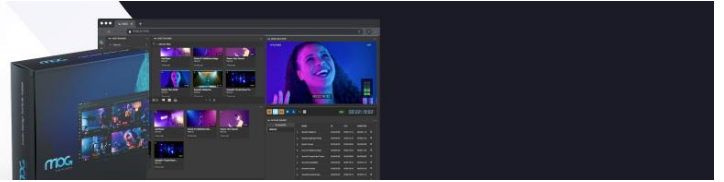


## 4PRO mediaPLAY



### Overview

Benefit from an outstanding monitoring and playout system. 4PRO mediaPLAY is a software micro-service that provides you an agnostic real-time playback system to ensure a straightforward quality control process and allows the user to playback and review a wide range of file-based content with broadcast quality in 4K, UHD, FHD, and NDI for an enterprise farm.



### Highlights

- File playback
  - Composition play
  - Loop playback
  - Instant play
  - Schedule play
  - Remote preview
- Operation modes: manual, scheduled and automatic
- Provides asset position, name, timecode in seconds and frames
- Local and remote preview of the playing video
- Playlist management
  - Add clips
  - Remove clips
  - Reorder clips
  - Loop play
  - Export playlist
- Not able to import playlist
- Metadata preservation and enhancement

### Specially Designed For

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

## Features

Features
<b>Serial Control Protocols</b>
VTR (VDCP) - Serial
<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
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
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

## Features

### Scheduler (Playout Grid View) - Unifies in a single rollout view all Playout activities \*Optional

- Grid View for Playout
- Crash Playout directly from the Grid View
- Loop a playlist
- Schedule Clip Lists to be Played out
- 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
- Simple Time Delay: Scheduling a Playback of a Single File in Growing Recording Mode
- Read Metadata Timecode Package (Auto / Material Package / Source Package)

### Playout

#### Playout Preparation

- Build playlists in a Playlist Builder widget
- Create multiple Playlists
- Allow configuring playout clip action while preparing the playlist
- Support visual separators for rPlayout playlists
- Drag and Drop clips to the player for media preparation
- Support insertion of Timecodes without separators ":" in the playlist builder
- Use both types of TC (Relative and Absolute) for Mark-ins and mark-out at playlist builder
- Trim clips to be included in the Playlist
- Editable timecodes of the in and out points
- Re-arrange clips order
- Duplicate Edit Decision Lists
- Export Edit Decision Lists

#### Playout Control

- Edit playlist on the fly and while playing
- Playlist countdown and clip countdown

## Features

- 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
- 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

### mTALK \*Optional

- 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

### 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

## Features

Microsoft Edge / Firefox / Safari and Chrome Support
<b>Unified Interface User Experience</b>
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
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

<b>OnPrem</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

**Inputs**

<b>OnPrem</b>	GoPro Cards
	IKEGAMI GFPAC
	JVC (AVC HD models)
	NextoDI NSB-25
	Panasonic CX350 HEVC, AU-EVA1. and GH5 Cameras
	<b>Panasonic P2:</b> AJ-PCD 2 / AJ-PCD 20/30/35 / AJ-MPD1 / AU-XPDI1E / AU-XPDI3EJ
	<b>Multi Clip/Spanned XDCAM/XAVC/XDCAM-EX Structure</b>
	<b>XDCAM EX</b>
	Sony SxS (SBAC-UT100, SBAC-US10/20/30)
	Sony XQD (MRW E-80, MRW E-90)
	<b>Sony XDCAM HD:</b> Disc (PDW-U1, PDW-U2)
	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>VTR Decks</b>
	<b>Panasonic P2</b>
	AG HPG 20
	<b>Sony XDCAM HD:</b> Sony XDCAM HD: Disc (PDW-U1, PDW-U2, PDW-U4)
	<b>Sony XDCAM Station:</b> XDS 1000
	<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	
<b>Cloud</b>	<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>
	Video Content Hyperlinks
	HLS
	MPEG-TS
	MPEG-DASH
	RTMP (with support for HEVC / VP9 / AV1)
	RTP
	RTSP
	NewTek NDI
	UDP
	Haivision SRT
	WebRTC
	Zixi
	<b>IP Live *If hardware is installed or available</b>
	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	
Live	<b>SD/HD/FHD-SDI</b>
	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
	<b>Streams</b>
	HLS
	HTTPS Push
	Microsoft Smooth Streaming
	MPEG-DASH
	Low Latency Dash - LL-Dash
	NewTek NDI
	MPEG-TS
	RTMP (with support for HEVC / VP9 / AV1)
	RTP
	RTSP
	UDP
	Haivision SRT

## 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

## Input Video Formats

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

## Minimum Requirements

Component	4PRO mediaPLAY
CPU	i9-12900 or above
	2x Intel Xeon Silver 4314 or above
	2x Intel Xeon Gold 6342 or above
RAM	4x 8GB
OS Drive	240GB SSD
Network	2x 1Gb Ethernet Port
Operating System	Windows server 2022 or above
Compatible SDI Board	DeckLink 8K Pro, DeckLink Quad 2, DeckLink Mini Monitor 4K, DeckLink 4K Extreme 12G, DeckLink Duo 2, DeckLink Mini Monitor, DeckLink SDI 4K, DeckLink Duo 2 Mini and DeckLink SDI Micro
Compatible Graphics Card	Nvidia RTX A4000 or similar

## Product

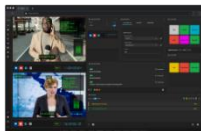
Model	Part Number	Product	Description
Yearly fee	4pmoac1y	4PRO mediaPLAY	Monitoring and playout
Monthly fee	4pmoac1m	4PRO mediaPLAY	Monitoring and playout

## Available Options

According to the concept of MAM4PRO's building blocks, you can choose from among the products below to work seamlessly with 4PRO mediaPLAY.

### Media Operations

Benefit from a powerful set of media operations designed to solve your most pressing workflow challenges.



#### 4PRO mTALK

A stand-alone software micro-service that allows communication between all users who are associated in the same instance without the need for integration with third-party tools.



#### 4PRO mSWITCH

A software micro-service that virtualizes the switcher and multi-camera control, giving your live and studio production the professional touch you need while being simple to use. With support for a wide range of camera inputs, the same platform covers all the stages of your production and distribution ecosystem without requiring dedicated hardware.

Model	Part Number	Product
Yearly fee	4pmoac1y	4PRO mTALK
		4PRO mSWITCH
Monthly fee	4pmoac1m	4PRO mTALK
		4PRO mSWITCH

### Production Tools

Tool for and workflow orchestration.



#### 4PRO mPLAN

Setup scheduled events not only from the standard scheduler but through a unique roll out view interface. 4PRO 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.

Model	Part Number	Product
Yearly fee	4pmnac1y	4PRO mPLAN
Monthly fee	4pmnac1m	4PRO mPLAN

Contact our sales team at [sales@mog-technologies.com](mailto:sales@mog-technologies.com) to find out how to purchase or in case you need more information.

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