

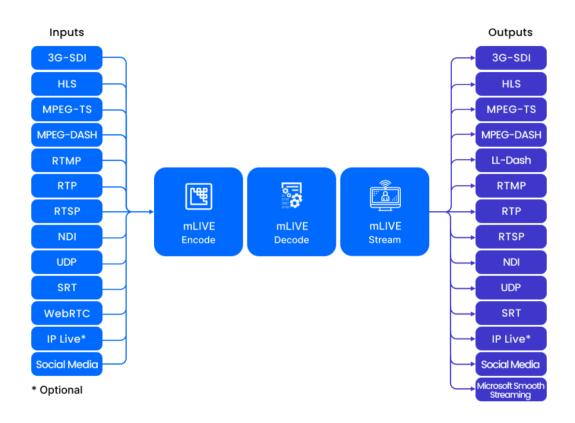
# **mLIVE** Densu io

### **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





interference           RTMC           RTMC </th <th>Features</th>	Features
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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 Orchestration Orchestration View for output workflows Services Menu that eases Group and Cluser Configurarion while displaying running servicers per node Hardware acceleration *If Hardware is installed or available Intel QSV General Purpose IN/OUT	Support for HTTP/HTTPS Ingress
User Impersonation         Token based authentication         Two-factor 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         Orchestration         Orchestration View for output workflows         Services Menu that eases Group and Cluser Configurarion while displaying running servicers per node         Hardware acceleration *If Hardware is installed or available         Intel QSV	HTTPS (Hypertext Transfer Protocol Secure) for REST API
User Impersonation         Token based authentication         Two-factor 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         Orchestration         Orchestration View for output workflows         Services Menu that eases Group and Cluser Configurarion while displaying running servicers per node         Hardware acceleration *If Hardware is installed or available         Intel QSV	Secure login
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         Orchestration         Orchestration View for output workflows         Services Menu that eases Group and Cluser Configuration while displaying running servicers per node         Hardware acceleration *If Hardware is installed or available         Intel QSV         General Purpose IN/OUT	User Impersonation
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         Orchestration         Orchestration View for output workflows         Services Menu that eases Group and Cluser Configuration while displaying running servicers per node         Hardware acceleration *If Hardware is installed or available         Intel QSV         General Purpose IN/OUT	
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Send a User Verification through email         Configurable password visibility in logs         Orchestration         Orchestration View for output workflows         Services Menu that eases Group and Cluser Configuration while displaying running servicers per node         Hardware acceleration *If Hardware is installed or available         Intel QSV         General Purpose IN/OUT	
Configurable password visibility in logs Orchestration Orchestration Orchestration View for output workflows Services Menu that eases Group and Cluser Configurarion while displaying running servicers per node Hardware acceleration *If Hardware is installed or available Intel QSV General Purpose IN/OUT	
Orchestration         Orchestration View for output workflows         Services Menu that eases Group and Cluser Configuration while displaying running servicers per node         Hardware acceleration *If Hardware is installed or available         Intel QSV         General Purpose IN/OUT	
Orchestration View for output workflows Services Menu that eases Group and Cluser Configurarion while displaying running servicers per node Hardware acceleration *If Hardware is installed or available Intel QSV General Purpose IN/OUT	
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Hardware acceleration *If Hardware is installed or available Intel QSV General Purpose IN/OUT	
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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
REST Area         Amage interaction with REST full web services           Manage via web interaction with REST Area         Amage interaction and with the Grown           Logging - Add user interaction on the actions         Logging - Add user interaction on the actions           Logging - Add user interaction on the actions         Logging - Add user interactions           Marcactin Logging - Add user interactions         Logging - Add user interactions           Marcactin Logging - Add user interactions         Logging - Add user interactions           Marcactin Logging - Add user interactions         Logging - Add user interactions           Marcactin Logging - Add user interactions         Logging - Add user interactions           Unifications of the face accels port         Longging - Add user interactions           Conjugate devices with video preview         Dashbands interactions where users can extend their own personalized view           Dashbands interactions         Logging - Add user interactions           Conjugate web add interface actions         Logging - Add user interactions           Logging - Add user interface actions         Logging - Add user interface           Logging - Add user interface actions         Logging - Add user interface           Logging - Add user interface actions         Logging - Add user interface           Logging - Add user interface         Logging - Add user interaccin           Logging - Add	GPO triggers supported
Notify user upon connection of with the Sarver           Configuration and the sarver information on flow actions           Legging - Structured Logging           Receive SMIP notifications is information on flow actions           Deping - Structured Logging           Receive SMIP notifications is information on flow actions           Deping - Structured Logging           Receive SMIP notifications is information on flow actions           Deping - Structured Logging           Receive SMIP notifications is information on flow actions           Deping - Structured Logging           Receive SMIP notifications is information on flow actions           Deping - Structured Logging           Receive SMIP notifications is information on flow actions           Deping - Structured Logging           Receive SMIP notifications is information on flow actions           Configuration actions is information on flow actions           Configuration actions is information on the support           Configuration actions is information on the support           Configuration actions is information on the support           Depine Instance Support           Configuration actions is information on the support           Depine Instance Support           LogA visuant actions information           Receive Support           LogA visuant actions information	Additional Highlights
Manage via web interface on CEST APIE for integration with automation system           Lagging - Addituze information on their actions           Lagging - Addituze information on their actions           Decomposition of the preview stream           System in stream of the preview stream           Manage TL Gap (Firster V Stream of the preview stream           Manage TL Gap (Firster V Stream of the preview stream           Configurable web interface acces port           Embeddate basinsso stream of the preview stream           Define the the Stream of the preview stream           Define the the stream of the decomposition of the preview stream           Define the stream of the decomposition of the preview stream           Define the stream of the decomposition of the preview stream           Define the stream of the decomposition of the preview stream           Define the stream of the decomposition of the preview stream           Define the stream of the decomposition of the preview stream           Define the stream of the decomposition of the preview stream           Define the stream of the stream	REST API - allows interaction with RESTful web services
Configurale guality and target latency of the preview stream Logging - Adl user information on for your own actions Logging - Adl user information on for your own actions Support - Adl user fragmenter Microsoft Edge / Firefox / Safa in a Chrone Support Microsoft Edge / Firefox / Safa in a Chrone Support Configurate web interface access port Embeddate Destinate Add access Embeddate Destinate Add access Embeddate Destinate Add access Embeddate Destinate Add access Embeddate Destinate Embeddate E	Notify user upon connection lost with the Server
Loging:         Add user information on flow actions           Receive SMIP notifications via e-mail           Receive SMIP notifications via e-mail           Support an externed Database           Microsoft Edge / Fixefox / Safari and Chrome Support           Configurable with infaction access port           Configurable with infaction access port           Configurable with infaction access port           Embeddate Databaseria/Midgets           Web-Based Infaction withore users can create their own personalized view           Databaseria personalized with video users           Configurable with infaction access port           Create your own custom diababased templates           Import and Export Users Databaseria           Associate a single databaseria           Lober survalisment cuttom           User port mismagement           Lober survalisment cuttom           Video personalisment cutt	Manage via web interface or REST APIs for integration with automation system
Lagping - Structured Lagping   Receiver SMT hourisations via email of abuse Microsoft Edgin / Fields / Saler and Ortermo Support   Microsoft Edgin / Fields / Saler and Ortermo Support   Configuratie web interface laces sport   Emodebable Databords/Midget S Web-Based Interface with video preview   Databords/Bused Supperface View users can create their own personalized view   Databords/Bused Supperface View users can create their own personalized view   Databords/Bused Supperface View   Saler Create your own costs on databord Heir Supper   Configuratie web interface databords // Saler Create your own costs on databord Heir Supper   Configuraties with views can create their own personalized view   Databords/Bused Supperface Views   Saler Create your own costs on databord Heir Supper   Configuraties with views   Saler Create your own costs on databord Heir Supper   Lower authentication   Lower databords permets   Lower databords   Lo	Configurable quality and target latency of the preview stream
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
Microsci Edge / Friefox / Safari and Chrome Support           Unified Interface Access port           Configurative web Interface access port           Embeddable Bashboards/Widgets           Work- Bask onterfaces with video proview           Dashboards presentione where users can create their own personalized view           Dashboards presentione where users can create their own personalized view           Dashboards presentione where users can create their own personalized view           Dashboards presentione where users can create their own personalized view           Dashboards presentione where users can create their own personalized view           Dashboards presentione where users can create their own personalized view           Dashboards presentione where users can create their own personalized view           Dashboards presentione where users can create their own personalized view           Dashboards presentione where users can create their own personalized view           Dashboards presentione where users can create their own personalized view           Dashboards presentione dustion           More consultari Interface           Lock/(Indx Widgets permission           Touch servers model           Multi Language Support           User tour           Showlided payer ownlays           Nontricin davkared metricis           Multi Language Support           Define the	Receive SMTP notifications via e-mail
brite for a cus of the sec	Support an external Database
brite for a cus of the sec	Microsoft Edge / Firefox / Safari and Chrome Support
Embandanci         Final Action           Web-Based Interface with video preview         Construction           Dashboards based operience where users can create their own personalized view         Construction           Create your own custom dashboards templates         Construction           Create your own custom dashboards templates         Construction           Associate a single dashboard templates         Construction           LDAP user authentication         Construction           User previsions control         Construction           Weide based modular interface         Construction           Colcourt on the dashboard templates         Construction           Matti Language Support         Construction           User tour         Showhide player overlays           Notifications of required actions needed to resume a workflow         Construction           Matti Language Support         Construction           User tour         Showhide player overlays           Notifications of required actions needed to resume a workflow         Construction           Matti Canguage Support         Constructin the use tour song a dashb	Unified Interface User Experience
Web-Based interface with video preview           Dashboards based experience where users can use deployment           Create your own custom dishboard templates.           Import and Export Users? Dashboards           Associate a single dashboard templates.           User profile management.           User profile management.           User profile management.           Lock/Unick widgets permission           Choose between multiple interface themes (Midnight, Carbon, Dark or 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 tor           Show/Hido giver overlays           Nonficiations of required actions needed to resume a workflow           Nonficiations of required actions needed to resume a workflow           Nonficiations of severet activity Midget           Rehove the "guick edit" button from the Job Control Widget           Monitor Groupe Severet activity Midget           Befine the quility and target latency of the preview stream           Ability to control to up to 4 players in a single dashboard           Multi Language Support           Export lata activity           Before the quility and target latency of the preview stream	Configurable web interface access port
Dashboards based expenses for user of use deployment         Create your cover ustant dashboard templates           Import and Export User's Dashboards         Sascitate a single dashboard templates           Loba user authinication untiple users         Loba user authinication to multiple users           Loba user authinication control         Loba user authinication control           User profile management         Lusers permissions control           Users permissions control         Widgets permission           Choose between multiple interface themes (Midnight, Carbon, Dark or High contrast theme)         Touch screen mode           Montoring - Advanced metrics         Multi Language Support         Luser permissions control           Vides to provide stream and the dashboard templates         Multi Language Support         Luser tour           Stowhidso player overlaps         Multi Language Support         Luser tour           Multi Language Support         Luser tour         Luser tour           Stowhidso player overlaps         Multi Language Support         Luser tour           Multi Language Support         Luser tour         Luser tour           Stowhidso frequied actors needed to resume a workflow         Multi Language Langued Support         Luser tour           Multi Language Support         Luser tour         Luser tour         Luser tour           Parking as acheckulate tas to	Embeddable Dashboards/Widgets
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Users permissions control           Widget spaced modular interface           Chock/Uhlock widgets permission           Chock/Uhlock widgets permission           Tauch screen multiple interface themes (Midnight, Carbon, Dark or High contrast theme)           Tauch screen mode           Monitoring - Advanced metrics           Multi Language Support           User tour           Show/Hide player overlays           Notifications of required actions needed to resume a workflow           Monitor Grouped Servers' activity in a Group Activity Widget           Remove the "quick edit' button from the Job Control Widget           Multi Language Support           Define the quality and target latency of the preview stream           Ability to control to up to 4 players in a single dashboard           Multi to control to up to 4 players in a single dashboard           Maintenance           Export database (backup) as a scheduled task           Export logs as a scheduled task           Export all activity           Export all activity from a date range           Clear all activity           Export all schup or full backup vill create an archive of all the files and configurations           Import full backup           Partore           Export dashboards from one user or all users           Import dashboards	LDAP user authentication
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Multi Language Support           User tour           Show/Hide player overays           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           Multi Viewer           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 alter attivity           Export database (backup) as a scheduled task           Export database (backup) as a scheduled task           Export database (backup) as a scheduled task           Export dast activity           Export dast backup is the activity           Export dast backup is the activity           Backup      <	Touch screen mode
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Monitor Grouped Servers' activity in a Group Activity Widget           Remove the "quick edit" button from the Job Control Widget           Multiviewer           Define the quality and target latency of the preview stream           Ability to control to up to 4 players in a single dashboard           Mainteance           Scheduler           Rebot host or group           Export database (backup) as a scheduled task           Export last activity           Insport full backup - A full backup will create an archive of all the files and configurations           Import dashboards from one user or all users           Export dashboards from one user or all users           Import dashboards from one user or all users           Import dashboards from one user or all users           Clean assets, flows and notifications           Import dashboards from one user or	Show/Hide player overlays
kemove the "quick edit" button from the Job Control Widget  Multiveer  Perfore the quality and target latency of the preview stream Ability to control to up to 4 players in a single dashboard  Multiveer  Scheduler  Scheduler  Rebot host or group  Rebot host or group  Activity  Export dastabase (backup) as a scheduled task  Activity  Export lass a scheduled task  Activity  Clear all activity  Clear all activity  Clear all activity  Scheduler  Root full backup - A full backup will create an archive of all the files and configurations  Import full backup  Export dastboards from one user or all users  Import fastboards from one user or all users  Clean atsa usage  Clean atsa usage  Clean assets, flows and notifications  Farse all data and reset the system	Notifications of required actions needed to resume a workflow
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         Rebot host or group         Export database (backup) as a scheduled task         Export lass as scheduled task         Export lass as scheduled task         Export last activity         Export last activity         Export aditivity form a date range         Clear all activity         Isport full backup - A full backup will create an archive of all the files and configurations         Import full backup         Import full backup are or all users         Import dashboards from one user or all users         Import dashboards from one user or all users         Clean assets, flows and notifications         Perform a Factory Data Reset         Perform a Factory Data Reset         Export dashboards	Monitor Grouped Servers' activity in a Group Activity Widget
Define the quality and target latency of the preview stream           Ability to control to up to 4 players in a single dashboard           Mainteance           Scheduler           Reboot host or group           Export database (backup) as a scheduled task           Export logs as a scheduled task           Ability           Export lat activity           Export lata activity           Export lata activity           Export lata compo           Export lata compo           Export lata compo           Export lata compo           Export lataboards      <	Remove the "quick edit" button from the Job Control Widget
Ability to control to up to 4 players in a single dashboard         Maintenance         Scheduler         Reboot host or group         Export dastabase (backup) as a scheduled task         Export dastabase (backup) as a scheduled task         Activity         Export last activity         Export attabase (backup) as a scheduled task         Export last activity         Export last activity         Export attabase (backup)         Export attabase (backup)         Export last activity         Export last activity         Export attabase (backup)         Export attabase (backup)         Export attabase (backup)         Export last activity         Export attabase (backup)         Export attabase (backup)         Export attabase (backup)         Export full backup will create an archive of all the files and configurations         Export full backup         Pashbaords         Pashbaords         Import dashboards from one user or all users         Import dashboards         Dashbaords         Clean assets, flows and notifications         Clean assets, flows and notifications         Perform a Factory Data Reset         Erase all data and reset the system    <	Multiviewer
Maintenance         Scheduler         Reboot host or group         Export database (backup) as a scheduled task         Export database (backup) as a scheduled task         Export logs as a scheduled task         Activity         Export all activity         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         Clean ata usage         Clean assets, flows and notifications         Perform a Factory Data Reset         Erase all data and reset the system	Define the quality and target latency of the preview stream
Scheduler         Reboot host or group         Export database (backup) as a scheduled task         Export logs as a scheduled task         Activity         Activity         Export all activity         Export all activity         Clear all activity         Clear all activity         Export logs         Backup         Export full backup - A full backup will create an archive of all the files and configurations         Import full backup - A full backup will create an archive of all the files and configurations         Import full backup on user or all users         Import databacards from one user or all users         Dashboards         Clean assets, flows and notifications         Clean assets, flows and notifications         Perform a Factory Data Reset         Erase all data and reset the system	Ability to control to up to 4 players in a single dashboard
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Perform a Factory Data Reset Erase all data and reset the system	-
Erase all data and reset the system	
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Force clear cache	· ·
	Force clear cache



# **Technical Specifications**

## **Supported Live Inputs**

mL	IV

	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	<b>Continuous Operation</b>	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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