- Update Metadata in Media Central/Interplay using AMT-3 library
- Create Live Ingest Operations
- Live Sources made available in the Asset Browser/Explorer widgets
- Override start timecode
- Index clips with same name but with different metadata
- Exclude file extensions from File inputs
- Measurement of consumption (Number of bytes for input/output "files")

Burn-In Video options

- Graphic burn-in while recording
- Graphic burn-in while ingesting
- Text (Position, Text color, Box Color, Font Size)
- Timecode (Position, Text color, Box Color, Font Size)
- Overlays support (images and videos positioning)
- LUT (Look-Up Table) - Save particular color grades as a template

Automated ingest

- Create Automatic Jobs
- Dynamic workflows using metadata fields
- Dynamic workflows with support for metadata without sidecars
- Delete Assets in Dynamic Jobs
- Support different input types on dynamic configurations
- Ignore files before a start date
- Re-process assets with the same name
- Support metadata enhancement workflows
- Vizzi Collections support

File playback

- Simultaneous playback
- Composition play
- Instant play
- Gang Play
- Replay a group or an individual asset
- Loop playback
- Group Loop Playback
- Gridline (3x5) Overlay
- Remote preview
- Support for 10bit
- Synchronous SDI playback of multiple files
- Closed captions
- Cue mode
- Monitor - support HDR
- Option to add locators
- Play assets from cloud storages
- Preview Editing Decision Lists
- Preview Clip Lists
- Playback - 8K UHD
- Embedded VITC output support
- Step multiple frames forward and backwards on SDI/gang playback
- Timecode and metadata overlaying on SDI out
- Support for growing assets in player
- Support for spanned assets in player
- Timecode only monitoring
- Use of a contour shuttle to control an asset during playback
- Playback duration showing the remaining time of the clip
- Remove clips
- Reorder clips
- Export playlist
- Create new playlists with the current assets selection
- High Dynamic Range (HDR) support - HLG (arib std-b67) / PQ (SMPTE 2084)
- High Frame Rate (HFR) up to 120fps (ST2081-10, ST2081-11, ST2082-10, ST2082-11 and ST2082-30)
- Preview - Possibility to change the playback speed by multiplier factors
- Simple Time Delay: Scheduling a Playback of a Single File in Growing Recording Mode

Features

Read Metadata Timecode Package (Auto / Material Package / Source Package)

Playout

Playout Preparation

- Build playlists in a Playlist Builder widget
- Create multiple Playlists
- Allow configuring playout clip action while preparing the playlist
- Support visual separators for rPlayout playlists
- Drag and Drop clips to the player for media preparation
- Support insertion of Timecodes without separators ":" in the playlist builder
- Use both types of TC (Relative and Absolute) for Mark-ins and mark-out at playlist builder
- Trim clips to be included in the Playlist
- Editable timecodes of the in and out points
- Re-arrange clips order
- Duplicate Edit Decision Lists
- Export Edit Decision Lists

Playout Control

- Edit playlist on the fly and while playing
- Playlist countdown and clip countdown
- File and clip list progress bars
- Playout Capture streams through SDI and native window
- Print to tape
- Queue clip on the playlist
- Queue on first frame and last frame
- Queue on first frame the first clip of the playlist
- Bypass action for playout clips
- Pause Playlist
- Playout to stream
- Thumbnail preview of the current clip on the playlist and its remaining time until Playout of the next clip
- On Air - current loaded playlist name
- Loop a playlist
- Loop one or more assets in the playlist
- Drag and Drop Clip List entries in Playout Control
- Multi-channel playout capability
- Schedule Playout
- Choose between Playout Services available - rPlayerSDI or CasparCG
- Mini control bar for use with Playout Control
- Keyboard shortcuts for playout control and associated WEB player
- Autoplay option
- As Run Log's containing Date, Time, Clip name, Time Code In, and Time Code Out
- Prepare the Playout clip actions while preparing the playlist
- Seamless playback without black frames when "jump to" in a playlist

Input/output social media *Optional

- Capture to Facebook Live
- Stream to Facebook Live
- Stream to Twitch Live
- Capture to YouTube Live
- File based YouTube Upload
- Capture X (Twitter) Live
- Stream to X (Twitter) Live
- Upload to Vimeo
- Metadata social annotation and enhancement

PAM - Production Asset Management *Optional

- Advanced text search
- Asset browser permissions
- Asset collections
- Asset essences
- Asset essences for generic sources
- Asset comments
- Enable on-the-fly tagging
- Flexible metadata management
- Dynamic Automatic Jobs - Age value for CreationDate (Available for Copy, Move, Archive Workflows)
- Display of Essences File Paths

Features

- Check-in via detector
- Check-in via metadata update
- Check-in via workflow
- Interactive approval workflows
- MOG player proxy
- Optional Proxy creation
- Manual Proxy creation
- Move option in asset collections
- Collections as input in automatic jobs
- Private and shared asset collections
- Show the creator of the collection
- Statistics for collections
- Save searches and filters
- Rich logging workflows
- User abstraction for in/out assets
- Instant play, anytime and anywhere of any asset (with or without proxy)
- Disk-to-Disk Storage Manager (Archive and Restore)

Metadata Enhancement and preservation

Artificial Intelligence

Audio

- Audio clipping detection
- Loudness detection
- Silence detection
- Voice activity detection
- Audio mute detection
- Audio phase detection
- Mono audio detection

Video

- Black frames detection
- Video freeze detection
- Scene change detection
- Black Margins detection
- Flashing video detection

Object

- Concept tagger 2.0
- Vehicle detection
- License plate detection

Others

- Timecode gap detection
- Update existing interplay entry with new metadata
- Possibility to add bounding boxes to player

Transform

- Automatically Blur License Plates
- Black margins automatic crop
- Remove audio clicks
- Remove audio clipping
- AI Upscale
- Reduce video flashing

Additional AI Operations *Optional

- Face recognition 2.0
- Face recognition - Support dataset with multiple images for each person
- Object detection 2.0
- Optical Character Recognition (OCR)
- Speech recognition 2.0 (with ability to detect non speech tokens)

Analytics

- Integrate with Google Analytics and Tag Manager
- Enable or disable Analytics
- Keep track of menu events
- Receive video metrics
- Keep track of Job Control widget's events
- Keep track of Asset Explorer widget's events

Features

Improved security

- Support for Windows UAC
- Support for HTTP/HTTPS Ingress
- HTTPS (Hypertext Transfer Protocol Secure) for REST API
- Secure login
- User Impersonation
- Token based authentication
- Two-factor authentication
- Remote services, system restart, and settings recovery features
- Database replication
- Opt to "Keep me signed in"
- Send a User Verification through email
- Configurable password visibility in logs

Orchestration

- Orchestration View for output workflows
- Services Menu that eases Group and Cluster Configuration while displaying running services per node

Transfer acceleration protocols

- Aspera FASP transport technology - Transfer acceleration protocol
- FileCatalyst direct - Transfer acceleration protocol

Hardware acceleration *If Hardware is installed or available

- Nvidia Nvenc

General Purpose IN/OUT

- GPI triggers supported
- GPO triggers supported

Additional Highlights

- REST API - allows interaction with RESTful web services
- Change Aspect Ratio (4:3 / 16:9 / 1.9:1 / 2:1 or use same as source)
- Active Format Description (Option to Preserve, Discard or Override)
- Protection against overwriting files
- Notify user upon connection lost with the Server
- Manage via web interface or REST APIs for integration with automation system
- Configurable quality and target latency of the preview stream
- Logging - Human readable information on Services logs
- Logging - Add user information on flow actions
- Logging - Structured Logging
- Receive SMTP notifications via e-mail
- Support an external Database
- Microsoft Edge / Firefox / Safari and Chrome Support

Unified Interface User Experience

- Unified GUI for all services and group of servers in the farm
- Configurable web interface access port
- Embeddable Dashboards/Widgets
- Environment Dashboard which enables an overview of group servers in workgroups
- Web-Based Interface with video preview
- Dashboards based experience where users can create their own personalized view
- Dashboards presets for ease-of-use deployment
- Create your own custom dashboard templates
- Import and Export Users' Dashboards
- Associate a single dashboard to multiple users
- LDAP user authentication
- User profile management
- Users permissions control
- Widget based modular interface
- Lock/Unlock widgets permission
- Choose between multiple interface themes (Midnight, Carbon, Dark or High contrast theme)
- Touch screen mode
- Monitoring - Advanced metrics
- Multi Language Support
- User tour
- Show/Hide player overlays
- Notifications of required actions needed to resume a workflow
- Monitor Grouped Servers' activity in a Group Activity Widget

Features

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|---|
| Remove the "quick edit" button from the Job Control Widget |
| (Set Permissions to) Activate or Deactivate Settings of a Gang Capture widget |
| Multiviewer |
| Define the quality and target latency of the preview stream |
| Ability to control to up to 8 players in a single dashboard |
| Ability to control to up to 4 players in a single dashboard |
| Maintenance |
| Scheduler |
| Reboot host or group |
| Export database (backup) as a scheduled task |
| Export logs as a scheduled task |
| Activity |
| Export last activity |
| Export all activity |
| Export activity from a date range |
| Clear all activity |
| Logs |
| Export logs |
| Backup |
| Export full backup - A full backup will create an archive of all the files and configurations |
| Import full backup |
| Dashboards |
| Export dashboards from one user or all users |
| Import dashboards |
| Data |
| Clean data usage |
| Clean assets, flows and notifications |
| Perform a Factory Data Reset |
| Erase all data and reset the system |
| Force clear cache |

Technical Specifications

Supported File Inputs

Inputs

| | |
|--------------------|--|
| OnPrem | Plain Files or Structures |
| | ARRI ALEXA Cameras |
| | BlackMagic Cameras |
| | RED Digital Cinema |
| | Avid Files |
| | Avid Media Files (standalone or Nexis) |
| | Avid Sequences (master clips and rendered sequences) |
| | CANON DSLR 5D, 7D, C300, C100 |
| | GoPro Cards |
| | IKEGAMI GFPAK |
| | JVC (AVC HD models) |
| | NextoDI NSB-25 |
| | Panasonic AU-EVA1 and GH5 Cameras |
| | Panasonic P2 |
| | AJ-PCD 2 / AJ-PCD 20/30/35 / AJ-MPD1 |
| | AU-XP1E / AU-XP3EJ |
| | XDCAM EX: |
| | Sony SxS (SBAC-UT100, SBAC-US10/20/30) |
| | XDCAM HD |
| | Sony XDCAM HD: Disc (PDW-U1, PDW-U2, PDW-U4) |
| | XAVC Structures |
| | DJI (Camera Drones) |
| HLS Structures | |
| MPEG-TS Structures | |
| MOG Package | |

Inputs

| | |
|------------------------------|------------------------------------|
| OnPrem | Network |
| | XDCAM Network |
| | P2 Network |
| | ARRI RAW Network |
| | Ikegami Network |
| | Storage |
| | Avid Nexis |
| | Avid Unity™ MediaNetwork |
| | DDP – Dynamic Drive Pool |
| | Facilis TerraBlock |
| | Harmonic MediaGrid |
| | Editshare EFS |
| | NAS / SAS (SMB 2.0 and 3.0) |
| | Quantum StorNext |
| | ScaleLogic NX2 & ZX NAS Storage |
| | EMC Isilon |
| QNAP | |
| Studio Network Solutions EVO | |
| Oracle Storage | |
| Netapp | |
| Cloud | Social Media |
| | Facebook |
| | X (Twitter) |
| | Vimeo |
| | YouTube |
| | Professional Cloud Storages |
| | Adobe Creative Cloud |
| | Amazon S3 Glacier |
| | Microsoft Azure Storage |
| | Tencent |
| | Lucidlink Cloud NAS |
| | Google Cloud Storage |
| | IBM Cloud Object Storage |
| | Generic S3 storages |
| | Consumer Cloud Storages |
| | Apple I Cloud Drive |
| Dropbox | |
| Google Drive | |
| Microsoft One Drive | |

Supported File Outputs

Outputs

| | |
|---------------|---------------------------------|
| OnPrem | Avid Nexis |
| | Avid Unity™ MediaNetwork |
| | DDP – Dynamic Drive Pool |
| | Facilis TerraBlock |
| | Harmonic MediaGrid |
| | Editshare EFS |
| | NAS / SAS (SMB 2.0 and 3.0) |
| | Quantum StorNext |
| | ScaleLogic NX2 & ZX NAS Storage |
| | EMC Isilon |
| | QNAP |
| | Studio Network Solutions EVO |
| | Oracle Storage |
| | Netapp |
| | FTP Servers (List on request) |
| | Generic File Shares |

Outputs

| | |
|--------------|---|
| Cloud | Consumer Cloud Storages |
| | Apple I Cloud Drive |
| | Dropbox |
| | Google Drive |
| | Microsoft One Drive |
| | Multiple and Adaptive bitrates for the OTT *Optional |
| | Professional Cloud Storages |
| | Adobe Creative Cloud |
| | Amazon S3 Glacier |
| | Microsoft Azure Storage |
| | Tencent |
| | Lucidlink Cloud NAS |
| | Google Cloud Storage |
| | IBM Cloud Object Storage |
| | Generic S3 storages |
| | Social Media *Optional |
| | Facebook |
| X (Twitter) | |
| Vimeo | |
| YouTube | |

Supported Live Inputs

Inputs

| | |
|-------------|--|
| Live | SDI |
| | SD-SDI (SMPTE 259M) |
| | 3G-SDI (SMPTE 292M, SMPTE296M, SMPTE372M, SMPTE425M) |
| | 12G-SDI (SMPTE ST-2081/SMPTE ST-2082, SMPTE/2108-1) |
| | 12G-SDI (Quad-Link 3G-SDI) |
| | Support for 8, 10, and 12 bits |
| | Streams |
| | Video Content Hyperlinks |
| | HLS |
| | MPEG-TS |
| | MPEG-DASH |
| | RTMP (with support for HEVC / VP9 / AV1) |
| | RTP |
| | RTSP |
| | NewTek NDI |
| | UDP |
| | Haivision SRT |
| | WebRTC |
| | Zixi |
| | Audio |
| | Dante Audio *Negotiated separately |
| | Social Media |
| | Facebook |
| | Twitch |
| | X (Twitter) |
| | YouTube |

Supported Live Outputs

| Outputs | |
|---|--|
| Live | SDI |
| | SD-SDI (SMPTE 259M) |
| | 3G-SDI (SMPTE 292M, SMPTE296M, SMPTE372M, SMPTE425M) |
| | 12G-SDI (SMPTE ST-2081/SMPTE ST-2082, SMPTE/2108-1) |
| | 12G-SDI (Quad-Link 3G-SDI) |
| | Support for 8, 10 and 12 bits |
| | Streams |
| | HLS |
| | HTTPS Push |
| | Microsoft Smooth Streaming |
| | MPEG-DASH |
| | Low Latency Dash - LL-Dash |
| | NewTek NDI |
| | MPEG-TS |
| | RTMP (with support for HEVC / VP9 / AV1) |
| | RTP |
| | RTSP |
| | UDP |
| | Haivision SRT |
| | WebRTC |
| | Vizzi |
| | Live Output |
| | Social Media *Optional |
| | Facebook |
| | Twitch |
| X (Twitter) | |
| Vimeo | |
| YouTube | |
| Multiple and Adaptive bitrates for the OTT *Optional | |

Formats

Input Formats

| Input Video Formats |
|---|
| ARRI ARRIRAW |
| Blackmagic RAW |
| Digital Cinema Packages (DCP) |
| Digital Picture Exchange (DPX) |
| RED Digital Cinema |
| IMX 30/40/50 Mbps |
| MPEG2 LGOP 18/25/35 Mbps 4:2:0 |
| MPEG2 LGOP 50/70 Mbps 4:2:2 |
| MPEG2 LGOP 422 50 Mbps |
| MPEG2 LGOP 420 1440x1080 35 Mbps |
| MPEG2 LGOP 420 (FULL) 35 Mbps |
| DVCAM 25 Mbps |
| XAVC Intra 50 / 100 Mbps |
| XAVC Intra 300 / 300 VBR / 480 / 480 VBR Mbps |
| XAVC LGOP 25 / 35 / 50 Mbps |
| XAVC LGOP 60 / 100 / 140 / 150 / 200 Mbps |
| DVCPRO 25/50 Mbps / DVCPRO HD 100 Mbps |
| AVC-Intra 50/100 Mbps |
| AVC-Intra 200 Mbps |
| AVC-Intra 2K422 |
| AVC-Intra 4K422 |
| AVC Ultra (LGOP 6/12/25/50 Mbps) |
| DNxHD (SQ/HQ/HQX/LB) |
| DNxHR (SQ/HQ/HQX/LB) |
| H.264 4320P 80 - 150 Mbps High Profile |
| H.264 4320P 150 - 280 Mbps High Profile |
| H.264 2160p 35 - 68 Mbps High Profile |

Input Video Formats

| |
|---|
| H.264 1440p 16 - 24 Mbps High Profile |
| H.264 1080p 8 - 12 Mbps High Profile |
| H.264 720p 5 - 7.5 Mbps High Profile |
| H.264 480p 2.5 - 4 Mbps High Profile |
| H.264 360p 1 - 1.5 Mbps High Profile |
| H.264 2160p 13 - 51 Mbps High Profile (Live) |
| H.264 1440p 6 - 18 Mbps High Profile (Live) |
| H.264 1080p 3 - 9 Mbps High Profile (Live) |
| H.264 720p 1.5 - 6 Mbps High Profile (Live) |
| H.264 480p 0.5 - 2.0 Mbps High Profile (Live) |
| H.264 360p 0.4 - 1.0 Mbps High Profile (Live) |
| H.264 240p 0.3 - 0.7 Mbps High Profile (Live) |
| H.264 L10 10 Mbps |
| H.264 MOG 1Mbps |
| H.265/HEVC 10 Mbps LGOP |
| H.265/HEVC 25 Mbps LGOP |
| H.265/HEVC 50 Mbps LGOP |
| H.265/HEVC 100 Mbps LGOP |
| H.265/HEVC 4K 25 Mbps LGOP |
| H.265/HEVC 4K 50 Mbps LGOP |
| H.265/HEVC 8K 25 Mbps LGOP |
| H.265/HEVC 8K 50 Mbps LGOP |
| H.265/HEVC 8K 100 Mbps LGOP |
| H.265/HEVC 4:2:2 LGOP |
| H.265/HEVC 4K 4:2:2 LGOP |
| H.265/HEVC 8K 4:2:2 LGOP |
| NDI HX H.264 - High Profile |
| NDI HX H.265 - High Profile |
| MPEG-5 EVC Baseline Profile |
| MPEG-5 EVC Main Profile |
| MPEG VVC/H266 Main Profile |
| ProRes 422 (SQ/HQ/LT) |
| ProRes 4444 |
| ProRes 4444XQ |
| Google® VP6 / VP7 / VP8 / VP9 (Full HD) |
| Uncompressed UYVY 422 / V210 / RGBA |
| AOMedia Video 1 (Full HD) |
| AOMedia Video 1 (4K) |
| AOMedia Video 1 (8K) |

Output Formats

Output Video Formats

| |
|---|
| IMX 30/40/50 Mbps |
| MPEG2 LGOP 18/25/35 Mbps 4:2:0 |
| MPEG2 LGOP 50/70 Mbps 4:2:2 |
| MPEG2 LGOP 422 50 Mbps |
| MPEG2 LGOP 420 1440x1080 35 Mbps |
| MPEG2 LGOP 420 (FULL) 35 Mbps |
| DVCAM 25 Mbps |
| XAVC Intra 50 / 100 Mbps |
| XAVC Intra 300 / 300 VBR / 480 / 480 VBR Mbps |
| XAVC LGOP 25 / 35 / 50 Mbps |
| XAVC LGOP 60 / 100 / 140 / 150 / 200 Mbps |
| DVCPRO 25/50 Mbps / DVCPRO HD 100 Mbps |
| AVC-Intra 50/100 Mbps |
| AVC-Intra 200 Mbps |
| AVC-Intra 2K422 |
| AVC-Intra 4K422 |
| AVC Ultra (LGOP 6/12/25/50 Mbps) |
| DNxHD (SQ/HQ/HQX/LB) |
| DNxHR (SQ/HQ/HQX/LB) |

Output Video Formats

| |
|---|
| H.264 4320p 150 - 280 Mbps High Profile |
| H.264 4320p 80 - 150 Mbps High Profile |
| H.264 2160p 35 - 68 Mbps High Profile |
| H.264 1440p 16 - 24 Mbps High Profile |
| H.264 1080i 35 Mbps High Profile |
| H.264 1080p 8 - 12 Mbps High Profile |
| H.264 720p CBR - 6.5 Mbps High Profile |
| H.264 720p 5 - 7.5 Mbps High Profile |
| H.264 480p 2.5 - 4 Mbps High Profile |
| H.264 360p 1 - 1.5 Mbps High Profile |
| H.264 2160p 13 - 51 Mbps High Profile (Live) |
| H.264 1440p 6 - 18 Mbps High Profile (Live) |
| H.264 1080p 3 - 9 Mbps High Profile (Live) |
| H.264 720p 1.5 - 6 Mbps High Profile (Live) |
| H.264 480p 0.5 - 2.0 Mbps High Profile (Live) |
| H.264 360p 0.4 - 1.0 Mbps High Profile (Live) |
| H.264 240p 0.3 - 0.7 Mbps High Profile (Live) |
| H.264 1080p CBR 15 Mbps MAIN Profile |
| H.264 480p CBR 2.3 Mbps MAIN Profile |
| H.264 360p CBR MAIN Profile |
| H.264 432p CBR MAIN Profile |
| H.264 576p CBR MAIN Profile |
| H.264 720p CBR MAIN Profile |
| H.264 1080p CBR MAIN Profile |
| H.264 576p CBR - 3 Mbps MAIN Profile |
| H.264 720p CBR - 4 Mbps MAIN Profile |
| H.264 1080p CBR - 5Mbps MAIN Profile |
| H.264 15-30 Mbps MAIN Profile |
| H.264 L10 10 Mbps |
| H.264 WebRTC Baseline |
| H.265/HEVC LGOP 4:2:2 |
| H.265/HEVC 10 Mbps LGOP |
| H.265/HEVC 25 Mbps LGOP |
| H.265/HEVC 50 Mbps LGOP |
| H.265/HEVC 100 Mbps LGOP |
| H.265/HEVC 4K 25 Mbps LGOP |
| H.265/HEVC 4K 50 Mbps LGOP |
| H.265/HEVC 8K 25 Mbps LGOP |
| H.265/HEVC 8K 50 Mbps LGOP |
| H.265/HEVC 8K 100 Mbps LGOP |
| NDI HX H.264 - High Profile |
| NDI HX H.265 - High Profile |
| MPEG-5 EVC Baseline Profile |
| MPEG-5 EVC Main Profile |
| MPEG VVC/H266 Main Profile |
| ProRes 422 (SQ/HQ/LT) |
| ProRes 4444 |
| ProRes 4444XQ |
| Google® VP6 / VP7 / VP8 |
| Google® VP9 (Full HD) |
| Google® VP9 (4K) |
| Google® VP9 (8K) |
| Uncompressed UYVY 422 / V210 / RGBA |
| AOMedia Video 1 (Full HD) |
| AOMedia Video 1 (4K) |
| AOMedia Video 1 (8K) |

Proxy Formats

| Output Proxy Formats |
|---|
| XAVC LGOP 25 / 35 Mbps |
| AVC Ultra (LGOP 6/12/25 Mbps) |
| H.264 @ 500 Kbps Flash |
| H.264 @ 486p 1 / 1.5 Mbps Flash |
| H.264 360p @ 1.6 Mbps Flash |
| H.264 720 480p @ 8 / 10 Mbps Flash |
| H.264 720p @ 8 / 15 / 16 / 20 / 24 / 25 Mbps Flash |
| H.264 854 480p @ 8 / 10 Mbps Flash |
| H.264 960 540p @ 3 Mbps Flash |
| H.264 1080p @ 8 / 15 / 16 / 20 / 24 / 25 Mbps Flash |
| H.264 SD @ 4 / 8 / 15 / 20 / 25 Mbps |
| H.264 480p @ 0.5 - 2 Mbps High Profile (Live) |
| H.264 360p @ 0.4 - 1 Mbps High Profile (Live) |
| H.264 240p @ 0.3 - 0.7 Mbps High Profile (Live) |
| ProRes Proxy 1920x1080 |
| ProRes Proxy 1280x720 |
| ProRes Proxy 960x540 |
| ProRes Proxy SD (16:9 Raster) |
| ProRes Proxy SD |
| MPEG-1 (layer 2) @ 1.5 Mbps |
| Avid MPEG-2 (SIF @ 2Mbps) |
| H.264 MOG 1Mbps |
| H.264 Interplay Web (SD, 800 Kbps, and 2 Mbps) |
| Sony Proxy AV (MPEG-4 Part-2) @1.5 Mbps |

OTT Formats *

| Output OTT Formats |
|---|
| H.264 2160p 35 - 68 Mbps High Profile |
| H.264 1440p 16 - 24 Mbps High Profile |
| H.264 1080i 35 Mbps High Profile |
| H.264 1080p 8 - 12 Mbps High Profile |
| H.264 720p 5 - 7.5 Mbps High Profile |
| H.264 480p 2.5 - 4 Mbps High Profile |
| H.264 360p 1 - 1.5 Mbps High Profile |
| H.264 2160p 13 - 51 Mbps High Profile (Live) |
| H.264 1440p 6 - 18 Mbps High Profile (Live) |
| H.264 1080p 3 - 9 Mbps High Profile (Live) |
| H.264 720p 1.5 - 6 Mbps High Profile (Live) |
| H.264 480p 0.5 - 2.0 Mbps High Profile (Live) |
| H.264 360p 0.4 - 1.0 Mbps High Profile (Live) |
| H.264 240p 0.3 - 0.7 Mbps High Profile (Live) |
| H.264 360p CBR MAIN Profile |
| H.264 432p CBR MAIN Profile |
| H.264 576p CBR MAIN Profile |
| H.264 720p CBR MAIN Profile |
| H.264 1080p CBR MAIN Profile |
| H.264 576p CBR - 3 Mbps MAIN Profile |
| H.264 720p CBR - 4 Mbps MAIN Profile |
| H.264 1080p CBR - 5Mbps MAIN Profile |
| H.265/HEVC 10 Mbps LGOP |
| H.265/HEVC 25 Mbps LGOP |
| H.265/HEVC 50 Mbps LGOP |
| H.265/HEVC 100 Mbps LGOP |
| H.265/HEVC LGOP 4:2:2 |
| Google® VP9 (Full HD) |
| Google® VP9 (4K) |

* Optional output

Product Integrations

| Editing Systems | MAM / PAM / DAM | Cameras | Consumer Cloud Storages |
|-------------------------------------|----------------------------------|--|--|
| Adobe Premiere Pro | CatDV MAM | Canon (DSLR5D, DSLR 7D) | Dropbox |
| AVID Media Composer | CatDV PAM | Canon (DSLR C300, DSLR C100) | Google Drive |
| AVID Media Central UX | CatDV DAM | ARRI Alexa XT (ARRIRAW) | Microsoft One Drive |
| AVID Media Central Cloud UX | eMAM Media Asset Management | Panasonic AU-EVA1 | Apple I Cloud Drive |
| Apple Final Cut Pro X | Telestream: Masstech | Panasonic GH5 Cameras | CDN's |
| Edius: Pro 8 and Workgroup 9 and 10 | AVID Interplay | Panasonic CX350 HEVC | Lumen |
| BlackMagic: DaVinci Resolve Studio | AXLE MAM | Panasonic PTZ Cameras | Fastly |
| Autodesk: Flame | Editshare Flow | Ikegami Gfpack | Akamai Technologies |
| Storage | MOG Vizzi | JVC AVC HD camera models | Microsoft Azure |
| AVID Nexis Storage | Medialoopster MAM | LUMIX DC-S1H | Cloudflare |
| Avid Unity™ MediaNetwork | Professional Cloud Storages | NewTek PTZ3 UHD Camera | Limelight Networks |
| Dynamic Drive Pool SAN Storage | Adobe Creative Cloud | NewTek PTZ3 Camera | Amazon CloudFront |
| Facilis Terrablock | Amazon EC2 | RED Digital Cinema | BootstrapCDN |
| Harmonic MediaGrid | Amazon S3 | GOPRO | StackPath |
| Quantum: Storenext | Amazon S3 Glacier | Card Readers | KeyCDN |
| Scalelogic: NX2 & ZX NAS Storage | Microsoft Azure Storage | Panasonic P2 (AJ PCD 2 / AJ PCD 20/30/35) | Rackspace |
| Editshare EFS | Microsoft Azure Virtual Machines | Panasonic P2 (AJ MPD1) | Alibaba Cloud Content Delivery Service |
| EMC: Isilon | Tencent: Cloud Storage | Panasonic P2 (AU-XPDI1E / AU-XPDI3EJ) | CacheFly |
| QNAP | Lucidlink Cloud NAS | Panasonic P2 (AG HPG 20) | Verizon |
| Studio Network Solutions: EVO | Google Cloud Storage | Sony XDCAM EX (SxS Cards): SBAC-US10/20/30 | Social Media *Optional |
| Oracle Storage | IBM Cloud Object Storage | Sony XDCAM EX (SxS Cards): SBAC-UT100 | Facebook |
| Netapp | IBM Generic S3 | Sony XDCAM EX (SxS Cards): MRW E-80 | Twitch |
| Transfer Acceleration Protocols | Stream | Sony XDCAM EX (SxS Cards): MRW E-90 | X (Twitter) |
| File Catalyst Direct | Newtek NDI | Sony Disc Reader: PDW-U1, PDW-U2 | YouTube |
| IBM: Aspera File Transfer | Haivision SRT | Video Router Control Protocols | Vimeo |
| Peripheral Devices | Zixi | Videohub Ethernet Protocol | VTR Decks |
| Countour Shuttle Pro V2 | Structures | Evertz > SONY HDS-X5800 - Evertz BRC controller (7700R-SC-BRC) (Quartz Protocol) | XDCAM HD: Disc (PDW 1500, PDW HD1500) |
| Elgato Stream Deck | XAVC Structures | Grass Valley > Trinix 5122 - CM4000 GrassValley Router Control (Jupiter ASCII protocol) | XDCAM HD: Disc (PDW F70) |
| Archive | Audio | Grass Valley > Sirius 840 - Router Control module 2464 (Probel SW-P-08 Protocol) | XDCAM Station (XDS1000) |
| Archivare P5 | Dante *Negotiated separately | | |

Server Options

| Features | | Specs | |
|-----------------------|------------------------|------------------------------|---------------------------------------|
| System | Platform | Dell R760 | |
| | GPU | 2x Nvidia A2 | |
| | Video IO | 4x DeckLink 8K Pro | |
| | Storage Drive | 8TB SSD | |
| | Operating System Drive | 2x 480GB RAID 1 | |
| | Operating System | Windows 10 Enterprise (LTSC) | |
| Connectivity | Networking | 1Gb Ethernet Port | 2 |
| | | 10Gb Ethernet Port SFP+ | 4 |
| | Video | VGA Out | 1 |
| | USB | 2.0 | 1 |
| | | 3.0 | 1 |
| | BNC 12G In/Out | | 16 |
| | Ref. In | | 4 |
| Power Requirements | | Dual 1400W | |
| Extended Connectivity | Peripheral Module** | LTC Input | 1 |
| | | Audio Out | 1 |
| | | Breakout Connector | 1 |
| | Breakout Cable** | RS422 | 4 |
| | | GPO branch with 4 outputs | 1 |
| | | GPI branch with 4 inputs | 1 |
| Other | Dimensions & Weight | | 2RU, 772x482x86.8mm (D, W, H), ~40 kg |
| | Delivery Packaging | | 970x660x310mm (D, W, H), ~45Kg |
| | Temperature | Storage | -40°C to 65°C (-40°F to 149°F) |
| | | Continuous Operation | 10°C to 35°C (50°F to 95°F) |
| | What is Included | Power Cable | 2x C13 to C14 |
| | | Other | Static rails for 2/4-post racks |

** Not included by default

Concurrent Media Operations

With mDECK Grand io, it is possible to run different media operations simultaneously, thus guaranteeing a universe of distinct arrangements to meet the challenging day-to-day activities of media production companies.

Media operations include recording, ingesting, transcoding, playback, and file preview.

mDECK Grand io supports up to 16 media operations at the same time. Within this margin, you can combine the operations shown in the table below:

| Concurrent Media Operations | | | |
|-----------------------------|--------------------|-------------------------|-----------------------|
| Record | Ingest & Transcode | Playback | File Preview |
| Up to 16 live channels | Up to 4 operations | Up to 16 playback files | Up to 5 files preview |

Product

| Part Number | Product | Description |
|-------------|----------------|---|
| mdgrio | mDECK Grand io | Deck appliance for hybrid workflows of up to 16 combined media operations |

Available Options

Choose from the products below to customize the mDECK Grand io according to your business rules.

Production Tools

Tools for asset management and workflow orchestration.



mPAM

Benefit from a state-of-the-art content and production asset manager tool with mPAM. Streamline daily operations and empower your creative teams with the right tools to find, manage, track, enhance, and deliver media files throughout the entire production ecosystem from a single interface.



mPLAN

Set up scheduled events not only from the standard scheduler but through a unique rollout view interface. mPLAN is a tool that maintains a single rollout view of all scheduled events, allowing the management of the ingests process very efficiently. It manages multiple scheduled events across a variety of recording platforms in a multichannel environment using router control cross-points.

| Part Number | Product | Description |
|-------------|---------|--|
| mpam1usw | mPAM | Content and production asset manager per licensed user |
| mgs1sb | mPLAN | Scheduler & Router Control per licensed channel |

Note: Adding optional features might affect the number of simultaneous operations.

Add-ons

Output options to complement your workflows.

| Part Number | Product | Description |
|-------------|--------------|----------------------------------|
| cnnsmap | Social media | Simultaneous social media shares |
| cnnottop | OTT | Multiple OTT output resolutions |

Note: Adding optional features might affect the number of simultaneous operations.

Artificial Intelligence

Artificial intelligence engine to boost and facilitate media tasks even more.

| Default (already included) | |
|----------------------------|---|
| Black frames detection | Voice activity detection |
| Video freeze detection | Silence detection |
| Black margins detection | Loudness detection |
| Audio clipping detection | Loudness balance |
| Audio mute detection | Vehicle detection |
| Audio phase detection | License plate detection |
| Audio mono detection | Concept tagger |
| Timecode gap detection | Bouncing boxes |
| Scene change detection | Update existing interplay entry with new metadata |
| Transformation | |
| Frame rate conversion | Crop black margins |
| Remove audio clicks | AI upscale |
| Remove audio clipping | Blur license plates |

| Additional AI Operations | |
|--------------------------|--|
| Part Number | Product |
| aistop | Option to enable Speech-to-Text |
| aifrop | Option to enable Face Recognition |
| aiocop | Option to enable Optical Character Recognition |
| aiodop | Option to enable Object Detection |

Note: Adding optional features might affect the number of simultaneous operations.

Hardware

Customize your solution to your day-to-day media needs.

| Part Number | Product | Description |
|-------------|-------------------|---|
| pcbx | Peripheral module | Optional MOG module to expand I/O available with 1x LTC, 1x audio output, 1x GPI, 1x GPO and 4x RS422 |

Note: Adding optional features might affect the number of simultaneous operations.

Contact our sales team at sales@mog-technologies.com to find out how to purchase or in case you need more information.

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