

## mxfsPEEDRAIL mediaREC Overview

mediaREC is an SDI Video Recorder for content production, post-production, finishing, and distribution. It is one of the mxfsPEEDRAIL Central Ingest Platform components.

All mxfsPEEDRAIL products, including mediaREC, can perform as standalone tools. This ability is perfect for small environments or very specific tasks.

For larger environments or bigger workloads, mxfsPEEDRAIL can cluster with other family members without the need for any extra software. Any of the mxfsPEEDRAIL products can behave as the central management platform for a cluster where multiple systems and multiple functionalities are managed from one single interface.

It is a truly centralized media management platform, from Ingest to Distribution. Systems are easily added or removed from the groups and alternating between standalone or group mode is as simple as a drag and drop.

mediaREC will simplify your media recording tasks, with its extensive feature set.



## Product Highlights



### Manual, Automatic and Scheduled Control

Recordings can be started in several ways: by simply pressing the record button on the interface (crash - recording); pre-scheduled by using the platform scheduling engine; or within a Gang (control multiple channels simultaneously through a single interface).



### Wide Range of Supported Sources

The system supports SD, HD and 4K resolutions over IP Live (SMPTE 2022 & 2110), SDI and HDMI interfaces all frame rates, 8, 10 and 12 bits video 4:2:0 to 4:4:4 with up to 16 audio channels (embedded). Multiple output codecs are available for each input configuration.



### Multi-Format and Multi-Resolution

Able to generate output media in multiple resolutions in a single step. It accelerates the media ingest in workflows where more than one copy of media is needed, even if in distinct locations.



### Scheduling engine

mediaREC integrates a scheduling engine for both recording and maintenance events. The recording events can also be applied in Gang configurations, allowing to start recording multiple channels simultaneously.



### VTR Control

mediaREC can control VTRs using the VDCP and BWW protocols through RS422 ports.



### Metadata Handling

mediaREC has a very easy and flexible metadata configuration schema.



### Gang Control

Create "Gangs" with (2) two or more channels. Preview all the channels on the same interface. Control the gang from one single point, either if it is a "crash" recording or a scheduled recording.



### Flexible File Naming Engine

mediaREC features a file naming engine that is easily configurable and extremely flexible. It can use metadata to populate parts or the full file name and interact with the file destination path based on the media metadata.



### Edit-While-Ingest

Media ingested by mediaREC follows the needed guidelines/rules to be edited while it's being created, this allows starting processing media even while it is being ingested.



### Web-Based Interface with video preview

Interface directly with social media accounts. Get your assets to social media platforms with one single click, or automatically. Generate the needed formats for features like adaptive bit rates in one pass.

# Technical Specifications

## SOURCE

Supported Inputs	<ul style="list-style-type: none"> <li>SD-SDI (SMPTE 259M)</li> <li>HD-SDI (SMPTE 292M)</li> <li>UHD-SDI (SMPTE ST-2081/SMPTE ST-2082) <i>*(Available on UHD 4K models)</i></li> <li>IP LIVE (SMPTE ST 2110/ SMPTE ST 2022-6-7) <i>*(Available on IP Live Line models)</i></li> </ul>
Resolutions	<ul style="list-style-type: none"> <li>PAL / PAL 16:9 / PAL Plus</li> <li>NTSC/ NTSC 16:9</li> <li>720p 50/60</li> <li>1440x1080p 25/30</li> <li>1440x1080i 50/60</li> <li>1920x1080p 24/25/30</li> <li>1920x1080i 50/60</li> <li>2160p 30/60 <i>*(Available on UHD 4K models)</i></li> </ul>
Time code	<ul style="list-style-type: none"> <li>LTC (SMPTE 12M)</li> <li>VITC (SMPTE RP188)</li> <li>Time of Day</li> <li>From VTR (BMW) - Serial</li> <li>Timecode Gap Detection</li> </ul>

## DESTINATION

Output Wrappers	<ul style="list-style-type: none"> <li>SMPTE MXF OP1a</li> <li>AVID MXF OPAtom</li> <li>QuickTime MOV</li> <li>MP4</li> <li>MPEG</li> <li>FLV</li> </ul>
Production Video Formats (Transcoding is available only on specific models)	<ul style="list-style-type: none"> <li>IMX 30/40/50</li> <li>DVCAM</li> <li>MPEG2 LGOP 18/25/35 Mbps 4:2:0</li> <li>MPEG2 LGOP 50/70 Mbps 4:2:2</li> <li>XAVC Intra 50/100 (HD) and (up to 4K)</li> <li>DVCPRO SD/HD</li> <li>AVC Intra 50/100</li> <li>DNxHD / DNxHR (up to 4K)</li> <li>ProRes 422 (includes SQ/HQ/LT/Proxy)</li> <li>AVCHD (.MTS)</li> <li>JPEG2000 (HD)</li> <li>AVC Ultra (Up to 4K)</li> <li>H.264 (L10 10 Mbps)</li> </ul> <p><b>**Note: Additional License Required for DV and MPEG Codecs activation. Ref: mrdv and Ref: mrmp.</b></p>
Web Video Formats (Transcoding is available only on specific models)	<ul style="list-style-type: none"> <li>H.264 Flash (up to full HD)</li> <li>H.264 High Profiles (up to full HD)</li> <li>H.264 Live Profiles (up to full HD)</li> <li>H.265 / HEVC Profiles (up to 4K)</li> </ul>
Proxy Formats <i>** (available as an orderable optional)</i>	<ul style="list-style-type: none"> <li>MPEG 1 (layer 2) **</li> <li>Avid MPEG2 (SIF @ 2Mbps) **</li> <li>MPEG4 part2 (SIF @ 2Mbps) **</li> <li>DNxHD 36/45 **</li> <li>H.263 (web interplay) **</li> <li>H.264 (web interplay - 800 Kbps) **</li> <li>H.264 Flash Proxy (Multiple Bitrates) **</li> <li>ProRes Proxy **</li> <li>H.265 / HEVC (Multiple Bitrates)**</li> </ul>

## SUPPORTED STORAGE (DESTINATION)

Storage Servers/Types	<ul style="list-style-type: none"> <li>Avid Unity™ MediaNetwork</li> <li>Avid ISIS / Nexis</li> <li>FTP Servers (List on request)</li> <li>Omneon MediaGrid™</li> <li>Generic NAS (SMB 2.0 and SMB 3.0)</li> <li>Facilis Terrablock</li> <li>ScaleLogic</li> <li>DDP - Dynamic Drive Pool</li> <li>Quantum Stornext</li> <li>SAN (client required)</li> <li>Removable e-SATA drives</li> <li>Generic File Shares</li> <li>And many others</li> </ul>
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