



## mDECK Densu tl

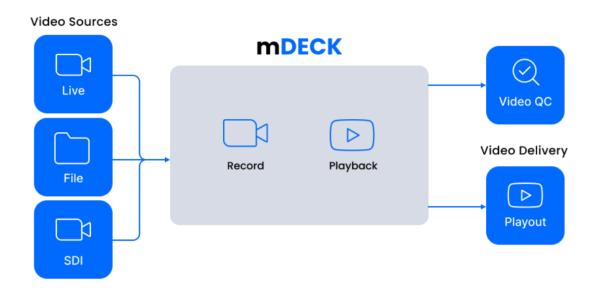


## **Overview**

Boost your team's performance with mDECK Densu tl, a professional dual-node media deck that can combine operations of record and playback content in FHD and NDI from XDCAM and P2 structures directly to HDD or SSD removable drives.

mDECK Densu tl supports combinations of media operations and guarantees a universe of distinct arrangements to suit the different activities of each day.

Additionally, it comes with PSU redundancy, an OS drive, and can be pre-configured to support IP Live workflows.



# **Highlights**

- Live to file multiple simultaneous records
- File playback multiple simultaneous plays
- All media operations can simultaneously use the local hard drives
- Metadata preservation, enhancement, and enrichment

- · Flexible file naming and renaming engine
- Playlist management
- Supports spanned clips
- Proxy generation

## **Specially Designed For**

- Educational/Government
- Live Entertainment/Worship
- Corporate
- Sports

- Film/TV Studio/Scripted
- Digital News
- Mobile Studios/OB Vans
- Television/Broadcasting



# **mDECK**

**Features Features 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 Conceal/Hide option for unused Capture Instances Synchronize (different) Gang Captures Flexible Gang Capture channel configurations / Choose which channels are present in the gang Unlimited capture duration support Loop record support Extend a playlist's maximum duration in a Loop Record workflow Perform Loop record captures through automatic jobs 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 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 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 **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

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

Preserve specific Arri fields

#### 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

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

## **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

Preserve Metadata Enhancement locators created by an Automatic Job

#### Scheduler (Calendar View)

Schedule a Record operation

Scheduled Automatic Jobs via Scheduler

Edit individual 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

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

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

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

## Checksum media

MD5 hash file

MDL - Media hash list

## Live to Live

Delete artifacts on abort

Support Live Stream from sCapture as rPlayout input

## 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

#### WebRTC

h.264 Support

**VP8 Support** 

VP9 Support

## File ingest

Disable Clip File Naming generation

Ingest while growing

Automatic drag and drop ingest

Drag and drop media from several social networks

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

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

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

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

HDR (PQ, HLG) conversion to SDR as output

Ingest image files

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

Ingest and/or transcode the contents according to the destination format

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

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

#### **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**

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

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

## **PAM - Production Asset Management**

Flexible metadata management

## mTALK

Communicate via audio between two or more users

QR code implementation

WebApp (requires Android smartphone)

Toggle Mode





#### **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

#### 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

Opt to "Keep me signed in"

Send a 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

Intel QSV

## **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

Control XPRESS display panel with peripheral API

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**

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

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

High contrast theme

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
Notifications of required actions needed to resume a workflow
Monitor Grouped Servers' activity in a Group Activity Widget
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 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
	Plain Files or Structures
	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
OnPrem	Sony XDCAM HD: Disc (PDW-U1, PDW-U2, PDW-U4)
	XAVC Structures
	DJI (Camera Drones)
	Network
	XDCAM Network
	P2 Network
	ARRI RAW Network
	Ikegami Network
	Social Media
	Facebook
	X (Twitter)
	Vimeo
Cloud	YouTube
Olouu	Professional Cloud Storages
	Adobe Creative Cloud
	Amazon S3 Glacier
	Microsoft Azure Storage
	Tencent





	Inputs
Cloud	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	Removable Disks		
	HDD 2.5"		
	SSD 2.5"		

# **Supported Live Inputs**

	Inputs
	SD/HD/FHD-SDI
	SD-SDI (SMPTE 259M)
	3G-SDI (SMPTE 292M, SMPTE296M, SMPTE372M, SMPTE425M)
	Streams
	Video Content Hyperlinks
	HLS
	MPEG-TS
	MPEG-DASH
	RTMP (with support for HEVC / VP9 / AV1)
	RTP
	RTSP
	NewTek NDI
	UDP
Live	Haivision SRT
LIVE	WebRTC
	Zixi
	Audio
	Dante audio *Negotiated separately
	Social Media
	Facebook
	Twitch
	X (Twitter)
	YouTube
	IP Live *Optional
	ST2022-6
	ST2022-7
	ST2110-10, ST2110-20, ST2110-21, ST2110-30, ST2110-31
	ST2110-40
	ST2110-10, ST2110-20, ST2110-21, ST2110-30, ST2110-31





# **Supported Live Outputs**

	Outputs
	SD/HD/FHD-SDI
	SD-SDI (SMPTE 259M)
	3G-SDI (SMPTE 292M, SMPTE296M, SMPTE372M, SMPTE425M)
	Streams
	HLS
	Microsoft Smooth Streaming
	MPEG-DASH
	Low Latency Dash - LL-Dash
	NewTek NDI
	MPEG-TS
Live	RTMP (with support for HEVC / VP9 / AV1)
LIVO	RTP
	RTSP
	UDP
	Haivision SRT
	WebRTC
	Vizzi
	Live Output
	IP Live *Optional
	ST2022-7
	ST2110-10, ST2110-20, ST2110-21, ST2110-30, ST2110-31
	ST2110-40

## **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
MPEG-5 EVC Baseline Profile
MPEG-5 EVC Main Profile
MPEG VVC/H266 Main Profile







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
MPEG-5 EVC Baseline Profile
MPEG-5 EVC Main Profile
MPEG VVC/H266 Main Profile

## **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





# **Product Integrations**

Editing Sytems	Card Readers	Cameras
Adobe Premiere Pro	Panasonic P2 AJ PCD 2	Canon (DSLR5D, DSLR 7D, DSLR C300, DSLR C100)
AVID Media Composer	Panasonic P2 AJ PCD 20/30/35	ARRI Alexa XT (ARRIRAW)
AVID Media Central UX	Panasonic P2 AJ MPD1)	Panasonic AU-EVA1
AVID Media Central Cloud UX	Panasonic P2 AU-XPD1E	Panasonic GH5 Cameras
Apple Final Cut Pro X	Panasonic P2 AU-XPD3EJ	Panasonic CX350 HEVC
Edius: Pro 8, Workgroup 9	Panasonic P2 AG HPG 20	Panasonic PTZ Cameras
BlackMagic: DaVinci Resolve Studio	Sony XDCAM EX (SxS Cards): SBAC-US10/20/30	Ikegami Gfpack
Autodesk: Flame	Sony XDCAM EX (SxS Cards): SBAC-UT100	JVC AVC HD camera models
Stream	Sony XDCAM EX (SxS Cards): MRW E-80	LUMIX DC-S1H
Newtek NDI	Sony XDCAM EX (SxS Cards): MRW E-90	NewTek PTZ3 UHD Camera
Haivision SRT	Sony Disc Reader: PDW-U1	NewTek PTZ3 Camera
Zixi	Sony Disc Reader: PDW-U2	RED Digital Cinema
VTR Decks	Peripheral Devices	GOPRO
XDCAM HD: Disc PDW 1500	Countour Shuttle Pro V2	Social Media
XDCAM HD: Disc PDW HD1500	Elgato Stream Deck	Facebook
XDCAM HD: Disc PDW F70	Archive	Twitch
XDCAM Station (XDS1000)	Archiware P5	X (Twitter)
Structures	Audio	YouTube
XAVC Structures	Dante *Negotiated separately	Vimeo

# **Server Options**

	Fea	atures	Specs
	Platform		Densu 2U
E	Video IO		2x DeckLink miniDuo2
System	Operating System Drive		480GB
	Operating System		Windows 10 Enterprise (LTSC)
	Drive Bay		4x Trayless Bay 2,5" 7mm
	Networking	1Gb Ethernet Port	2
		2.5Gb Ethernet Port	2
	Video	Display Port	2
	video	HDMI	2
	USB	2.0	4
	USB	3.0	8
ity	HD BNC I/O		8
Connectivity	Ref. In		2
nne	Live IP Port**		2
ပိ	LTC Input		2
	Audio Output		2
	Breakout Connector		2
	Power Requirements		Dual 300W
		RS422	8
	<b>Breakout Cable</b>	GPO branch with 4 outputs	2
		GPI branch with 4 inputs	2
	Dimensions & Weigh	t	2RU, 245x484x89mm (D, W, H), ~13Kg
<u>.</u>	<b>Delivery Packaging</b>		580x380x250mm (D, W, H), ~14Kg
Other	Temperature	<b>Continuous Operation</b>	10°C to 32°C (50°F to 89.6°F)
-0_	What is Included	Power Cable	2x C13 to C14
		Other	4x rack mount screws

<sup>\*\*</sup> Not included by default





## **Concurrent Media Operations**

With mDECK Densu tl, 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, playback, and file preview.

mDECK Densu tl supports up to 3 media operations per node at the same time. Within this margin, you can combine the operations shown in the table below:

Concurrent Media Operations			
Record	Playback	File Preview	
Up to 2 live channels per node	Up to 1 playback files per node	Up to 5 files preview	

## **Product**

Part Number	Product	Description
mddntl	mDECK Densu tl	Compact dual-node deck appliance with support for XDCAM and P2 structures of up to 3 combined media operations per node

# **Available Options**

Choose from the products below to customize the mDECK Densu tl according to your business rules.

## Add-ons

Output option to complement your workflows.

Part Number	Product	Description
s2ioiplk	IP live kit	IP media production infrastructure

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

Contact our sales team at <a href="mailto:sales@mog-technologies.com">sales@mog-technologies.com</a> to find out how to purchase or in case you need more information.

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