



mDECK Solid io



Overview

Take your content production to the next level with mDECK Solid io, a professional media deck that ensures incredible reliability and elasticity with the combination of record, ingest, transcode, and playback operations in 4K, UHD, FHD, and NDI. All in a single box and with users working together as a group.

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

Additionally, it has an option for local storage of 8TB, PSU redundancy, and an OS Drive.



Highlights

- mPAM Content and production asset manager for up to 4 users
- mSWITCH Remote live switching and composing
- mTALK Audio communication between users
- · Live to live multiple simultaneous records
- Batch capture
- Closed captions
- Multiple simultaneous transcodes
- File playback multiple simultaneous plays
- Metadata preservation, enhancement, and enrichment
- Playlist management

- Media checksum
- Quality control, audio, and video report
- Flexible file naming and renaming engine
- Locators support
- Automated file ingest
- Supports spanned clips
- Proxy generation
- Playout 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
- Broadcast/Digital News
- OTT & Streaming
- System Integrators/Rentals





Timecode support

LTC (SMPTE 12M)

VITC (SMPTE RP188)

Time of Day

From VTR (BVW) - 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

Hide unused Capture Instances

Synchronized gang captures

Ability to choose which channels are present in the gang

Frame Chase editing

Unlimited capture duration support

Loop record support

Extend playlist maximum duration in Loop Record workflows

Perform Loop record captures through automatic jobs

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

Generation of MP4 files as fragmented MP4 with DCP packager

Generate XML sidecars with WAV file as output while recording

Perform "Run after completion" scripts

Live Probing option

Stream Closed Captions

Edit a Workflow directly from the Player

Option to start timecode recording from 00:00:00:00

Export MOG playlist (.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)

Operation modes

Automatic

Manual

Scheduled

Clipnaming

Flexible file renaming engine

Create multiple and diverse Clipnaming templates

Clipnaming based under 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

Time Zone Support when the "CreationDate" field is selected

Support to append "_p" to proxy clip names

Multi-Configuration metadata management and enrichment

Internal asset management

Quickly search for assets metadata

Metadata management

Metadata generation on capture operations

Metadata fields - prevent overwrite

Protection of metadata fields

Delete custom metadata

Edit group clip metadata

Edit source metadata based on a metadata profile

"Description" field editable in metadata widget

"Description" field as a column in the asset explorer list view

Send metadata to Gang Captures

Favorite metadata fields

Create custom metadata fields





Rating metadata field

Metadata source update directly in the metadata widget

Add asset tags insertion in preset list

Support re-using lists of possible values

Update Metadata in Media Central/Interplay using AMT-3 library

Ability to rename media in Interplay after capture began

Take field (counter)

Support for "Reel" metadata field using Apple ProRes Wrapper

Read metadata from cloud storage (Amazon S3 / Google Cloud Storage / Tencent / IBM Cloud Object Storage)

Preserve Arri specific fields

Preserve RED digital cinema color information

Find immediately and learn everything about any asset

Asset Browser - Show/hide proxies

Asset Browser - Sort, order, and search

Asset Explorer - Resizable thumbnails

Asset Explorer - Support asset availability

Asset Explorer - Search all

Asset Explorer - Extraction of thumbnails and posters while indexing

Asset Explorer - Playable thumbnails

Asset Explorer - Pop-up player

Asset Explorer - View the exact duration of files with more than 24 hours

Asset Selection -View the total duration of the selected assets

Asset Selection - Configurable asset 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

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)

PCM 96KHz support

Independent audio encoder for hires and proxy

Individual audio mapping 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

Mute proxy option in 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 Closed Captions

Locators

Create locators with shortcut keys

Edit and delete locators

Edit locators description

Insertion and viewing

Action fields creation and customization

Comments insertion in a markers widget tab

Locators source in markers widget

Multiple subcategories for a locator

Order asset locators by timecode Absolute timecode for source locators

Enter Timecode without the need of entering colons

Eject locators using the player eject button

Locators merge

Support for locators with AMT captures

Send locators to gang captures

Send locators to playout

Preserve Metadata Enhancement locators created by an Automatic Job





Scheduler (Calendar View)

Scheduled Record

Scheduled Automatic Jobs via Scheduler

Edit individual events

Allow editing of settings for each occurrence/repetition

Configure the number of events repetitions

Check collision between events with 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

Pre-set naming templates

Independent targets and multiple outputs support

Capability to set a maximum capture duration

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

Possibility to use the calendar notion option in order to adjust for daylight saving time automatically

Ability to edit Start Time field after the first recording

Visualize scheduled events in a List View

Export activity events

Perform captures from a MOG S1000

Perform captures from an Airspeed 5000

Perform captures from a Softron Movie Recorder

Signal error detection and related recovery actions

Signal error detection

Drop frame detection

Timecode breaks support

Configurable capture resume methodology

Automatic streaming (headless) - Restart capture after stopping/crashing or rebooting

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

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

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

Live switcher - Capture switcher producer

Commute between channels while recording

Record audio and video from one channel, or just audio or video

Playout from SDI Inputs

Playout from Streams Inputs

Playout from File Inputs





Overlay graphics support

Chroma Key as Input

File ingest

Multiple simultaneous transcodes

Batch ingest

Card ingest

Clip merge

Clip renaming

Disable Clip File Naming generation

Partial restore

Rough cut

Insert Subclips SOM and EOM without colons

Automatic drag and drop ingest

Drag and drop from social networks

Generate XML sidecar with WAV file as output while ingest

Generate a .xml file for each output AVID clip or AVID sequence

Merge as Sequence from MP4 proxy files

Automatically select workflows available in job control attending the source files

Allow the creation of clip cuts in growing files to be added to a playlist for playout

Directly select the storage on the dashboard instead of accessing workflow profiles

Copy assets

Group Assets - Group the resulting outputs into a single asset

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 ingest

Use 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

Do not overwrite files option

Support for .MOV files containing "Run-length encoding" video essence

Enable "growing" support on EDL ingest workflow

Merge as EDL independent of input format

Merge Trimmed files

Merge files with different framerates

Merge P2 with different audio channels

Merge operations for Devices sources

Allow 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)

Edit decision lists with cut points

Display the total duration of sub-clips on Edit Decision List widget

Ingest from cloud locations

Digital Cinema Package (DCP) support

DCP Packager - Possibility to force fragmented MP4 while uploading to S3 buckets

Generation of MP4 files as fragmented MP4 with DCP packager

Digital Picture Exchange (DPX) support

IMF (Netflix Compliant) output metadata

FTP for generic network devices as input

Ability to delete OPAtom source files Support for GOPRO spanned files

Support video with vertical rotation

MOG file package support

Support MOG Package from Cloud Storages

Outgest growing media from Interplay

HDR (PQ, HLG) conversion to SDR as output

Support for image files ingest

Support 48fps drop frame media (DJI Camera Drones)

Support for spanned clips

XDCAM support for spanned & merge clips in network locations/network devices

Delete Output on Job Abort

Schedule ingest (Calendar) - Automatic Job

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"

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

Live Ingest Operations





Live sources available in asset browser/explorer

Override start timecode

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

Quality control - Report

Video Report

Black frames detection

Video freeze detection

Scene change detection

Audio Report

Audio clipping detection

Loudness detection

Silence detection

Others

Timecode gap detection

Automated ingest

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

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

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

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

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

Input/output social media *Optional

Google Chrome Social-m Plugin

Social-m - Add support for live stream capture

Metadata in Chrome Social-m Plugin

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

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 detector

Check-in via metadata update

Check-in via workflow

Interactive approval workflows

MOG player proxy

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

Al Upscale

Reduce video flashing

Additional AI Operations

Face recognition 2.0

Face recognition - Support dataset with multiple images for each person

Age prediction detection

Object detection 2.0

Optical Character Recognition (OCR)

Speech recognition 2.0 (with ability to detect non speech tokens)

mTALK

Audio communication between users

QR code implementation

WebApp (requires Android smartphone)

Toggle Mode

Analytics

Google Analytics and Tag Manager integration

Option to enable and disable Analytics

Track menu events

Video metrics

Track job control widget events

Track asset explorer widget events

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

DASH/HLS packager with DRM

"Keep me signed in" login option

User Verification through email

Configurable password visibility in logs

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)

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

SMTP E-mail Notifications

Support an external Database

Microsoft Edge / Firefox and Chrome Support

Unified Interface User Experience

Configurable web interface access port

Embeddable Dashboards/Widgets

Web-Based Interface with video preview

Dashboards based experience where users can create their own personalized view

Dashboards presets for ease-of-use deployment





Features
Create custom dashboard templates
Import and export of users Dashboards
Associate same dashboards to multiple users
LDAP user authentication
User profile management
Users permissions control
Widget based modular interface
Lock/Unlock widgets permission
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
View which servers in a group are running Capture and Ingest Operations in a Group activity widget
Possibility to remove quick edit button from Job Control widget
Permissions to activate or deactivate settings of Gang Capture widget
Multiviewer
Configurable quality and target latency of the preview stream
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
Factory data reset
Erase all data and reset the system
Force clear cache

Technical Specifications

Supported File Inputs

- очрр	ortea riie inputs
	Inputs
	Plain Files or Structures
	ARRI ALEXA Cameras
	BlackMagic Cameras
	RED Digital Cinema
	Avid Files
	Avid Media Files (standalone or Nexis/ISIS)
	Avid Sequences (master clips and rendered sequences)
	CANON DSLR 5D, 7D, C300, C100
	GoPro Cards
	IKEGAMI GFPAK
	JVC (AVC HD models)
OnPrem	NextoDI NSB-25
OliFielli	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





Network XDCAM Network P2 Network ARRI RAW Network Ikegami Network Storage Avid ISIS / 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 & XX NAS Storage EMC Isilon QNAP Studio Network Solutions EVO Oracle Storage Netapp Social Media Facebook X (Tivitter) Vimeo YouTube Professional Cloud Storages Adobe Creative Cloud Amazon S3 Glacler Microsoft Azure Storage Nicrosoft Azure Storage Nicrosoft Azure Storage Nicrosoft Azure Storage Loudlink Cloud NAS		Inputs
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X (Twitter) Vimeo YouTube Professional Cloud Storages Adobe Creative Cloud Amazon S3 Glacier Microsoft Azure Storage Cloud Tencent		Social Media
Vimeo YouTube Professional Cloud Storages Adobe Creative Cloud Amazon S3 Glacier Microsoft Azure Storage Cloud Tencent		Facebook
YouTube Professional Cloud Storages Adobe Creative Cloud Amazon S3 Glacier Microsoft Azure Storage Cloud Tencent		X (Twitter)
Professional Cloud Storages Adobe Creative Cloud Amazon S3 Glacier Microsoft Azure Storage Cloud Tencent		Vimeo
Adobe Creative Cloud Amazon S3 Glacier Microsoft Azure Storage Cloud Tencent		YouTube
Amazon S3 Glacier Microsoft Azure Storage Cloud Tencent		Professional Cloud Storages
Microsoft Azure Storage Cloud Tencent		Adobe Creative Cloud
Cloud Tencent		Amazon S3 Glacier
		Microsoft Azure Storage
Lucidlink Cloud NAS	Cloud	Tencent
		Lucidlink Cloud NAS
Google Cloud Storage		Google Cloud Storage
IBM Cloud Object Storage		IBM Cloud Object Storage
Generic S3 storages		Generic S3 storages
Consumer Cloud Storages		Consumer Cloud Storages
Apple I Cloud Drive		Apple I Cloud Drive
Dropbox		·
Google Drive		Google Drive
Microsoft One Drive		Microsoft One Drive

Supported File Outputs

	Outputs
	Avid ISIS / 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
OnPrem	ScaleLogic NX2 & ZX NAS Storage
	EMC Isilon
	QNAP
	Studio Network Solutions EVO
	Oracle Storage
	Netapp
	FTP Servers (List on request)
	Generic File Shares
	Consumer Cloud Storages
	Apple I Cloud Drive
	Dropbox
Cloud	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





	Outputs
	Google Cloud Storage
	IBM Cloud Object Storage
	Generic S3 storages
Cloud	Social Media *Optional
Cloud	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)
	Streams
	Video Content Hyperlinks
	HLS
	MPEG-TS
Live	MPEG-DASH
	RTMP (with support for HEVC / VP9 / AV1)
	RTP
	RTSP
	NewTek NDI
	UDP
	Haivision SRT
	WebRTC
	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)
	12G-SDI (Quad-Link 3G-SDI)
	Streams
	HLS
	Microsoft Smooth Streaming
	MPEG-DASH
	Low Latency Dash - LL-Dash
	NewTek NDI
	MPEG-TS
	RTMP (with support for HEVC / VP9 / AV1)
Live	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)
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 LGOP 25 / 35 / 50 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
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 4:2:2 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 4444XQ
JPEG 2000 (Full HD)
JPEG 2000 (4K)
Google® VP6 / VP7 / VP8 / VP9 (Full HD)
Uncompressed UYVY 422 / V210 / RGBA
AOMedia Video 1 (Full HD)
AOMedia Video 1 (4K)
IMF (JPEG 2000 @ Full HD)
IMF (JPEG 2000 @ 4K)





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 LGOP 25 / 35 / 50 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 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 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
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
JPEG 2000 (Full HD)
JPEG 2000 (4K)
Google® VP6 / VP7 / VP8
Google® VP9 (Full HD)
Google® VP9 (4K)
Uncompressed UYVY 422 / V210 / RGBA
AOMedia Video 1 (Full HD)
AOMedia Video 1 (4K)
IMF (JPEG 2000 @ Full HD)
IMF (JPEG 2000 @ 4K)





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 *

Outside OTT Familia
Output OTT Formats
H.264 2160p 35 - 68 Mbps High Profile
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.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, Workgroup 9	AVID Interplay	Panasonic CX350 HEVC	Lumen
BlackMagic: DaVinci Resolve Studio	AVID Media Central UX	Panasonic PTZ Cameras	Fastly
Autodesk: Flame	AVID Media Central Cloud UX	Ikegami Gfpack	Akamai Technologies
Storage	AXLE MAM	JVC AVC HD camera models	Microsoft Azure
AVID ISIS Storage	Editshare Flow	LUMIX DC-S1H	Cloudflare
AVID Nexis Storage	MOG Vizzi	NewTek PTZ3 UHD Camera	Limelight Networks
Avid UnityTM MediaNetwork	Medialoopster MAM	NewTek PTZ3 Camera	Amazon CloudFront
Dynamic Drive Pool SAN Storage	Professional Cloud Storages	RED Digital Cinema	BootstrapCDN
Facilis Terrablock	Adobe Creative Cloud	GOPRO	StackPath
Harmonic MediaGrid	Amazon EC2	Card Readers	KeyCDN
Quantum: Storenext	Amazon S3	Panasonic P2 (AJ PCD 2 / AJ PCD 20/30/35)	Rackspace
Scalelogic: NX2 & ZX NAS Storage	Amazon S3 Glacier	Panasonic P2 (AJ MPD1)	Alibaba Cloud Content Delivery Service
Editshare EFS	Microsoft Azure Storage	Panasonic P2 (AU-XPD1E / AU-XPD3EJ)	CacheFly
EMC: Isilon	Microsoft Azure Virtual Machines	Panasonic P2 (AG HPG 20)	Verizon
QNAP	Tencent: Cloud Storage	Sony XDCAM EX (SxS Cards): SBAC-US10/20/30	Social Media *Optional
Studio Network Solutions: EVO	Lucidlink Cloud NAS	Sony XDCAM EX (SxS Cards): SBAC-UT100	Facebook
Oracle Storage	Google Cloud Storage	Sony XDCAM EX (SxS Cards): MRW E-80	Twitch
Netapp	IBM Cloud Object Storage	Sony XDCAM EX (SxS Cards): MRW E-90	X (Twitter)
Transfer Acceleration Protocols	Generic S33	Sony Disc Reader: PDW-U1, PDW-U2	YouTube
File Catalyst Direct	Stream	VTR Decks	Vimeo
IBM: Aspera File Transfer	Newtek NDI	XDCAM HD: Disc (PDW 1500, PDW HD1500)	
Peripheral Devices	Haivision SRT	XDCAM HD: Disc (PDW F70)	
Countour Shuttle Pro V2	Structures	XDCAM Station (XDS1000)	
Elgato Stream Deck	XAVC Structures		

Server Options

	Features		Specs
	Platform		Dell XR12
F	GPU		1x Nvidia A2
ē	Video IO		1x DeckLink 8K Pro
System	Storage Drive		8TB SSD**
•	Operating System Drive		480GB RAID 1
	Operating System		Windows 10 Enterprise (LTSC)
	Networking	1Gb Ethernet Port	2
	•	10Gb Ethernet Port SFP+	4
<u>₹</u>	Video	VGA Out	1
Connectivity	USB	2.0	1
jec	OOD	3.0	1
ဋ	Serial		1
ŏ	BNC 12G In/Out		4
	Ref. In		1
	Power Requirements		Dual 1400W
>	Peripheral Board**	LTC Input	1
×;		Audio Out	1
nd cti		Breakout Connector	1
Extended Connectivity	Breakout Cable	RS422	4
ωğ		GPO branch with 4 outputs	1
		GPI branch with 4 inputs	1
	Dimensions & Weight		2RU, 463x482x86.8mm (D, W, H), ~20.5 kg
Other	Delivery Packaging		470x487x92mm (D, W, H), ~25Kg
	Temperature	Storage**	-40°C to 65°C (-40°F to 149°F)
ğ		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 Solid 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, ingest, transcoding, playback, file preview, live channel switching, and intercom.

mDECK Solid io supports up to 6 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	Ingest & Transcode Playback File Preview Live Switch Intercom			
Up to 4 live channels	Up to 1 operation	Up to 4 playback files	Up to 5 files preview	Up to 1 operation	Up to 1 operation

Note: when using operations dependent on video inputs and outputs, the physical limit of the video card must be respected. Thus, the sum of these operations cannot be greater than 4.

Product

Part Number	Product	Description
mdslio	mDECK Solid io	Deck appliance for hybrid workflows of up to 7 combined media operations

Available Options

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

Production Tools

Tools for asset management and workflow orchestration.



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.

Part Number	Product	Description
mpla4c	mPLAN	Scheduler & Router Control of up to 4 channels

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

Add-ons

Output options to complement your workflows.

Part Number	Product	Description
sloasa	OTT & Social media	Multiple output resolutions for OTT & Simultaneous social media shares

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

Plugins

Complement any media production and distribution workflow with turnkey plugins and extensions.



Social-m

Quickly fetch and publish your live or VoD contents to social media.

This social media plugin for Chrome will let users ingest media without having to access the mDECK GUI, allowing the content to be ready for editing or any other task, in no time. Simply open the plugin, insert the URL and run the workflow to fetch your video, with option to preserve metadata.



Screen-m

Quickly capture and deliver your screen contents to your production environment.

Easily record your screen in its entirety or choose one of the open windows. You can even enable the capture of a microphone and the mouse cursor to make it easier to explain any presentation.

Part Number	Product	Description
smpi	Social-m plugin	Social media capture & Publishing
scpi	Screen-m plugin	Screen capture & Delivery

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





Artificial Intelligence

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

	Pofoult (always) included
	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 Al Operations			
Part Number	Product			
slaifr	Face Recognition and Age Prediction			
slaiod	Object Detection			
slaicr	Optical Character Recognition			
slaisr	Speech Recognition			

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

Cards

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

Part Number	Product	Description
pcbx	Peripheral card	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.

Storage

Option for local storage.

Part Number	Description
mdslssd8t	8TB of SSD storage

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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