

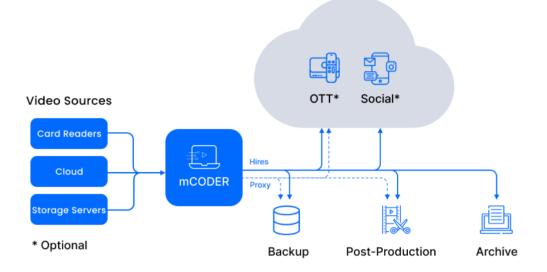
mCODER Software



Overview

mCODER is a professional multi-format and real-time transcoding system that can automatically transcode assets to internal house formats for a wide variety of media workflows.

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



Highlights

- Operation modes: manual, scheduled, and automatic
- Ingest and/or transcode the contents according to the destination format
- Supports spanned clips (Sony XDCAM EX, Panasonic P2, Panasonic GH5, GoPro and Canon)
- Optional remote preview for media selection, sub-clipping, and merge
- Burnt-in options: text, timecode, overlays (images and videos), and LUT •

Specially Designed For

- Educational/Government
- Live Entertainment/Worship
- Corporate
- Sports

- Flexible file renaming engine
- Enable edit while ingest
- Metadata preservation and enhancement
- Multiple simultaneous transcodes
- Full featured local and remote user interface
- Proxy generation
- Artificial intelligence
- Film/TV Studio/Scripted
- Digital News
- Post-Production
- Television/Broadcasting



Features

| Features |
|--|
| Operation modes |
| Automatic |
| Manual |
| Scheduled |
| Clipnaming |
| Flexible file renaming engine |
| Create diversified clipnaming templates |
| Clipnaming based on Metadata Profiles |
| Use of common labels (Id, label, Counter, Date, Original Source Name, Weekday, User) |
| Field numeric representation of the day of the week |
| Folder Structure creation |
| Drag and Drop support |
| "CreationDate" field can refer to a desired Time Zone |
| Add the label "_p" to proxy clips' names |
| Multi-Configuration metadata management and enrichment |
| An efficient internal asset management |
| Quickly search for assets metadata |
| Directly manage your assets metadata |
| Prevent the overwrite of metadata fields |
| Protect metadata fields |
| Delete custom metadata |
| Edit a file's source metadata based on a configured metadata profile |
| "Description" field editable in metadata widget |
| Set "Description" field as a column in the Asset Explorer list view |
| Favorite metadata fields |
| Create custom metadata fields |
| Add a "Rating" metadata field Update the source metadata directly through the metadata widget |
| Add asset tags insertion in preset list |
| Re-use lists of possible values |
| Update Metadata in Media Central/Interplay using AMT-3 library |
| Take field (counter) |
| Support for "Reel" metadata field using Apple ProRes Wrapper |
| Read metadata from pre-configured cloud storages (Amazon S3 / Google Cloud Storage / Tencent / IBM Cloud Object Storage) |
| Preserve specific Arri fields |
| Preserve RED digital cinema color information |
| Find immediately and learn everything about any asset |
| 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 |
| Asset management Check-in |
| AVID AAF |
| AVID interplay |
| XML support |
| XSLT transformation - XML sidecar |
| Edit share flow |
| Vizzi OTT check in |
| Support for update on Vizzi OTT check-in |
| 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) PCM 96KHz support Independent audio encoder for hires and proxy Individually map your audio by output target Playout audio only streams Loudness normalization (EBU R128) Audio downmixing & upmixing External audio files support (.WAV) MPEG-4 Audio (M4A) audio format as output Ability to mute proxy on the output **Close captions** CEA/EIA - 608 Scenarist (SCC) Add sidecar - SubRip (SRT) Add sidecar - Fragmented WebVTT Add sidecar - ISMT/CMFT subtitles DCP subtitle burn-in (.SCC) Digital Cinema Package (DCP) open captioning Support captioning for OTT (CMFT, SubRip, and WebVTT) Stream with Closed Captions Locators Edit and delete locators Merge locators Preserve Metadata Enhancement locators created by an Automatic Job Scheduler (Calendar View) Schedule Automatic Jobs 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 Ability to Ignore files before a start date Placeholder when editing an occurrence name Use pre-set naming templates 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 Checksum media MD5 hash file MDL - Media hash list File ingest Execute multiple simultaneous transcodes Batch ingest Card ingest Clip merge Clip renaming Disable Clip File Naming generation Ingest while growing Growing file support for Grass valley Edius Workgroup v.9 and X Partially restore clips Rough cut Establish priority levels Pause File Based ingest operations Insert Subclips SOM and EOM without colons Automatic drag and drop ingest Drag and drop media from several social networks Generate XML sidecar with WAV file as output while ingest Generate a .xml file for each output AVID clip or AVID sequence Merge as Sequence from MP4 proxy files

Features



| Features |
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| Merge as sequence by sequence XML for MP4 |
| Automatically select workflows available in job control attending the source files |
| Directly select the storage on the dashboard instead of accessing workflow profiles |
| Copy assets |
| Group resulting assets into a single one |
| Copy - Transfer sidecars if available |
| Encode the contents according to the destination format |
| Decode the contents according to the destination format |
| Move assets |
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| Edit while transcoding/ingesting |
| Place locators on growing files |
| Multiple resolutions check-in |
| Frame rate conversion |
| Variable Frame Rate Input |
| 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) |
| Ability to perform "Run after completion" scripts |
| Audio only OPAtom as output |
| Opt to not overwrite files |
| Support for .MOV files containing "Run-length encoding" video essence |
| Enable "growing" support on EDL ingest workflow |
| Timecode SUM of selected cuts |
| Merge assets as EDL, regardless of the input's format |
| Merge Trimmed files |
| Merge files with different framerates |
| Merge P2 with different audio channels |
| Merge operations for Devices sources |
| Allow the merge of more than 200 assets |
| Support for spanned Panasonic P2 structure |
| Preserve original time code breaks in Panasonic P2 Format |
| Mute proxy option in output (requires proxy option) |
| Create Edit Decision Lists with cut points |
| View the total duration of the sub-clips in an EDL widget |
| Ingest from cloud locations |
| Digital Cinema Package (DCP) support |
| Choose to force fragment MP4 clips while uploading to a S3 bucket |
| Generation of MP4 files as fragmented MP4 with DCP packager |
| Digital Picture Exchange (DPX) support |
| Select IMF (Netflix Compliant) as the output metadata |
| FTP for generic network devices as input |
| Ability to delete OPAtom source files after ingest |
| Support for GOPRO spanned files |
| Support video with vertical rotation |
| MOG file package support |
| Support MOG Package from Cloud Storages |
| Outgest growing media directly from Interplay |
| Dual check in to interplay in a merge as sequence operation with the same MOBID for the sequences |
| HDR (PQ, HLG) conversion to SDR as output |
| Ingest image files |
| Support 48fps drop frame media (DJI Camera Drones) |
| Support for spanned clips |
| XDCAM support for spanned & merge clips in network locations/network devices |
| Add black bars to match the aspect ratio |
| Delete an Output via Job Abort |
| Schedule an Ingest operation through the Calendar via Automatic Jobs |
| Ingest and/or transcode the contents according to the destination format |
| Vubiquity assets support |
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| Support for Vizzi collections as input files Rrowse Avid Interplay folder structure from within the "Workflow selection window" |
| Browse Avid Interplay folder structure from within the "Workflow selection window" Avid Sub Clip expect referencing Growing Master Clip |
| Avid Sub Clip export referencing Growing Master Clip Generate Avid OPAtom assets to an FTP server |
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| Independent targets and multiple outputs |
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Features



| Features |
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| Manage via web interface or REST APIs for integration with automation system |
| Update Metadata in Media Central/Interplay using AMT-3 library |
| Create Live Ingest Operations |
| Live Sources made available in the Asset Browser/Explorer widgets |
| Override start timecode |
| Index clips with same name but with different metadata |
| Exclude file extensions from File inputs |
| Burn-In Video options |
| Graphic burn-in while ingesting |
| 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 |
| Quality control - Report |
| Video Report |
| Black frames detection |
| Video freeze detection |
| Scene change detection |
| Audio Report |
| Audio clipping detection |
| Loudness detection |
| Silence detection |
| Others |
| Timecode gap detection |
| Automated ingest |
| Dynamic workflows using metadata fields |
| Dynamic workflows with support for metadata without sidecars |
| Delete Assets in Dynamic Jobs |
| Support different input types on dynamic configurations |
| Ignore files before a start date |
| Re-process assets with the same name |
| Support metadata enhancement workflows |
| Vizzi Collections support |
| File playback |
| Preview Editing Decision Lists |
| Preview Clip Lists |
| Read Metadata Timecode Package (Auto / Material Package / Source Package) |
| Input/output social media *Optional |
| Google Chrome Social-m Plugin |
| Social-m - Add support for live stream capture Metadata in Chrome Social-m Plugin |
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| 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 |
| Metadata Enhancement and preservation |
| Artificial Intelligence |
| Audio |
| Audio clipping detection |
| Loudness detection |
| Silence detection |
| Voice activity detection |
| Audio mute detection |
| Audio phase detection |
| Mono audio detection |
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| Features |
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| Video |
| Black frames detection |
| Video freeze detection |
| Scene change detection |
| Black Margins detection |
| Flashing video detection |
| Object |
| Concept tagger 2.0 |
| Vehicle detection |
| License plate detection |
| Others |
| Timecode gap detection |
| Update existing interplay entry with new metadata |
| Possibility to add bounding boxes to player |
| Transform |
| Automatically Blur License Plates |
| Black margins automatic crop |
| Remove audio clicks |
| Remove audio clipping |
| Al Upscale |
| Reduce video flashing |
| Additional AI Operations |
| Face recognition 2.0 |
| Face recognition - Support dataset with multiple images for each person |
| Age prediction detection |
| Object detection 2.0 |
| Optical Character Recognition (OCR) |
| Speech recognition 2.0 (with ability to detect non speech tokens) |
| 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 |
| DASH/HLS packager with DRM |
| 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 |
| Transfer acceleration protocols |
| Aspera FASP transport technology - Transfer acceleration protocol |
| FileCatalyst direct - Transfer acceleration protocol |
| General Purpose IN/OUT |
| 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 |
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| Markan et al. All set on the particule was an an antibule of the particule was an antibule of the particule was an antibule of the particule was antibule of the particule | Features |
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| Logging - Human readable information on Services logs Logging - Structured Logging Reserve SMTP notifications via e-mail Support in extent Database Microsoft Edge / Frefor / Stant and Chrome Support Diffed Intradee Database Diffed Database Database Diffed Database Diffed Databasee Database Diffe | Manage via web interface or REST APIs for integration with automation system |
| Loging - Add user Information on flow actions Receive SMTP notifications via e-mail Support an external Database Microsoft Eagl, Friedry J start and Chrome Support Configurable with inferface access port Embeddable Dashboards Middens Problematic Start access port Configurable with inferface access port Dashboards based experience where users can create their own personalized view Dashboards prove for ease-ord use diployment Dashboards prove for ease-ord use diployment Dashboards prove for ease-ord use diployment Loser profite management Loser profite management </td <td>Configurable quality and target latency of the preview stream</td> | Configurable quality and target latency of the preview stream |
| Loging - Structured Loging Reveive SMTP notifications vie - mail Support an oxternal Database Microsoft Edge / Fiefor / Stark and Chrome Support Configurable web interface access port Embeddatio Databased Witch Interface See Faperiance Embeddatio Databased/Witches Web-Sased Interface with video proview Databased stade acceptince webser users can create their own personalized view Databased stade acceptince webser users can create their own personalized view Databased stade acceptince webser users can create their own personalized view Databased stade acceptince webser users can create their own personalized view Databased instruct Loging databased Mort Loging Advanced multiple users LockUndox widgets permission User portile management LockUndox widgets permission Touch screen mode Mort Loging Advanced multiple interface Mort Loging Advanced multiple interface Multi Loging Support Stor Mort Multi Loging Support Multi Loging Support Multi Loging Support Multi Loging Serverside Tables/ Serverside Multi Loging Loging Loging Loging Loging </td <td>Logging - Human readable information on Services logs</td> | Logging - Human readable information on Services logs |
| Reserve SMTP notifications via e-mail Support entered Database Versort Edge / Firetox / Safari and Chrome Support Unifier database interface access port Enterdatable Dashbards/Widgets Web-Based Interface with video proview Dashbards based experience where users can create their own personalized view Dashbards proview or dashbard templates (Finance access port (Less) Cashbards (Less) (Less | Logging - Add user information on flow actions |
| support an external batabase Microsoft Edge / Florkor / Satria Ghome Support Configurable web interface access port Embeddabb Dashboards/Wights Web: Based interface with video preview Dathboards based oxperience were currents their own personalized view Dathboards based oxperience were ore users currents their own personalized view Dathboards based oxperience were ore users currents their own personalized view Dathboards based oxperience were ore users currents their own personalized view Dathboards based oxperience were ore users currents their own personalized view Dathboards based oxperience were ore users currents their own personalized view Dathboards based oxperience were over currents their own personalized view Dathboards based oxperience were over currents their own personalized view Date seen anterface thempes (Midnight, Carbon, Dark or High contrast theme) Choose batewere multiple interface themes (Midnight, Carbon, Dark or High contrast theme) Touch sereen mode Multi Language Support User portilisations needed to resume a workflow Multi Language Support User tour Nothorin - Avained metrics Multi Language subtextue the and configurations Multi Language subtextue the access to estume a workflow | Logging - Structured Logging |
| Microsoft Edge / Frefox / Safari and Chrome Support Unified Interface Used Experience Configurable web Interface access port Entrodedable Dashboards/Widgets Web-Based Interface with vides preview Dashboards based experience where users can create their own personalized view Dashboards towels for ease-of-use deployment Create your own custom dashboard templates Import and Export User's Dashboards Associate a single dashboard to multiple users LDAP user authentication User port Imagement | Receive SMTP notifications via e-mail |
| United fuer fuer fuer fuer fuer fuer fuer fuer | Support an external Database |
| Configurable web interface access port Embeddable Dashboards/Widgets Wab-Based Interface with video preview Dashboards based experience where users can create their own personalized view Dashboards presents for ease-or-tax deployment Create your aven custem dashboard emplates Import and Expert Users' Dashboards Associate a single dashboard to multiple users LDAP user authentication Users prefina management Users prefina management Lock/Unlock widgets permission Chocks batween multiple interface themes (Midnight, Carbon, Dark or High contrast theme) Tock screen mode Montoring - Advanced metrics Multi Language Support Users prefina management Users for ease-oring a screen multiple interface themes (Midnight, Carbon, Dark or High contrast theme) Tock screen multiple interface themes (Midnight, Carbon, Dark or High contrast theme) Tock screen mode Montoring - Advanced metrics Multi Language Support Users for ease-oring a screen screen wolflow Montoring - Advanced metrics Multi Language Support Users for ease-oring a screen scre | Microsoft Edge / Firefox / Safari and Chrome Support |
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| Web-Based Interface with video preview Dashboards based experience where users carceate their own personalized view Dashboards preview on custom dashboard templates Import and Export User? Dashboards Associate a single dashboard templates LDAP user authenciation LDAP user authenciation User profile management User profile dasted back Barbard preview pre | Configurable web interface access port |
| Dashboards based experience where users can create their own personalized view Dashboards presets for ease-of-use deployment Create your own custom dashboards Associate a single dashboard templates LDAP user authentication User profile management Users profiles monagement Midgets permission Choose between multiple interface themes (Midnight, Carbon, Dark or High contrast theme) Touch screen mode Monitoring - Advanced metrics Multi Language Support User torm Multi Language Server's activity in a Group Activity Widget Multiver Define the quality and target talency of the preview stream Maintenance Export database (backup) as a scheduled task Export data tority from a date range Export data tority from a dat | Embeddable Dashboards/Widgets |
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| Show/Hide player overlays Notifications of required actions needed to resume a workflow Monitor Grouped Servers' activity in a Group Activity Widget Multiviewer Define the quality and target latency of the preview stream Multiviewer Scheduler Reboot host or group Export database (backup) as a scheduled task Export database (backup) as a scheduled task Export last activity Export last activity Export last activity Export last activity from a date range Export lags Export lags Export lags Export lags Input full backup - A full backup will create an archive of all the files and configurations Import full backup Dashboards Export database for on one user or all users Import dashboards from one user or all users Import dashboards for on on user or all users Dashboards Clean data usage Clean data usage Clean data usage | Multi Language Support |
| Notifications of required actions needed to resume a workflow Monitor Grouped Servers' activity in a Group Activity Widget Multiviewer Define the quality and target latency of the preview stream Maintenance Scheduler Reboot host or group Export database (backup) as a scheduled task Export lats as cheduled task Export last activity Export all activity Export database (backup) as a scheduled task Export last activity Export database (backup) as a scheduled task Export last activity Export last activity Export database (backup) as a scheduled task Export last activity Export logs Backup Export full backup - A full backup will create an archive of all the files and configurations Import full backup Faport full backup will create an archive of all the files and configurations Import full backup as from one user or all users Import dashboards from one user or all users Data | User tour |
| Monitor Grouped Servers' activity in a Group Activity Widget Multiviewer Define the quality and target latency of the preview stream Maintenance Scheduler Reboot host or group Export database (backup) as a scheduled task Export logs as a scheduled task Abirtity Export lats activity Export lat activity Export all activity Export all activity Export lats activity Export lats activity Export lats activity Export lats activity Export all activity Export lats backup A ctivity from a date range Clear all activity 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 active or all users Export dashboards from one user or all users Import dashboards Otat Clean data usage Clean data usage | Show/Hide player overlays |
| Multiviewer Define the quality and target latency of the preview stream Maintemance Scheduler Reboot host or group Reboot host or group Export database (backup) as a scheduled task Export database (backup) as a scheduled task Activity Export as a scheduled task Activity Export ast activity Export activity from a date range Clear all activity Scheduley - 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 - 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 - 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 - A full backup will create an archive of all the files and configurations Import dashboards from one user or all users Import dashboards Clean data usage Clean data usage | Notifications of required actions needed to resume a workflow |
| befine the quality and target latency of the preview stream baintenance bothoat or group Reboot host or group Reboot host or group Export database (backup) as a scheduled task byort latabase (backup) as a scheduled task byort lats activity byort lats activity byort lat activity byort latabase (backup) as a scheduled task byort latabase (backup) as a scheduled taskup clean dashboards from one user or all users | Monitor Grouped Servers' activity in a Group Activity Widget |
| biterance scheduler Reboot host or group Reboot host or group Export database (backup) as a scheduled task Scheduler Export last activity Export activity from a date range Clear all activity Clear all activity Export last activity Export last activity Export last activity Export activity from a date range Export last activity Export last activity Export activity Export activity Export last activity Export activity Export activity Export activity Export activity Export activity Export dashboards from one user or all users Import dashboards For dashboards Clean data usage Clean assets | Multiviewer |
| Scheduler Reboot host or group Export database (backup) as a scheduled task Export logs as a scheduled task Activity Activity Export last activity Export all activity Export logs Clear all activity Export logs Export logs Export logs Export logs Export lub 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 active or all users Import databacds from one user or all users Import databacds from one user or all users Import databacds Oxta Clean data usage Clean assets, flows and notifications | Define the quality and target latency of the preview stream |
| 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 Export logs Backup Export full backup - A full backup will create an archive of all the files and configurations Import full backup Dashboards Import dashboards from one user or all users Import dashboards Clean data usage Clean assets, flows and notifications | Maintenance |
| 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 Export logs Export logs Backup Export full backup - A full backup will create an archive of all the files and configurations Import full backup Export dashboards from one user or all users Import dashboards Clean data usage Clean assets, flows and notifications | Scheduler |
| Export logs as a scheduled task Activity Export last activity Export all activity Export all 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 Import dashboards from one user or all users Import dashboards Clean data usage Clean assets, flows and notifications | Reboot host or group |
| 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 Clean data usage Clean assets, flows and notifications | Export database (backup) as a scheduled task |
| 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 Import full backup Export dashboards from one user or all users Import dashboards Clean data usage Clean assets, flows and notifications | Export logs as a scheduled task |
| 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 Export dashboards Import dashboards from one user or all users Import dashboards Clean data usage Clean assets, flows and notifications | Activity |
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| 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 | Export logs |
| Import full backup Dashboards Export dashboards from one user or all users Import dashboards Data Clean data usage Clean assets, flows and notifications | Backup |
| Dashboards Export dashboards from one user or all users Import dashboards Data Clean data usage Clean assets, flows and notifications | Export full backup - A full backup will create an archive of all the files and configurations |
| Export dashboards from one user or all users Import dashboards Data Clean data usage Clean assets, flows and notifications | |
| Import dashboards Data Clean data usage Clean assets, flows and notifications | Dashboards |
| Data Clean data usage Clean assets, flows and notifications | |
| Clean data usage Clean assets, flows and notifications | |
| Clean assets, flows and notifications | |
| | |
| | |
| | Perform a Factory Data Reset |
| Erase all data and reset the system | |
| Force clear cache | Force clear cache |



Technical Specifications

Supported File Inputs

Inputs

| | mputs |
|----------|--|
| | 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 |
| | Panasonic P2 |
| | |
| | AJ PCD 2 / AJ PCD 20/30/35 / AJ MPD1 |
| | AU-XPD1E / AU-XPD3EJ |
| | Multi Clip/Spanned XDCAM/XAVC/XDCAM-EX Structure |
| | XDCAM EX |
| | Sony SxS (SBAC-UT100, SBAC-US10/20/30) |
| | Sony XQD (MRW E-80, MRW E-90) |
| | XDCAM HD |
| | Sony XDCAM HD: Disc (PDW-U1, PDW-U2, PDW-U4) |
| | XAVC Structures |
| OnPrem | DJI (Camera Drones) |
| | HLS Structures |
| | MPEG-TS Structures |
| | MOG Package |
| | |
| | Network |
| | XDCAM Network |
| | P2 Network |
| | ARRI RAW Network |
| | Ikegami Network |
| | 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 |
| | EMC Isilon |
| | |
| | QNAP |
| | Studio Network Solutions EVO |
| | Oracle Storage |
| | Netapp |
| | Social Media |
| | Facebook |
| | X (Twitter) |
| | Vimeo |
| <u>.</u> | YouTube |
| Cloud | Professional Cloud Storages |
| | Adobe Creative Cloud |
| | Amazon S3 Glacier |
| | Microsoft Azure Storage |
| | Tencent |
| | |
| | |



Inputs

mCODER

| | niputa |
|-------|--------------------------|
| | Lucidlink Cloud NAS |
| | Google Cloud Storage |
| | IBM Cloud Object Storage |
| | Generic S3 storages |
| Cloud | Consumer Cloud Storages |
| | Apple I Cloud Drive |
| | Dropbox |
| | Google Drive |
| | Microsoft One Drive |

Supported File Outputs

| | Outputs |
|--------|---|
| | Avid ISIS / Nexis |
| | Avid UnityTM MediaNetwork |
| | DDP – Dynamic Drive Pool |
| | Facilis TerraBlock |
| | Harmonic MediaGrid |
| | Editshare EFS |
| | NAS / SAS (SMB 2.0 and 3.0) |
| OnPrem | 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 |
| | 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 |
| Cloud | Microsoft Azure Storage |
| oloud | Tencent |
| | Lucidlink Cloud NAS |
| | Google Cloud Storage |
| | IBM Cloud Object Storage |
| | Generic S3 storages |
| | Social Media *Optional |
| | Facebook |
| | X (Twitter) |
| | Vimeo |
| | YouTube |

Supported Live Outputs

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



Formats

Input Formats

mCODER

Input Video 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 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 | |
| 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) Google® VP9 (8K) Uncompressed UYVY 422 / V210 / RGBA AOMedia Video 1 (Full HD) AOMedia Video 1 (Full HD) AOMedia Video 1 (4K) IMF (JPEG 2000 @ Full HD) IMF (JPEG 2000 @ 4K) IMF (JPEG 2000 @ 8K)

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 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-5 EVC Baseline Profile MPEG VVC/H266 Main Profile ProRes 422 (SQ/HQ/LT) ProRes 4444 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

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 *

H.264 1080 H.264 720p H.264 480p H.264 360p H.264 1080 H.264 720p H.264 480p H.264 360p H.264 240p H.264 360p H.264 432p H.264 576p H.264 720p H.264 1080 H.264 576p H.264 720p H.264 1080 H.265/HEV0 H.265/HEV0 H.265/HEV0 H.265/HEV0 H.265/HEV0 Google® VP Google® VP9 (4K)

Output OTT Formats

mCODER

| Output OTTFormats |
|---------------------------------------|
| 30p 8 - 12 Mbps High Profile |
| 0p 5 - 7.5 Mbps High Profile |
| Op 2.5 - 4 Mbps High Profile |
| Op 1 - 1.5 Mbps High Profile |
| 30p 3 - 9 Mbps High Profile (Live) |
| 0p 1.5 - 6 Mbps High Profile (Live) |
| Op 0.5 - 2.0 Mbps High Profile (Live) |
| Op 0.4 - 1.0 Mbps High Profile (Live) |
| Op 0.3 - 0.7 Mbps High Profile (Live) |
| Op CBR MAIN Profile |
| 2p CBR MAIN Profile |
| Sp CBR MAIN Profile |
| Dp CBR MAIN Profile |
| Op CBR MAIN Profile |
| Sp CBR - 3 Mbps MAIN Profile |
| Dp CBR - 4 Mbps MAIN Profile |
| Op CBR - 5Mbps MAIN Profile |
| VC 10 Mbps LGOP |
| VC 25 Mbps LGOP |
| VC 50 Mbps LGOP |
| VC 100 Mbps LGOP |
| VC LGOP 4:2:2 |
| /P9 (Full HD) |
| /P9 (4K) |

* Optional output

Product Integrations

| Editing Sytems | MAM / PAM / DAM | Cameras | Consumer Cloud Storages |
|--|-------------------------------------|--|---|
| Adobe Premiere Pro | CatDV MAM | Canon (DSLR5D, DSLR 7D) | Dropbox |
| AVID Media Composer | CatDV PAM | Canon (DSLR C300, DSLR C100) | Google Drive |
| AVID Media Central UX | CatDV DAM | ARRI Alexa XT (ARRIRAW) | Microsoft One Drive |
| AVID Media Central Cloud UX | eMAM Media Asset Management | Panasonic AU-EVA1 | Apple I Cloud Drive |
| Apple Final Cut Pro X | Telestream: Masstech | Panasonic GH5 Cameras | CDN's |
| Edius: Pro 8, Workgroup 9 | AVID Interplay | Panasonic CX350 HEVC | Lumen |
| BlackMagic: DaVinci Resolve Studio | AXLE MAM | lkegami Gfpack | Fastly |
| Autodesk: Flame | Editshare Flow | JVC AVC HD camera models | Akamai Technologies |
| Storage | MOG Vizzi | LUMIX DC-S1H | Microsoft Azure |
| AVID ISIS Storage | Structures | RED Digital Cinema | Cloudflare |
| AVID Nexis Storage | XAVC Structures | GOPRO | Limelight Networks |
| Avid UnityTM MediaNetwork | Professional Cloud Storages | Card Readers | Amazon CloudFront |
| Dynamic Drive Pool SAN Storage | Adobe Creative Cloud | Panasonic P2 (AJ PCD 2 / AJ PCD 20/30/35) | BootstrapCDN |
| Facilis Terrablock | Amazon EC2 | Panasonic P2 (AJ MPD1) | StackPath |
| Harmonic MediaGrid | Amazon S3 | Panasonic P2 (AU-XPD1E / AU-XPD3EJ) | KeyCDN |
| Quantum: Storenext | Amazon S3 Glacier | Panasonic P2 (AG HPG 20) | Rackspace |
| Scalelogic: NX2 & ZX NAS Storage | Microsoft Azure Storage | Sony XDCAM EX (SxS Cards): SBAC-US10/20/30 | Alibaba Cloud Content Delivery Service |
| Editshare EFS | Microsoft Azure Virtual Machines | Sony XDCAM EX (SxS Cards): SBAC-UT100 | CacheFly |
| EMC: Isilon | Tencent: Cloud Storage | Sony XDCAM EX (SxS Cards): MRW E-80 | Verizon |
| QNAP | Lucidlink Cloud NAS | Sony XDCAM EX (SxS Cards): MRW E-90 | Social Media *Optional |
| Studio Network Solutions: EVO | Google Cloud Storage | Sony Disc Reader: PDW-U1, PDW-U2 | Facebook |
| Oracle Storage | IBM Cloud Object Storage | VTR Decks | Twitch |
| Netapp | Generic S3 | XDCAM HD: Disc (PDW 1500, PDW HD1500) | X (Twitter) |
| Archive | Hypervisers | XDCAM HD: Disc (PDW F70) | YouTube |
| Archiware P5 | Microsoft HyperV | XDCAM Station (XDS1000) | Vimeo |
| Xendata Archive Appliances | VMWare ESX | Transfer Acceleration Protocols | |
| Oracle Front Porch Digital DIVArchive | | File Catalyst Direct | |
| | | IBM: Aspera File Transfer | |





Minimum Hardware Requirements

To ingest and transcode 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 |
| Hardware Encoders (Recommendation) | 2x Nvidia A2 (H.264) |
| Operating System | Windows 10 IOT LTSC or SAC |

To ingest and transcode 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 |
| Hardware Encoders (Recommendation) | 1x Nvidia A2 (H.264) |
| Operating System | Windows 10 IOT LTSC or SAC |

Concurrent Media Operations

With mCODER, it is possible to run different media operations simultaneously, thus guaranteeing distinct arrangements to meet the challenging media day-to-day activities.

Media operations include ingest, transcoding, and file preview.

By default, it is designed to accommodate the simultaneous execution of up to 2 media operations simultaneously. However, its extensive scalability provides the flexibility to incorporate additional operations based on your specific requirements. This versatility allows you to perfectly combine the operations shown in the table below:

| Concurrent Media Operations | | |
|---|--|--|
| Ingest & Transcode File Preview | | |
| Includes 2 media operations * Up to 5 files preview | | |
| * Can be scalable | | |

Product

| Part Number | Product | Description | |
|-------------|-----------------|--|--|
| mcsw | mCODER Software | File ingest system with a scalable limit of media operations | |

Available Options

Choose from the products below to customize the mCODER 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.

| Part Number | Product | Description |
|-------------|---------|--|
| mpam1usw | mPAM | Content and production asset manager per licensed user |

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



Add-ons

Input option to complement your workflows.

| Part N | umber | Product | Description |
|--------|-------|----------------------|--------------------------------|
| mcs | swac | Additional operation | Scale the number of operations |
| | | | |

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

Output options to complement your workflows.

| Part Number | Product | Description |
|-------------|---------------------------------------|--|
| oasasw | OTT & Social media | Multiple output resolutions for OTT & Simultaneous social media shares |
| oasaacsw | Additional OTT & Social media channel | Scale the number of OTT & Social media channels |

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

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 mCODER 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.

| Part Number | Product | Description |
|-------------|-----------------|-----------------------------------|
| smpi | Social-m plugin | Social media capture & Publishing |
| | | |

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

Hardware

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

| - AVC encoder card To enable the AVC-Ultra hardware encoder accelerator (Supplier market price) | Part Number | Product | Description |
|---|-------------|------------------|--|
| | - | AVC encoder card | To enable the AVC-Ultra hardware encoder accelerator (Supplier market price) |

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

Artificial Intelligence

Artificial intelligence engine to boost and facilitate media tasks even more.

| Default (already included) | | |
|----------------------------|---|--|
| Black frames detection | Voice activity detection | |
| Video freeze detection | Silence detection | |
| Black margins detection | Loudness detection | |
| Audio clipping detection | Loudness balance | |
| Audio mute detection | Vehicle detection | |
| Audio phase detection | License plate detection | |
| Audio mono detection | Concept tagger | |
| Timecode gap detection | Bouncing boxes | |
| Scene change detection | Update existing interplay entry with new metadata | |
| Transformation | | |
| Frame rate conversion | Crop black margins | |
| Remove audio clicks | Al upscale | |
| Remove audio clipping | Blur license plates | |

| Additional AI Operations | | |
|--------------------------|-------------------------------------|--|
| Part Number | Product | |
| mcswaifr | Face Recognition and Age Prediction | |
| mcswaiod | Object Detection | |
| mcswaicr | Optical Character Recognition | |
| mcswaisr | Speech Recognition | |

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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