

mDECK Grand av

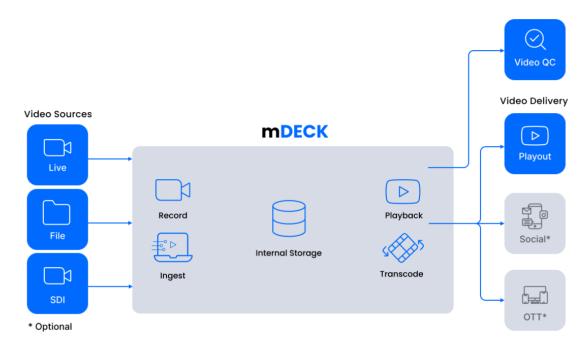


Overview

Streamline your workflows with mDECK Grand av, an all-in-one deck appliance that can combine operations of record, ingest, transcode, and playback content in UHD, FHD, and NDI. All in a single box, with an additional XAVC & AVC-Ultra hardware encoder accelerator.

This flexible media deck easily performs hybrid workflows (file-based and live), supporting the most used formats on the market.

Additionally, it comes with local storage of 8TB, PSU redundancy, and an OS Drive.



Highlights

- Live to live multiple simultaneous records
- Closed captions
- Multiple simultaneous transcodes
- Automated file ingest
- Media checksum
- File playback multiple simultaneous plays
- Metadata preservation, enhancement, and enrichment
- Playlist management
- Quality control, audio, and video report

Specially Designed For

- Educational/Government
- Live Entertainment/Worship
- Corporate
- Sports
- Film/TV Studio/Scripted
- Digital News

- Flexible file naming and renaming engine
- Locators support
- Batch capture
- Supports spanned clips
- Proxy generation
- Playout preparation and control
- Improved security
- Artificial intelligence
- 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



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 te cang captares	
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 AAF AVID interplay	
XML support	
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 mane 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
Mu possibility to change the transport stream segments duration
Capture of MPEG-Transport Streams
Support of MPEG-TS program IDs
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
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



realures
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





	Features
Avid Sub Clip export referencing Growing	Master Clip
Generate Avid OPAtom assets to an FTP s	erver
Update Metadata in Media Central/Interpla	y using AMT-3 library
Create Live Ingest Operations	
Live Sources made available in the Asset E	rowser/Explorer widgets
Override start timecode	
Index clips with same name but with differ	ent metadata
Exclude file extensions from File inputs	
Measurement of consumption (Number of	bytes for input/output "files")
urn-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,	
Overlays support (images and videos posit	
LUT (Look-Up Table) - Save particular colo	-
utomated ingest	n grades as a template
Create Automatic Jobs	
Dynamic workflows using metadata fields	lata without sidecars
Dynamic workflows with support for metad	ומנם שונווטען שעלכמוש
Delete Assets in Dynamic Jobs	opfigurations
Support different input types on dynamic o	oningulations
Ignore files before a start date	
Re-process assets with the same name	
Support metadata enhancement workflows	
Vizzi Collections support	
ile 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 backwar	ds 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 asse	t during playback
Playback duration showing the remaining t	ime of the clip
Remove clips	
Reorder clips	
Export playlist	
Create new playlists with the current asset	s selection
High Dynamic Range (HDR) support - HLG	
	181-10, ST2081-11, ST2082-10, ST2082-11 and ST2082-30)
Preview - Possibility to change the playbac	
	of a Single File in Growing Recording Mode
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Features

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
Playout Capture streams through SDI and native window Print to tape
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



Check in via directori Check in via directoria giodata giodata Check in via directoria giodata giodata MGG pipure proxy creation MGG pipure proxy creation Manual Proxy creation Manual Proxy creation Manual Proxy creation Statistics for creations Autio creation statistics in creations Autio creation direction Statistics for creations Autio creation direction Autio creation direction Autio creation direction Mode direction Statistics for creating direction Aution price direction Mode direction Statistics for creation (Creating direction)	Features
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Keep track of Job Control 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 Cluser Configurarion while displaying running servicers 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
Sony XAVC
Panasonic AVC-Ultra
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





	Features
N	Notifications of required actions needed to resume a workflow
N	Aonitor Grouped Servers' activity in a Group Activity Widget
R	Remove the "quick edit" button from the Job Control Widget
(5	Set Permissions to) Activate or Deactivate Settings of a Gang Capture widget
Mu	ltiviewer
D	Define the quality and target latency of the preview stream
A	Ability to control to up to 8 players in a single dashboard
A	bility to control to up to 4 players in a single dashboard
Ма	intenance
S	Scheduler
	Reboot host or group
	Export database (backup) as a scheduled task
	Export logs as a scheduled task
A	Activity
	Export last activity
	Export all activity
	Export activity from a date range
	Clear all activity
L	logs
	Export logs
В	Backup
	Export full backup - A full backup will create an archive of all the files and configurations
	Import full backup
D	Dashboards
	Export dashboards from one user or all users
	Import dashboards
D	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
	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
OnPrem	Panasonic AU-EVA1 and GH5 Cameras
	Panasonic P2
	AJ-PCD 2 / AJ-PCD 20/30/35 / AJ-MPD1
	AU-XPD1E / AU-XPD3EJ
	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



	inputo
	Network
	XDCAM Network
	P2 Network
	ARRI RAW Network
	Ikegami Network
	Storage
	Avid Nexis
	Avid Unity™ MediaNetwork
	DDP – Dynamic Drive Pool
OnPrem	Facilis TerraBlock
UnPrem	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
	Social Media
	Facebook
	X (Twitter)
	Vimeo
	YouTube
	Professional Cloud Storages
	Adobe Creative Cloud
	Amazon S3 Glacier
	Microsoft Azure Storage
Cloud	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

Inputs

Supported File Outputs

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



Outputs

mDECK

	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
Cloud	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
	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)
Live	RTP
LIVE	RTSP
	NewTek NDI
	UDP
	Haivision SRT
	WebRTC
	Zixi
	Audio
	Dante audio *Negotiated separately
	Social Media
	Facebook
	Twitch
	X (Twitter)
	YouTube

Supported Live Outputs

Outputs		
	SDI	
	SD-SDI (SMPTE 259M)	
	3G-SDI (SMPTE 292M, SMPTE296M, SMPTE372M, SMPTE425M)	
	12G-SDI (SMPTE ST-2081/SMPTE ST-2082, SMPTE/2108-1)	
Live	12G-SDI (Quad-Link 3G-SDI)	
Live	Support for 8, 10, and 12 bits	
	Streams	
	HLS	
	HTTPS Push	
	Microsoft Smooth Streaming	



	Outputs
	MPEG-DASH
	Low Latency Dash - LL-Dash
	NewTek NDI
	MPEG-TS
	RTMP (with support for HEVC / VP9 / AV1)
	RTP
	RTSP
	UDP
	Haivision SRT
Live	WebRTC
	Vizzi
	Live Output
	Social Media *Optional
	Facebook
	Twitch
	X (Twitter)
	Vimeo
	YouTube
	Multiple and Adaptive bitrates for the OTT *Optional

Formats

Input Formats

RRI ARRIRAW lackmagic RAW iigital Cinema Packages (DCP) iigital Picture Exchange (DPX) ED Digital Cinema MX 30/40/50 Mbps IPEG2 LGOP 18/25/35 Mbps 4:2:0 IPEG2 LGOP 50/70 Mbps 4:2:2 IPEG2 LGOP 422 50 Mbps IPEG2 LGOP 422 50 Mbps
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IPEG2 LGOP 420 (FULL) 35 Mbps
VCAM 25 Mbps
AVC Intra 50 / 100 Mbps
AVC Intra 300 / 300 VBR / 480 / 480 VBR Mbps
AVC LGOP 25 / 35 / 50 Mbps
AVC LGOP 60 / 100 / 140 / 150 / 200 Mbps
VCPRO 25/50 Mbps / DVCPRO HD 100 Mbps
VC-Intra 50/100 Mbps
VC-Intra 200 Mbps
VC-Intra 2K422
VC-Intra 4K422
VC Ultra (LGOP 6/12/25/50 Mbps)
NxHD (SQ/HQ/HQX/LB)
NxHR (SQ/HQ/HQX/LB)
.264 4320P 80 - 150 Mbps High Profile
.264 4320P 150 - 280 Mbps High Profile
.264 2160p 35 - 68 Mbps High Profile
.264 1440p 16 - 24 Mbps High Profile
l.264 1080p 8 - 12 Mbps High Profile
l.264 720p 5 - 7.5 Mbps High Profile
.264 480p 2.5 - 4 Mbps High Profile
l.264 360p 1 - 1.5 Mbps High Profile
l.264 2160p 13 - 51 Mbps High Profile (Live)
.264 1440p 6 - 18 Mbps High Profile (Live)
I.264 1080p 3 - 9 Mbps High Profile (Live)
l.264 720p 1.5 - 6 Mbps High Profile (Live)
l.264 480p 0.5 - 2.0 Mbps High Profile (Live)
l.264 360p 0.4 - 1.0 Mbps High Profile (Live)



H.264 L10 10 Mbps H.264 M0G 1Mbps H.265/HEVC 10 Mbps LGOP H.265/HEVC 25 Mbps LGOP H.265/HEVC 100 Mbps LGOP H.265/HEVC 4X 50 Mbps LGOP H.265/HEVC 8X 50 Mbps LGOP H.265/HEVC 8X 100 Mbps LGOP H.265/HEVC 8X 100 Mbps LGOP H.265/HEVC 8X 120 Mbps LGOP H.265/HEVC 8X 122 LGOP H.265/HEVC 8X 42:2 LGOP ND HX H.264 - High Profile ND HX H.264 - High Profile ND HX H.264 - High Profile MPEO-5 EVC Baseline Profile MPEO-5 EVC Main Profile MPEO-5 EVC Main Profile ProRes 422 (S0/HQ/LT) ProRes 4244XQ Google® VP6 / VP7 / VP8 / VP9 (Full HD) Uncompressed UVVY 422 / V10 / RGBA AOMedia Video 1 (4K) AOMedia Video 1 (4K)	H.264 240p 0.3 - 0.7 Mbps High Profile (Live)
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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 8K 100 Mbps LGOP H.265/HEVC 4K 2:2 LGOP H.265/HEVC 4K 2:2 LGOP H.265/HEVC 4K 2:2 LGOP M.1265 / HEVC 8K 2:2 LGOP ND HX H.264 - High Profile ND HX H.264 - High Profile ND HX H.265 - High Profile MPEG-5 EVC Baseline Profile MPEG-5 EVC Baseline Profile MPEG-5 EVC Main Profile ProRes 422 (SQ/HQ/LT) ProRes 4444 ProRes 4444Q Google® VP6 / VP7 / VP8 / VP9 (Full HD) Uncompressed UYVY 422 / V210 / RGBA	H.265/HEVC 50 Mbps LGOP
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H.265/HEVC 8K 50 Mbps LGOP H.265/HEVC 8K 100 Mbps LGOP H.265/HEVC 4K 2:2 LGOP H.265/HEVC 4K 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 4444Q Google® VP6 / VP7 / VP8 / VP9 (Full HD) Uncompressed UYVY 422 / V210 / RGBA AOMedia Video 1 (Full HD)	H.265/HEVC 4K 50 Mbps LGOP
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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 4444Q Google® VP6 / VP7 / VP8 / VP9 (Full HD) Uncompressed UYVY 422 / V210 / RGBA AOMedia Video 1 (Full HD)	H.265/HEVC 8K 4:2:2 LGOP
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ProRes 4444 ProRes 4444XQ Google® VP6 / VP7 / VP8 / VP9 (Full HD) Uncompressed UYVY 422 / V210 / RGBA AOMedia Video 1 (Full HD) AOMedia Video 1 (Full HD)	MPEG VVC/H266 Main Profile
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Google® VP6 / VP7 / VP8 / VP9 (Full HD) Uncompressed UYVY 422 / V210 / RGBA AOMedia Video 1 (Full HD) AOMedia Video 1 (4K)	ProRes 4444
Uncompressed UYVY 422 / V210 / RGBA AOMedia Video 1 (Full HD) AOMedia Video 1 (4K)	ProRes 4444XQ
AOMedia Video 1 (Full HD) AOMedia Video 1 (4K)	Google® VP6 / VP7 / VP8 / VP9 (Full HD)
AOMedia Video 1 (4K)	Uncompressed UYVY 422 / V210 / RGBA
	AOMedia Video 1 (Full HD)
AOMedia Video 1 (8K)	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) 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)



Output Video Formats

mDECK

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 Sytems	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 UnityTM 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-XPD1E / AU-XPD3EJ)	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
BM: 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, PDV 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)
Archiware P5	Dante *Negotiated separately		



Server Options

Features			Specs
System	Platform		Dell R760
	GPU		2x Nvidia A2
	Video IO		2x DeckLink 8K Pro
	AVC Hardware Encoder		2x Matrox
	Storage Drive		8TB SSD
	Operating System Drive		2x 480GB RAID 1
	Operating System		Windows 10 Enterprise (LTSC)
	Networking	1Gb Ethernet Port	2
	Networking	10Gb Ethernet Port SFP+	4
/ity	Video	VGA Out	1
ictiv	USB	2.0	1
Connectivity	035	3.0	1
ပိ	BNC 12G In/Out		8
	Ref. In		2
	Power Requirements		Dual 1400W
	Peripheral Module**	LTC Input	1
vity		Audio Out	1
Extended Connectivity		Breakout Connector	1
:xte		RS422	4
۳ <u>۵</u>	Breakout Cable**	GPO branch with 4 outputs	1
		GPI branch with 4 inputs	1
	Dimensions & Weight		2RU, 772x482x86.8mm (D, W, H), ~40 kg
	Delivery Packaging		970x660x310mm (D, W, H), ~45Kg
Other	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 av, 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 av supports up to 16 media operations at the same time. Within this margin, you can combine the operations shown in the table below:

	Concurrent M	edia Operations	
Record	Ingest & Transcode	Playback	File Preview
Up to 16 live channels being: SDI: 4 UHD/8 FHD IP Stream: 4 UHD/16 FHD	Up to 4 operations	Up to 16 live channels being: SDI: 4 UHD/8 FHD IP Stream: 4 UHD/16 FHD	Up to 5 files preview

Note: when using operations dependent on video inputs and outputs, the physical limit of the video cards must be respected. Thus, the sum of these operations cannot be greater than 8, but when using the AVC encoder, the limit is 4 UHD.

Product

Part Number	Product	Description
mdgrav	mueuk Grand av	Deck appliance for hybrid workflows with additional XAVC & AVC-Ultra hardware encoder accelerator of up to 16 combined media operations



Available Options

Choose from the products below to customize the mDECK Grand av 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.

Bit International Control Contr

mPLAN

Setup scheduled events not only from the standard scheduler but through a unique roll out 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.

mpam1usw mPAM Content and production asset manager per licensed user	Part Number	Product	Description
	mpam1usw	mPAM	Content and production asset manager per licensed user
mgslsb mPLAN Scheduler & Router Control per licensed channel	mgslsb	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
cnnsmop	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	Al 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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