

## mPLAY Solid io



### Overview

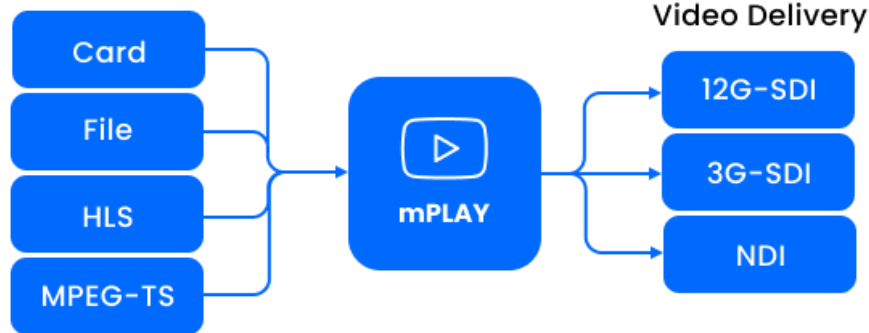
mPLAY Solid io is an outstanding SDI monitoring and playout appliance that simultaneously supports playing all kinds of media files in 4K, UHD, FHD, and NDI.

It provides you with an agnostic real-time playback system to ensure a straightforward quality control process and allows the user to playback and reviews a wide range of file-based content with broadcast quality across all platforms and channels.

mPLAY Solid io supports simultaneous media operations that can be a combination of playout, file preview, live switching, and even intercom between different users.

Additionally, it has an option for 8TB of storage.

#### Video Sources



### Highlights

- **File playback - multiple simultaneous operations:** composition play, loop playback, instant play, schedule play, remote preview
- **Playlist management:** add clips, remove clips, reorder clips, export playlist, loop play
- Full featured local and remote user interface (includes quick control through touch screen)
- **Operation modes:** manual, scheduled, and automatic
- **Overlays:** clip-name and port-name
- Local and remote preview of the playing video
- **mSWITCH** - Remote live switching and composing
- **mTALK** - Audio communication between users

### Specially Designed For

- Educational/Government
- Live Entertainment/Worship
- Corporate
- Sports
- Film/TV Studio/Scripted
- Post-Production
- Broadcast/Digital News
- System Integrators/Rentals

## Features

Features
<b>Multiple LIVE and simultaneous records</b>
Stream with Closed Captions
Deck control through Serial Ports
<b>Operation modes</b>
Automatic
Manual
Scheduled
<b>Find immediately and learn everything about any asset</b>
Show or hide proxies on Asset Browser
Sort, order and search for files on Asset Browser
Asset Explorer - Resizable thumbnails
Asset Explorer - Support asset availability
Search for all assets on Asset Explorer
Extract thumbnails and posters while indexing on Asset Explorer
Asset Explorer - Playable thumbnails
Preview media with interactive Pop-up Players
Asset Explorer - View the exact duration of files with more than 24 hours
Asset Selection -View the total duration of the selected assets
Configure the asset's preview duration
Asset Selection - Add Numeric Input
<b>Audio support</b>
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
Playout audio only streams
MPEG-4 Audio (M4A) audio format as output
Ability to mute proxy on the output
<b>Close captions</b>
CEA/EIA - 608
<b>Locators</b>
Create locators with shortcut keys
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
Send locators instantly to Playout
Preserve Metadata Enhancement locators created by an Automatic Job
<b>Scheduler (Calendar View)</b>
Schedule a Playout operation
Edit individual events
Allow editing of settings for each occurrence/repetition
Set the number of an event's repetitions
Placeholder when editing an occurrence name
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
Visualize scheduled events in a List View
Export activity events
<b>Scheduler (Playout Grid View) - Unifies in a single rollout view all Playout activities *Optional</b>
Grid View for Playout
Crash Playout directly from the Grid View
Loop a playlist
Schedule Clip Lists to be Played out

## Features

- Adjust to a desired Time Zone
- Ability to set a pre-determined number of repetitions
- Trigger Playout events (Any day, On Working Days or only on Weekends)
- 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
  - 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
  - Create new playlists with the current assets selection
  - 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
  - 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
- 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

## Features

- 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

### 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

### Orchestration

- Orchestration View for output workflows
- Services Menu that eases Group and Cluster Configuration while displaying running services per node

### 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
- 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 - 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

## Features

User profile management
Users permissions control
Widget based modular interface
Lock/Unlock widgets permission
Choose between multiple interface themes (Midnight, Carbon, Dark or High contrast theme)
Touch screen mode
Monitoring - Advanced metrics
Multi Language Support
User tour
Show/Hide player overlays
Notifications of required actions needed to resume a workflow
<b>Multiviewer</b>
Define the quality and target latency of the preview stream
Ability to control to up to 4 players in a single dashboard
<b>Maintenance</b>
<b>Scheduler</b>
Reboot host or group
Export database (backup) as a scheduled task
Export logs as a scheduled task
<b>Activity</b>
Export last activity
Export all activity
Export activity from a date range
Clear all activity
<b>Logs</b>
Export logs
<b>Backup</b>
Export full backup - A full backup will create an archive of all the files and configurations
Import full backup
<b>Dashboards</b>
Export dashboards from one user or all users
Import dashboards
<b>Data</b>
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

OnPrem	<b>Plain Files or Structures</b>
	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
	Generic File Shares
	GoPro Cards
	IKEGAMI GFPAK
	JVC (AVC HD models)
	NextoDI NSB-25
	Panasonic CX350 HEVC
	Panasonic AU-EVA1 and GH5 Cameras
	<b>Panasonic P2</b>
	AJ-PCD 2 / AJ-PCD 20/30/35 / AJ-MPD1
	AU-XPD1E / AU-XPD3EJ
	<b>Multi Clip/Spanned XDCAM/XAVC/XDCAM-EX Structure</b>

## Inputs

OnPrem	<b>XDCAM EX</b>
	Sony SxS (SBAC-UT100, SBAC-US10/20/30)
	Sony XQD (MRW E-80, MRW E-90)
	<b>XDCAM HD</b>
	Sony XDCAM HD: Disc (PDW-U1, PDW-U2, PDW-U4)
	XAVC Structures
	DJI (Camera Drones)
	HLS Structures
	MPEG-TS Structures
	MOG Package
	<b>Network</b>
	XDCAM Network
	P2 Network
	ARRI RAW Network
	Ikegami Network
	<b>Storage</b>
	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 & ZX NAS Storage
	EMC Isilon
	QNAP
	Studio Network Solutions EVO
	Oracle Storage
	Netapp
Cloud	<b>Social Media</b>
	Facebook
	X (Twitter)
	Vimeo
	YouTube
	<b>Professional Cloud Storages</b>
	Adobe Creative Cloud
	Amazon S3 Glacier
	Microsoft Azure Storage
	Tencent
	Lucidlink Cloud NAS
	Google Cloud Storage
	IBM Cloud Object Storage
	Generic S3 storages
	<b>Consumer Cloud Storages</b>
	Apple I Cloud Drive
	Dropbox
	Google Drive
	Microsoft One Drive

## Supported Live Inputs

## Inputs

Live	<b>Streams</b>
	HLS
	MPEG-TS

Supported Live Outputs

Outputs	
Live	SD/HD/FHD-SDI
	SD-SDI (SMPTE 259M)
	3G-SDI (SMPTE 292M, SMPTE296M, SMPTE372M, SMPTE425M)
	12G-SDI UHD-SDI (SMPTE ST-2081/SMPTE ST-2082)
	12G-SDI (Quad-Link 3G-SDI)
	Support for 8, 10 and 12 bits
	Streams
	NewTek NDI

Formats

Input Formats

Input Video Formats
ARRI ARRIRAW
Blackmagic RAW
Digital Cinema Packages (DCP)
Digital Picture Exchange (DPX)
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 Intra 300 / 300 VBR / 480 / 480 VBR Mbps
XAVC LGOP 25 / 35 / 50 Mbps
XAVC LGOP 60 / 100 / 140 / 150 / 200 Mbps
DVCPRO 25/50 Mbps / DVCPRO HD 100 Mbps
AVC-Intra 50/100 Mbps
AVC-Intra 200 Mbps
AVC-Intra 2K422
AVC-Intra 4K422
AVC Ultra (LGOP 6/12/25/50 Mbps)
DNxHD (SQ/HQ/HQX/LB)
DNxHR (SQ/HQ/HQX/LB)
H.264 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
MPEG-5 EVC Baseline Profile

Input Video Formats
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)
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)

Product Integrations

Storage	Professional Cloud Storages	Cameras	Social Media
AVID ISIS Storage	Adobe Creative Cloud	Canon (DSLR5D, DSLR 7D)	Facebook
AVID Nexis Storage	Amazon EC2	Canon (DSLR C300, DSLR C100)	Twitch
Avid Unity™ MediaNetwork	Amazon S3	ARRI Alexa XT (ARRIRAW)	X (Twitter)
Dynamic Drive Pool SAN Storage	Amazon S3 Glacier	Panasonic AU-EVA1	YouTube
Facilis Terrablock	Microsoft Azure Storage	Panasonic GH5 Cameras	Vimeo
Harmonic MediaGrid	Microsoft Azure Virtual Machines	Panasonic CX350 HEVC	Peripheral Devices
Quantum: StoraNext	Tencent: Cloud Storage	Ikegami Gfpack	Countour Shuttle Pro V2
Scalelogic: NX2 & ZX NAS Storage	Lucidlink Cloud NAS	JVC AVC HD camera models	Elgato Stream Deck
Editshare EFS	Google Cloud Storage	LUMIX DC-S1H	Stream
EMC: Isilon	IBM Cloud Object Storage	RED Digital Cinema	Newtek NDI
QNAP	Generic S3	GOPRO	Haivision SRT
Studio Network Solutions: EVO	Hypervisors		
Oracle Storage	Microsoft HyperV		
Netapp	VMWare ESX		



Server Options

Features			Specs
System	Platform		Dell XR12
	GPU		1x Nvidia A2
	Video IO		1x DeckLink 8K Pro
	Storage Drive		8TB SSD**
	Operating System Drive		480GB RAID 1
	Operating System		Windows 10 Enterprise (LTSC)
Connectivity	Networking	1Gb Ethernet Port	2
		10Gb Ethernet Port SFP+	4
	Video	VGA Out	1
		2.0	1
	USB	3.0	1
	Serial		1
	BNC 12G Out		4
Extended Connectivity	Ref. In		1
	Power Requirements		Dual 1400W
	Peripheral Module**	LTC Input	1
		Audio Out	1
		Breakout Connector	1
	Breakout Cable**	RS422	4
		GPO branch with 4 outputs	1
		GPI branch with 4 inputs	1
Other	Dimensions & Weight		2RU, 463x482x86.8mm (D, W, H), ~20.5 kg
	Delivery Packaging		470x487x92mm (D, W, H), ~25Kg
	Temperature	Storage**	-40°C to 65°C (-40°F to 149°F)
		Continuous Operation	10°C to 35°C (50°F to 95°F)
	What is Included	Power Cable	2x C13 to C14
		Other	Static rails for 2/4-post racks

\*\* Not included by default

Concurrent Media Operations

With mPLAY Solid io, it is possible to run different media operations simultaneously, thus guaranteeing a universe of distinct arrangements to meet the challenging media day-to-day activities.

Media operations include playback, file preview, live channel switching, and intercom.

mPLAY 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			
Playback	File Preview	Live Switch	Intercom
Up to 4 playback files	Up to 5 files preview	Up to 1 operation	Up to 1 operation

Product

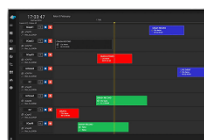
Part Number	Product	Description
mpsl.io	mPLAY Solid io	File payout appliance of up to 4 combined media operations

## Available Options

Choose from the products below to customize the mPLAY Solid 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	mPLAN	Scheduler & Router Control of up to 8 channels

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

### Hardware

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

Part Number	Product	Description
pcbx	Peripheral module	Optional MOG module to expand I/O available with 1x LTC, 1x audio output, 1x GPI, 1x GPO and 4x RS422

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

### Storage

Option for local storage.

Part Number	Description
mpslssd8t	8TB of SSD storage

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