



# mREC Kit



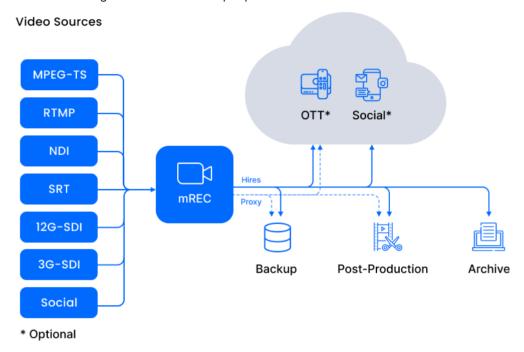
# **Overview**

mREC is a powerful and flexible multi-format SDI recording system.

Optimize media creativity for enterprise, digital media, sports, and broadcast markets with a streamlined file-based capture system, with full support for recording 4K UHD and HDR live video channels in different file formats.

It supports simultaneous media operations that can be a combination of recording and previewing files.

The kit includes a 12G-SDI video signal card and a MOG peripheral box.



# **Highlights**

- mSWITCH Remote live switching and composing
- mTALK Audio communication between users
- Baseband ingest multiple simultaneous recordings: multicamera recording, loop recording, crash recording, schedule recording, batch recording
- Video server for multiple destinations of any storage, NAS, or SAN
- Burnt-in options: text, timecode, overlays (images and videos), and LUT
- Full featured remote and local user interface
- Multi-configuration metadata management
- Flexible file naming engine
- Enable edit while ingest
- Proxy generation
- Artificial engine

# **Specially Designed For**

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

- Digitalization
- Post-Production
- Broadcast/Digital News
- System Integrators/Rentals



# **mRFC**

#### **Features**

Timecode support

LTC (SMPTE 12M) VITC (SMPTE RP188)

Time of Day

From VTR (BVW) - Serial

Multiple LIVE and simultaneous records

Crash Record operations

Gang Capture operations

Independent workflow selection in Gang Captures

Unique workflow for gang captures while using clipnaming with counters

Hide unused Capture Instances

Synchronized gang captures

Ability to choose which channels are present in the gang

Frame Chase editing

Unlimited capture duration support

Loop record support

Extend playlist maximum duration in Loop Record workflows

Perform Loop record captures trough automatic jobs

Growing files support

Growing file support for Grass valley Edius Workgroup v.9 and  $\boldsymbol{X}$ 

Growing XDCAM MXF OP1a file support on Avid Media Composer \*required Nablet AMA Plugin

Features

Automatic Stream Control - Detect input streams and start recording automatically

Continuous recording support

Recording timer for captures

Abort or force stop a capture or a stream

Frame rate conversion option on Capture workflows

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)

Generation of MP4 files as fragmented MP4 with DCP packager

Generate XML sidecars with WAV file as output while recording

Perform "Run after completion" scripts

Live Probing option

Stream Closed Captions

Edit a Workflow directly from the Player

Option to start timecode recording from 00:00:00:00

Export MOG playlist (.XML Sidecar containing information about the chunks of the recorded media)

Batch record support

Deck control through Serial Ports

Pre-roll and post-roll options

LiveU NewsML batch capture

LiveU NewsML metadata import

LiveU NewsML - support XML from devices (Live U, Android and iPhone)

LiveU include subfolder browse

Contribution Web Video Player - Aspect marker, Safe Area Marker, and Center marker

Player Overlay - Center Dot and Cross

**Operation modes** 

Automatic

Manual

Scheduled

Clipnaming

Clipnaming based under metadata profiles

Field numeric representation of the day of the week

Drag and Drop support

Restore auto numbering on capture abort in naming templates

Time Zone Support when the "CreationDate" field is selected

Support to append "\_p" to proxy clip names

Multi-Configuration metadata management and enrichment

Metadata management

Metadata generation on capture operations

Metadata fields - prevent overwrite

Protection of metadata fields Delete custom metadata

Edit group clip metadata

Edit source metadata based on a metadata profile

"Description" field editable in metadata widget

"Description" field as a column in the asset explorer list view

Send metadata to Gang Captures

Favorite metadata fields

Create custom metadata fields

Rating metadata field

Metadata source update directly in the metadata widget

Add asset tags insertion in preset list

Support re-using lists of possible values

Update Metadata in Media Central/Interplay using AMT-3 library

Ability to rename media in Interplay after capture began

Take field (counter)





#### **Features**

Support for "Reel" metadata field using Apple ProRes Wrapper

Read metadata from cloud storage (Amazon S3 / Google Cloud Storage / Tencent / IBM Cloud Object Storage)

Preserve Arri specific fields

IMF (Netflix Compliant) output metadata

#### Asset management Check-in

AVID AAF

**AVID** interplay

XML support

XSLT transformation - XML sidecar

Edit share flow

Vizzi OTT check in

#### **Audio support**

Input and output PCM support

Input support for Dolby E-AC-3, Dolby TrueHD, and DTS

Input and output Dolby-E support

DTS Coherent Acoustics (DCA)

Independent audio encoder for hires and proxy

Individual audio mapping by output target

Record audio only streams

Playout audio only streams

Audio downmixing & upmixing

External audio files support (.WAV)

MPEG-4 Audio (M4A) audio format as output

Mute proxy option in output

#### **Close captions**

CEA/EIA - 608

Add sidecar - SubRip (SRT)

Add sidecar - Fragmented WebVTT

Add sidecar - ISMT/CMFT subtitles

Support DVB-S captions in streams

Support captioning for OTT (CMFT, SubRip, and WebVTT)

Stream Closed Captions

#### Locators

Create locators with shortcut keys

Edit locators description

Insertion and viewing

Action fields creation and customization

Comments insertion in a markers widget tab

Order asset locators by timecode

Absolute timecode for source locators

Enter Timecode without the need of entering colons

Eject locators using the player eject button

Support for locators with AMT captures

Send locators to gang captures

Send locators to playout

#### Scheduler (Calendar View)

Scheduled Record

Edit individual events

Allow editing of settings for each occurrence/repetition

Configure the number of events repetitions

Check collision between events with repetitions

Placeholder when editing an occurrence name

Enable field event name as AVID Interplay clipname by default

Pre-set naming templates

Independent targets and multiple outputs support

Capability to set a maximum capture duration

Configurable number of iterations when using maximum capture duration

Use AVID Interplay clip name as event name on crash record events

Pre-roll and post-roll options for scheduled events

Define events to be triggered on any day, on working days only or only on weekends

Possibility to use the calendar notion option in order to adjust for daylight saving time automatically

Ability to edit Start Time field after the first recording

Visualize scheduled events in a List View

Export activity events

Perform captures from a MOG S1000

Perform captures from an Airspeed 5000

Perform captures from a Softron Movie Recorder

# Signal error detection and related recovery actions

Signal error detection

Drop frame detection

Timecode breaks support

Configurable capture resume methodology

Automatic streaming (headless) - Restart capture after stopping/crashing or rebooting

#### Checksum media

MD5 hash file

MDL - Media hash list

#### Live to Live

Delete artifacts on abort





#### **Features**

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

#### **MPEG-TS Support**

Capture of MPEG-Transport Streams

Support of MPEG-TS program IDs

#### NDI

NDI audio and video synchronized mechanism

NDI discovery mechanism

Capture multiple NDI sources

Time of day and embedded timecode options in NDI input

#### **RTMP**

RTMP recording with absolute timecode

RTMP Push Mode in input and output

RTMP Pull Mode in input and output

Native RTMP listener capability

Multiple audio channels in RTMP Output

#### SRT

Input modes: Caller, Listener, and Rendezvous

SRT listener mode as stream output

Stream ID support

Configurable latency settings

Configurable overhead bandwidth

Configurable passphrase

#### WebRTC

Live-m stream input \*Optional

h.264 Support

**VP8 Support** 

VP9 Support

#### **Burn-In Video options**

Graphic burn-in while recording

Text (Position, Text color, Box Color, Font Size)

Timecode (Position, Text color, Box Color, Font Size)

Overlays support (images and videos positioning)

LUT (Look-Up Table) - Save particular color grades as a template

#### File playback

Timecode and metadata overlaying on SDI out

#### **Playout**

Print to tape

#### 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

File based YouTube Upload

Capture X (Twitter) Live

Stream to X (Twitter) Live

Upload to Vimeo

Metadata social annotation and enhancement

#### mTALK

Audio communication between users

QR code implementation

WebApp (requires Android smartphone)

Toggle Mode

#### **Analytics**

Google Analytics and Tag Manager integration

Option to enable and disable Analytics

Track menu events

Video metrics

Track job control widget events

Track asset explorer widget 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

"Keep me signed in" login option

#### Hardware acceleration \*If Hardware is installed or available

Nvidia Nvenc





# Features General Purpose IN/OUT

Cherair dipose in 7001

GPI triggers supported

GPO triggers supported

#### **Additional Highlights**

REST API - allows interaction with RESTful web services

Change Aspect Ratio (4:3 / 16:9 / 1.9:1 / 2:1 or use same as source)

Active Format Description (Option to Preserve, Discard or Override)

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 - Human readable information on Services logs

Logging - Add user information on flow actions

Logging - Structured Logging

SMTP E-mail Notifications

Support an external Database

Microsoft Edge / Firefox and Chrome Support

#### **Unified Interface User Experience**

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 custom dashboard templates

Import and export of users Dashboards

Associate same dashboards to multiple users

LDAP user authentication

User profile management

Users permissions control

Widget based modular interface

Lock/Unlock widgets permission

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

View which servers in a group are running Capture and Ingest Operations in a Group activity widget

Possibility to remove quick edit button from Job Control widget

Permissions to activate or deactivate settings of Gang Capture widget

#### Multiviewei

Configurable 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 logs as a scheduled task

#### Activity

Export last activity

Export all activity

Export activity from a date range

Clear all activity

#### Logs

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

#### Data

Clean data usage

Clean assets, flows and notifications

Factory data reset

Erase all data and reset the system

Force clear cache





# **Technical Specifications**

# **Supported Live Inputs**

	Inputs
•	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)
	Streams
	Video Content Hyperlinks
	HLS
	MPEG-TS
	MPEG-DASH
Live	RTMP
LIVE	RTP
	RTSP
	NewTek NDI
	UDP
	Haivision SRT
	WebRTC
	Social Media Social Media
	Facebook
	Twitch
	X (Twitter)
	YouTube

# **Supported Live Outputs**

	Outputs
	Vizzi
	Live Output
	Social Media *Optional
	Facebook
Live	Twitch
	X (Twitter)
	Vimeo
	YouTube
	Multiple and Adaptive bitrates for the OTT *Optional

# **Supported File Outputs**

	Outputs
	Avid ISIS / Nexis
	Avid Unity™ MediaNetwork
	DDP – Dynamic Drive Pool
	Facilis TerraBlock
	Harmonic MediaGrid
	Editshare EFS
	NAS / SAS (SMB 2.0 and 3.0)
OmDream	Quantum StorNext
OnPrem	ScaleLogic NX2 & ZX NAS Storage
	EMC Isilon
	QNAP
	Studio Network Solutions EVO
	Oracle Storage
	Netapp
	FTP Servers (List on request)
	Generic File Shares





Outputs **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 Cloud Tencent Lucidlink Cloud NAS Google Cloud Storage IBM Cloud Object Storage Generic S3 storages Social Media \*Optional Facebook X (Twitter) Vimeo YouTube

#### **Formats**

### **Output Formats**

Output Formats
( 30/40/50 Mbps
EG2 LGOP 18/25/35 Mbps 4:2:0
EG2 LGOP 50/70 Mbps 4:2:2
EG2 LGOP 422 50 Mbps
EG2 LGOP 420 1440x1080 35 Mbps
EG2 LGOP 420 (FULL) 35 Mbps
CAM 25 Mbps
VC Intra 50 / 100 Mbps
VC LGOP 25 / 35 / 50 Mbps
CPRO 25/50 Mbps / DVCPRO HD 100 Mbps
·
C-Intra 50 / 100 / 200 Mbps
C Ultra (LGOP 6/12/25/50 Mbps)
xHD (SQ/HQ/HQX/LB)
xHR (SQ/HQ/HQX/LB)
264 2160p 35 - 68 Mbps High Profile
264 1440p 16 - 24 Mbps High Profile
264 1080p 8 - 12 Mbps High Profile
264 720p CBR - 6.5 Mbps High Profile
264 720p 5 - 7.5 Mbps High Profile
264 480p 2.5 - 4 Mbps High Profile
264 360p 1 - 1.5 Mbps High Profile
264 2160p 13 - 51 Mbps High Profile (Live)
264 1440p 6 - 18 Mbps High Profile (Live)
264 1080p 3 - 9 Mbps High Profile (Live)
264 720p 1.5 - 6 Mbps High Profile (Live)
264 480p 0.5 - 2.0 Mbps High Profile (Live)
264 360p 0.4 - 1.0 Mbps High Profile (Live)
264 240p 0.3 - 0.7 Mbps High Profile (Live)
264 1080p CBR 15 Mbps MAIN Profile
264 480p CBR 2.3 Mbps MAIN Profile
264 15-30 Mbps MAIN Profile
164 L10 10 Mbps
164 WebRTC Baseline
265/HEVC LGOP 4:2:2
165/HEVC 10 / 25 / 50 / 100 Mbps LGOP
265/HEVC 4K 25 / 50 Mbps LGOP
Res 422 (SQ/HQ/LT)
Res 4444
Res 4444XQ
EG 2000 (Full HD / 4K)
ogle® VP6 / VP7 / VP8
ogle® VP9 (Full HD / 4K)
compressed UYVY 422 / V210 / RGBA
Media Video 1 (Full HD / 4K)
F (JPEG 2000 @ Full HD / 4K)





# **Proxy Formats**

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)
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

# OTT Formats \*

OTT Formats
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.265/HEVC 10 Mbps LGOP
H.265/HEVC 25 / 50 / 100 Mbps LGOP
H.265/HEVC LGOP 4:2:2
Google® VP9 (Full HD / 4K)

<sup>\*</sup> Optional output





# **Product Integrations**

Editing Sytems	MAM / PAM / DAM	Stream	CDN's
Adobe Premiere Pro	CatDV MAM, PAM, DAM	Newtek NDI	Lumen
AVID Media Composer	eMAM Media Asset Management	Haivision SRT	Fastly
AVID Media Composer  AVID Media Central UX	Telestream: Masstech	WebRTC mLIVE	•
			Akamai Technologies
AVID Media Central Cloud UX	AVID Interplay	Consumer Cloud Storages	Microsoft Azure
Apple Final Cut Pro X	AVID Media Central UX	Dropbox	Cloudflare
Edius: Pro 8, Workgroup 9	AVID Media Central Cloud UX	Google Drive	Limelight Networks
BlackMagic: DaVinci Resolve Studio	AXLE MAM	Microsoft One Drive	Amazon CloudFront
Autodesk: Flame	Editshare Flow	Apple I Cloud Drive	BootstrapCDN
Storage	MOG Vizzi	VTR Decks	StackPath
AVID ISIS Storage	Medialoopster MAM	XDCAM HD: Disc (PDW 1500)	KeyCDN
AVID Nexis Storage	Professional Cloud Storages	XDCAM HD: Disc (PDW HD1500)	Rackspace
Avid UnityTM MediaNetwork	Adobe Creative Cloud	XDCAM HD: Disc (PDW F70)	Alibaba Cloud Content Delivery Service
Dynamic Drive Pool SAN Storage	Amazon EC2	XDCAM Station (XDS1000)	CacheFly
Facilis Terrablock	Amazon S3	Cameras	Verizon
Harmonic MediaGrid	Amazon S3 Glacier	Panasonic PTZ Cameras	Hypervisers
Quantum: Storenext	Microsoft Azure Storage	NewTek PTZ3 UHD Camera	Microsoft HyperV
Scalelogic: NX2 & ZX NAS Storage	Microsoft Azure Virtual Machines	NewTek PTZ3 Camera	VMWare ESX
Editshare EFS	Tencent: Cloud Storage	Social Media *Optional	Peripheral Devices
EMC: Isilon	Lucidlink Cloud NAS	Facebook	Countour Shuttle Pro V2
QNAP	Google Cloud Storage	Twitch	Elgato Stream Deck
Studio Network Solutions: EVO	IBM Cloud Object Storage	Twitter	
Oracle Storage	Generic S3	YouTube	
Netapp		Vimeo	

# Minimum Hardware Requirements

# To Record in UHD

Features	Specs
CPU	2x Intel Xeon Gold 6342 2.8G or above
RAM	16x 8GB DDR4
OS Drive	480GB SSD
Network	2x 10 Gb Ethernet Port + 2x 1 Gb Ethernet Port
Capture Card	MOG includes the cards on the kit
Hardware Encoders (Recommendation)	2x Nvidia A2
Operating System	MOG includes the OS image and license

# To Record in FHD

Features	Specs
CPU	2x Intel Xeon Silver 4314 2.4G or above
RAM	8x 8GB DDR4
OS Drive	480GB SSD
Network	2x 10Gb Ethernet Port + 2x 1 Gb Ethernet Port
Capture Card	MOG includes the card on the kit
Hardware Encoders (Recommendation)	1x Nvidia A2
Operating System	MOG includes the OS image and license

# **Kit Contents**

Features	Specs
Digital Software Delivery	Yes
Operating System Provided by MOG	Windows 10 IOT LTSC or SAC
Capture Card	1x DeckLink 8K Pro for 12G UHD SDI (Full Height card) <b>or</b> 1x DeckLink Duo 2 Mini for 3G HD SDI (Low Profile card)
Acceleration Card	Not included
MOG Peripheral USB External Box	Included





# **Concurrent Media Operations**

With mREC Kit, 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 recording, file preview, live channel switching, and intercom.

By default, the mREC Kit supports up to 2 media operations at the same time, but it is widely scalable, allowing you to add more channels to scale the solution accordingly to your needs. With this, you can combine the operations shown in the table below:

Concurrent Media Operations			
Record	File Preview	Live Switch	Intercom
Kit includes 2 live channels *	Up to 5 files preview	Up to 1 operation	Up to 1 operation

<sup>\*</sup> Can be scalable

# **Product**

Part Number	Product	Description
mrkt	mREC Kit	Recording video files kit with a scalable limit of channels

# **Available Options**

Choose from the products below to customize the mREC Kit according to your business rules.

#### **Production Tools**

Tools for asset management and workflow orchestration.



#### **mPAM**

Benefit from a state-of-the-art content and production asset manager tool with 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.



#### 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
mpam1u	mPAM	Content and production asset manager per licensed user
mpla1c	mPLAN	Scheduler & Router Control per licensed channel

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

#### Add-ons

Input option to complement your workflows.

Part Number	Product	Description
mrktac	Additional channel	Scale the number of channels

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

Output option to complement your workflows.

Part Number	Product	Description
ktoasa	OTT & Social media	Multiple output resolutions for OTT & Simultaneous social media shares

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



# **mREC**

### **Plugins**

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



#### Live-m

Create powerful, engaging videos from any location with your mobile device.

Live-m makes it easy to send streams from and to any mobile device directly into mREC. Configure your rooms, and invite as many users as you want, from anywhere on the globe.



#### 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
Impi	Live-m plugin	Mobile acquisition & Streaming
smpi	Screen-m plugin	Screen capture & Delivery

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

#### **Hardware Encoder**

Part Number	Product	Description
ktavhw	AVC hardware encoder	AVC-Ultra hardware encoder accelerator

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

Contact our sales team at <a href="mailto:sales@mog-technologies.com">sales@mog-technologies.com</a> to find out how to purchase or in case you need more information.

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