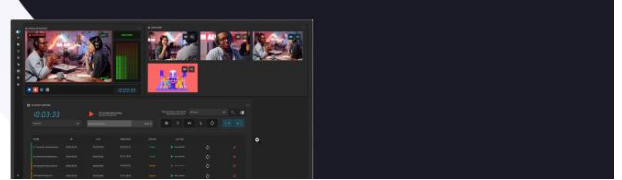


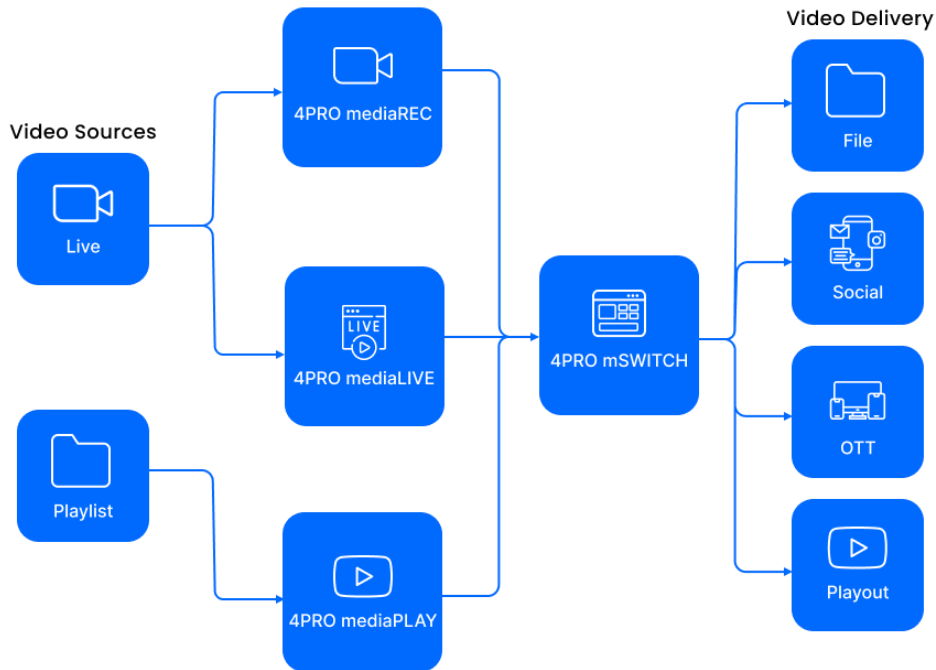
4PRO mSWITCH



Overview

One of the MAM4PRO's media operations, the 4PRO mSWITCH virtualizes the switcher and multi-camera control, giving your live and studio production the professional touch that you need while being simple to use. With support for a wide range of camera inputs, the same platform covers all stages of your production and distribution ecosystem without requiring dedicated hardware.

It can be used with 4PRO mediaREC, 4PRO mediaLIVE, and/or 4PRO mediaPLAY media operations, as these will provide the inputs and outputs for the switcher.



Highlights

- Control audio/video inputs individually
- Easily switch between live feeds and mix media
- Configure your playout list and sequence

Specially Designed For

- Educational/Government
- Live Entertainment/Worship
- Corporate
- Sports
- Film/TV Studio/Scripted
- Digital News
- Mobile Studios/OB Vans
- Digitalization
- Television/Broadcasting
- OTT & Streaming
- System Integrators/Rentals

Features

Features

Video Router Protocols

- Quartz
- Probel SW-P-08
- Jupiter ASCII
- Blackmagic Videohub Ethernet Protocol

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
- Playout audio only streams
- Ability to mute proxy on the output

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

Live switcher - Capture switcher producer

- Commute between channels while recording
- Record audio and video from one channel, or just audio or video
- Playout from SDI Inputs
- Playout from Streams Inputs
- Playout from File Inputs
- Overlay graphics support
- Chroma Key as Input

Input/output social media *Optional

- Google Chrome Social-m Plugin
- Social-m - Add support for live stream capture
- Metadata in Chrome Social-m Plugin
- Capture to Facebook Live
- Stream to Facebook Live
- Stream to Twitch Live
- Capture to YouTube Live

Features

File based YouTube Upload
Capture X (Twitter) Live
Stream to X (Twitter) Live
Upload to Vimeo
Metadata social annotation and enhancement
PAM - Production Asset Management *Optional
Advanced text search
Asset browser permissions
Asset collections
Asset essences
Asset essences for generic sources
Asset comments
Enable on-the-fly tagging
Flexible metadata management
Dynamic Automatic Jobs - Age value for CreationDate (Available for Copy, Move, Archive Workflows)
Display of Essences File Paths
Check-in via detector
Check-in via metadata update
Check-in via workflow
Interactive approval workflows
MOG player proxy
Optional Proxy creation
Manual Proxy creation
Move option in asset collections
Collections as input in automatic jobs
Private and shared asset collections
Show the creator of the collection
Statistics for collections
Save searches and filters
Rich logging workflows
User abstraction for in/out assets
Instant play, anytime and anywhere of any asset (with or without proxy)
Disk-to-Disk Storage Manager (Archive and Restore)
mTALK *Optional
Communicate via audio between two or more users
QR code implementation
WebApp (requires Android smartphone)
Toggle Mode
Orchestration
Orchestration View for output workflows
Services Menu that eases Group and Cluster Configuration while displaying running services per node
Additional Highlights
Microsoft Edge / Firefox / Safari and Chrome Support
Unified Interface User Experience
Configurable web interface access port
Embeddable Dashboards/Widgets

Technical Specifications

Supported File Inputs

Inputs

OnPrem	Storage
	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

Inputs

OnPrem	EMC Isilon
	QNAP
	Studio Network Solutions EVO
	Oracle Storage
	Netapp
Cloud	Social Media
	Facebook
	X (Twitter)
	Vimeo
	YouTube

Supported File Outputs

Outputs

OnPrem	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
	FTP Servers (List on request)
Generic File Shares	
Cloud	Removable Disks
	HDD 2.5"
	SSD 2.5"
	Consumer Cloud Storages
	Apple I Cloud Drive
	Dropbox
	Google Drive
	Microsoft One Drive
	Multiple and Adaptive bitrates for the OTT *Optional
	Professional Cloud Storages
	Adobe Creative Cloud
	Amazon S3 Glacier
	Microsoft Azure Storage
	Tencent
	Lucidlink Cloud NAS
Google Cloud Storage	
IBM Cloud Object Storage	
Generic S3 storages	
Social Media *Optional	
Facebook	
X (Twitter)	
Vimeo	
YouTube	

Supported Live Inputs

Inputs

Live	SD/HD/FHD-SDI
	SD-SDI (SMPTE 259M)
	3G-SDI (SMPTE 292M, SMPTE296M, SMPTE372M, SMPTE425M)
	12G-SDI (SMPTE ST-2081/SMPTE ST-2082, SMPTE/2108-1)
	12G-SDI (Quad-Link 3G-SDI)
	Support for 8, 10 and 12 bits

Inputs

Live	Streams
	Video Content Hyperlinks
	HLS
	MPEG-TS
	MPEG-DASH
	RTMP (with support for HEVC / VP9 / AV1)
	RTP
	RTSP
	NewTek NDI
	UDP
	Haivision SRT
	WebRTC
	Zixi
	Audio
	Dante Audio *Negotiated separately
	Social Media
	Facebook
	Twitch
	X (Twitter)
	YouTube
IP Live *If hardware is installed or available	
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	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)
	Support for 8, 10 and 12 bits
	Streams
	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
	WebRTC
	Social Media *Optional
Facebook	
Twitch	
X (Twitter)	
YouTube	
Vimeo	
Multiple and Adaptive bitrates for the OTT *Optional	
IP Live *If hardware is installed or available	
ST2022-7	
ST2110-10, ST2110-20, ST2110-21, ST2110-30, ST2110-31	
ST2110-40	

Formats

Input Formats

Input Video Formats

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 4320P 80 - 150 Mbps High Profile
H.264 4320P 150 - 280 Mbps High Profile
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 8K 25 Mbps LGOP
H.265/HEVC 8K 50 Mbps LGOP
H.265/HEVC 8K 100 Mbps LGOP
H.265/HEVC 4:2:2 LGOP
H.265/HEVC 4K 4:2:2 LGOP
H.265/HEVC 8K 4:2:2 LGOP
NDI HX H.264 - High Profile
NDI HX H.265 - High Profile
ProRes 422 (SQ/HQ/LT)
ProRes 4444
ProRes 4444XQ
JPEG 2000 (Full HD)
JPEG 2000 (4K)
JPEG 2000 (8K)
Google® VP6 / VP7 / VP8 / VP9 (Full HD)

Output Formats

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 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 4320p 150 - 280 Mbps High Profile
H.264 4320p 80 - 150 Mbps High Profile
H.264 2160p 35 - 68 Mbps High Profile
H.264 1440p 16 - 24 Mbps High Profile
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 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 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 L10 10 Mbps
H.265/HEVC LGOP 4:2:2
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 8K 25 Mbps LGOP
H.265/HEVC 8K 50 Mbps LGOP
H.265/HEVC 8K 100 Mbps LGOP
MPEG VVC/H266 Main Profile
ProRes 422 (SQ/HQ/LT)
ProRes 4444

Output Video Formats

ProRes 4444XQ
 JPEG 2000 (Full HD)
 JPEG 2000 (4K)
 JPEG 2000 (8K)
 Google® VP6 / VP7 / VP8
 Google® VP9 (Full HD)
 Google® VP9 (4K)
 Google® VP9 (8K)
 Uncompressed UYVY 422 / V210 / RGBA
 AOMedia Video 1 (Full HD)
 AOMedia Video 1 (4K)
 AOMedia Video 1 (8K)
 IMF (JPEG 2000 @ Full HD)
 IMF (JPEG 2000 @ 4K)
 IMF (JPEG 2000 @ 8K)

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)
 H.265/HEVC 10 Mbps LGOP
 H.265/HEVC 25 Mbps LGOP
 H.265/HEVC 50 Mbps LGOP
 H.265/HEVC 100 Mbps LGOP
 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 Interplay Web (SD, 800 Kbps, and 2 Mbps)
 Sony Proxy AV (MPEG-4 Part-2) @1.5 Mbps

* Optional output

OTT Formats *

Output OTT Formats

H.264 2160p 35 - 68 Mbps High Profile
 H.264 1440p 16 - 24 Mbps High Profile
 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 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)

Output OTT Formats

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
Google® VP9 (Full HD)
Google® VP9 (4K)

* Optional output

Product Integrations

Storage	CDN's	Editing Sytems
AVID ISIS Storage	Lumen	Adobe Premiere Pro
AVID Nexis Storage	Fastly	AVID Media Composer
Avid Unity™ MediaNetwork	Akamai Technologies	AVID Media Central UX and Cloud UX
Dynamic Drive Pool SAN Storage	Microsoft Azure	Apple Final Cut Pro X
Facilis Terrablock	Cloudflare	Edius: Pro 8, Workgroup 9
Harmonic MediaGrid	Limelight Networks	BlackMagic: DaVinci Resolve Studio
Quantum: Storenext	Amazon CloudFront	Autodesk: Flame
Scalelogic: NX2 & ZX NAS Storage	BootstrapCDN	MAM / PAM / DAM
Editshare EFS	StackPath	CatDV MAM, PAM, DAM
EMC: Isilon	KeyCDN	eMAM Media Asset Management
QNAP	Rackspace	Telestream: Masstech
Studio Network Solutions: EVO	Alibaba Cloud Content Delivery Service	AVID Interplay
Oracle Storage	CacheFly	AXLE MAM
Netapp	Verizon	Editshare Flow
Professional Cloud Storages	Consumer Cloud Storages	MOG Vizzi
Adobe Creative Cloud	Dropbox	Medialoopster MAM
Amazon EC2	Google Drive	Peripheral Devices
Amazon S3	Microsoft One Drive	Countour Shuttle Pro V2
Amazon S3 Glacier	Apple Cloud Drive	Elgato Stream Deck
Microsoft Azure Storage	Social Media	Stream
Microsoft Azure Virtual Machines	Facebook	Newtek NDI
Tencent: Cloud Storage	Twitch	Haivision SRT
Lucidlink Cloud NAS	X (Twitter)	Zixi
Google Cloud Storage	YouTube	VTR Decks
IBM Cloud Object Storage	Vimeo	XDCAM HD: Disc (PDW 1500, PDW HD1500, PDW F70)
Generic S3	Audio	XDCAM Station (XDS1000)
	Dante *Negotiated separately	

Product

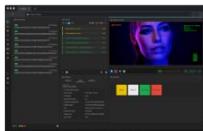
Model	Part Number	Product	Description
Yearly fee	4pmoac1y	4PRO mSWITCH	Live channel switcher
Monthly fee	4pmoac1m	4PRO mSWITCH	Live channel switcher

Available Options

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

Media Operations

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



4PRO mediaREC

Powerful and flexible multi-format SDI/IP recording system. 4PRO mediaREC is a video recorder micro-service software with full support for recording 4K UHD and HDR live video channels in different file formats for an enterprise farm.



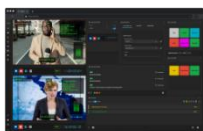
4PRO mediaPLAY

Benefit from Outstanding IP/SDI monitoring and playout. 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.



4PRO mediaLIVE

Manage all your live video streams in an integrated media production ecosystem. 4PRO mediaLIVE is a powerful and flexible encode and decode software micro-service to manage multiple 4K, UHD, FHD, and NDI channels for an enterprise farm.



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.

Model	Part Number	Product
Yearly fee	4pmoac1y	4PRO mediaREC
		4PRO mediaPLAY
		4PRO mediaLIVE
		4PRO mTALK
Monthly fee	4pmoac1m	4PRO mediaREC
		4PRO mediaPLAY
		4PRO mediaLIVE
		4PRO mTALK

Production Tools

Tools for asset management and workflow orchestration.



4PRO mPAM

Benefit from a state-of-the-art content and production asset manager tool with 4PRO mPAM. Streamline daily operations and empower your creative teams with the right tools to find, manage, track, enhance and deliver media files throughout the entire production ecosystem from a single interface.



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	4pmpac1y	4PRO mPAM
	4pmnac1y	4PRO mPLAN
Monthly fee	4pmpac1m	4PRO mPAM
	4pmnac1m	4PRO mPLAN

Add-ons

Output options to complement your workflows.

Model	Part Number	Product	Description
Yearly fee	4pooac1y	Proxy generation	Simultaneous proxy creation
		OTT live ingest	Multiple output resolutions for OTT
		Social media sharing	Simultaneous social media shares
Monthly fee	4pooac1m	Proxy generation	Simultaneous proxy creation
		OTT live ingest	Multiple output resolutions for OTT
		Social media sharing	Simultaneous social media shares

Plugins

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



Social-m

Quickly fetch and publish your live or VoD contents to social media.

This social media plugin for Chrome will let users ingest media without having to access the MAM4PRO GUI, allowing the content to be ready for editing or any other task, in no time. Simply open the plugin, insert the URL and run the workflow to fetch your video, with option to preserve metadata.



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.

Model	Part Number	Product
Yearly fee	4ppiac1y	Social-m
		Screen-m
Monthly fee	4ppiac1m	Social-m
		Screen-m

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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