

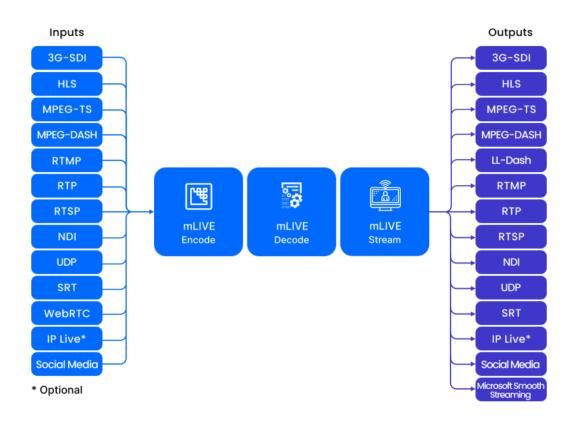
mLIVE Densu io

Overview

mLIVE Densu io is a powerful and flexible compact appliance to manage all your live video streams in an integrated media production ecosystem.

It brings you unparalleled power and proven reliability, no matter the scenario. Broadcast live events, automate 24/7 channels playout, or distribute to OTT and social media effortlessly, no matter the source.

mLIVE Densu io supports simultaneous media operations that can be a combination of live video streams, file previews, live switching, and even intercom between different users.



Highlights

- mSWITCH Remote live switching and composing
- mTALK Audio communication between users
- Full featured local and remote user interface (includes quick control through touch screen)
- Encodes and/or decodes contents according to the destination format

Specially Designed For

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

- Multiple output resolutions for OTT
- Operation modes: manual and scheduled
- Ideal for multiple feeds of video contribution
- Social media sharing
- Post-Production
- Broadcast/Digital News
- OTT & Streaming
- System Integrators/Rentals



Features

imecode support	
LTC (SMPTE 12M)	
VITC (SMPTE RP188)	
Time of Day	
lultiple LIVE and simultaneous records	
Gang Capture operations	
Independent workflow selection in Gang Captures	
Flexible Gang Capture channel configurations / Choose which channels are present in the gang	
Automatic Stream Control - Detect input streams and start recording automatically	
Continuous live stream capture	
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 Contribution Web Video Disuer - Access marker Safe Area Marker and Conter marker	
Contribution Web Video Player - Aspect marker, Safe Area Marker, and Center marker	
Player Overlay - Center Dot and Cross Support for Active Format Description (AED)	
Support for Active Format Description (AFD) Medialeopster Integration in Conture operations	
Medialoopster Integration in Capture operations Medialoopster Integration in Batch Capture operations	
Video Router Protocols	
Quartz	
Probel SW-P-08	
Jupiter ASCII	
Blackmagic Videohub Ethernet Protocol	
Operation modes	
Manual	
Scheduled	
Clipnaming	
Drag and Drop support	
"CreationDate" field can refer to a desired Time Zone	
udio 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	
Audio downmixing & upmixing	
Ability to mute proxy on the output	
lose captions	
CEA/EIA - 608	
Support DVB-S captions in streams	
Stream with Closed Captions	
cheduler (Calendar View)	
Schedule a Record operation	
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	
Placeholder when editing an occurrence name	



mLIVE

Features
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
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
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 a MOG S1000
Selectable MOG S1000 capture profiles
Perform captures from an Airspeed 5000
Perform captures from a Softron Movie Recorder
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
Signal error detection and related recovery actions
Detect possible signal errors
Detect possible drop frames
Configurable capture resume methodology
Automatic streaming (headless) - Restart capture after stopping/crashing or rebooting
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)
Variable Frame Rate Input
Support IGMPv3 multicast
Add possibility to change the transport stream segments duration
MPEG-TS Support
Capture of MPEG-Transport Streams
Support of MPEG-TS program IDs
NDI
Native NDI output
NDI 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





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REST API - allows interaction with RESTUl web services Notify user upon connection lost with the Server Manage viaw web interface or REST APIs for integration with automation system Configurable quality and target latency of the preview stream Logging - Add user information on flow actions Logging - Atoutured 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 preset for ease-of-use deployment Create your own custom dashboard templates Import and Experience User portile management User portile management <th>Features</th>	Features
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Receive SAITP notifications via e-mail Support an screen list stage / Friefox / Stafi and Chrone Support Configurable web inteface access port Control web inteface access port Lister permission control Users permission control Words based mothalin inteface face Control web inteface access port Control we	Logging - Add user information on flow actions
Receive SAITP notifications via e-mail Support an screen list stage / Friefox / Stafi and Chrone Support Configurable web inteface access port Control web inteface access port Lister permission control Users permission control Words based mothalin inteface face Control web inteface access port Control we	Logging - Structured Logging
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Erase all data and reset the system	
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Force clear cache	· ·
	Force clear cache



Technical Specifications

Supported Live Inputs

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	Inputs
	SD/HD/FHD-SDI
	SD-SDI (SMPTE 259M)
	3G-SDI (SMPTE 292M, SMPTE296M, SMPTE372M, SMPTE425M)
	Support for 8, 10 and 12 bits
	Streams
	Video Content Hyperlinks
	HLS
	MPEG-TS
	MPEG-DASH
	RTMP (with support for HEVC / VP9 / AV1)
	RTP
	RTSP
	NewTek NDI
	UDP
Live	Haivision SRT
LIVC	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 - NMOS IS-04 and IS-05 support

Supported Live Outputs

	Outputs
	SD/HD/FHD-SDI
	SD-SDI (SMPTE 259M)
	3G-SDI (SMPTE 292M, SMPTE296M, SMPTE372M, SMPTE425M)
	Support for 8, 10 and 12 bits
	Streams
	HLS
	HTTPS Push
	Microsoft Smooth Streaming
	MPEG-DASH
Live	Low Latency Dash - LL-Dash
Live	NewTek NDI
	MPEG-TS
	RTMP (with support for HEVC / VP9 / AV1)
	RTP
	RTSP
	UDP
	Haivision SRT
	WebRTC
	Vizzi
	Live Output



Outputs

mLIVE

	Outputs
	Social Media
	Facebook
	Twitch
	X (Twitter)
	YouTube
Live	Vimeo
	Multiple and Adaptive bitrates for the OTT
	IP Live *Optional
	ST2022-7
	ST2110-10, ST2110-20, ST2110-21, ST2110-30, ST2110-31
	ST2110-40

Formats

Output Formats

Output Video Formats
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 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 WebRTC Baseline
H.265/HEVC 10 Mbps LGOP
H.265/HEVC 25 Mbps LGOP
H.265/HEVC 50 Mbps LGOP
H.265/HEVC 100 Mbps LGOP
NDI HX H.264 - High Profile
NDI HX H.265 - High Profile
AOMedia Video 1 (Full HD)

OTT Formats

Output OTT Formats

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 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

Product Integrations

Stream	CDN's
Newtek NDI	Lumen
Haivision SRT	Fastly
Zixi	Akamai Technologies
Social Media	Microsoft Azure
Facebook	Cloudflare
Twitch	Limelight Networks
X (Twitter)	Amazon CloudFront
YouTube	BootstrapCDN
Vimeo	StackPath
Hypervisors	KeyCDN
Microsoft HyperV	Rackspace
VMWare ESX	Alibaba Cloud Content Delivery Service
Audio	CacheFly
Dante *Negotiated separately	Verizon

Server Options

Features			Specs
System	Platform		Densu 1U
	Video IO		2x DeckLink miniDuo2
Syst	Operating System Drive		480GB
	Operating System		Windows 10 Enterprise (LTSC)
	Networking	1Gb Ethernet Port	2
	Networking	2.5Gb Ethernet Port	2
	Video	Display Port	2
	VIGEO	HDMI	2
×	USB	2.0	4
tivit	036	3.0	8
Connectivity	HD BNC I/O		8
onr	Ref. In		2
0	Live IP Port**		2
	LTC Input		2
	Audio Output		2
	Breakout Connector		2
	Power Requirements		Single 300W
		RS422	8
	Breakout Cable	GPO branch with 4 outputs	2
		GPI branch with 4 inputs	2
	Dimensions & Weight		1RU, 245x484x42.5mm (D, W, H), ~7Kg
5	Delivery Packaging		580x380x250mm (D, W, H), ~8Kg
Other	Temperature	Continuous Operation	10°C to 32°C (50°F to 89.6°F)
- 0	What is Included	Power Cable	1x C13 to C14
	what is included	Other	4x rack mount screws

** Not included by default





Concurrent Media Operations

With mLIVE Densu 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 live video streams, file preview, live channel switching, and intercom.

mLIVE Densu io supports up to 8 media operations at the same time. Within this margin, you can combine the operations shown in the table below:

Concurrent Media Operations			
Live Video Streams	File Preview	Live Switch	Intercom
Up to 4 live channels	Up to 10 files preview	Up to 1 operation	Up to 1 operation

Product

Part Number	Product	Description
mldnio	mLIVE Densu io	Compact encode/decode appliance of up to 8 combined media operations

Available Options

Choose from the products below to customize the mLIVE Densu io according to your business rules.

Production Tools

Tool for 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
mpla8c m	nPLAN	Scheduler & Router Control of up to 8 channels

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

Add-ons

Output options 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.

Plugins

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



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
scpi	Screen-m plugin	Screen capture & Delivery

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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