

mediaREC Software and Kits



Overview

mediaREC is a software application that can support UHD/QFHD/FHD/HD/SD video gateways, to record four live video channels of 12G-SDI in Avid, OP1a, QT, MP4, XDCAM, XDCAM EX, XAVC, FLV, HLS, MPEG-DASH, WebM, MPEG-TS, Matroska, NDI and IMF formats.

Models

- Software
- Kit 4K AVC
- Kit 4K
- Kit HD

Product Highlights

- Baseband Ingest - multiple simultaneous records
 - Multicamera recording
 - Loop recording
 - Crash recording
 - Schedule recording
 - Batch recording
- Gateway for multiple destinations of any storage, NAS or SAN
- Full-featured local and remote user interface
- Multi-configuration metadata management
- Flexible file naming engine
- Enable edit while ingest
- Burnt-in options: text, timecode, overlays (images and videos) and LUT

Available Options

- Simultaneous proxy generation
- Integration with OTT
- Integration with social media
- Remote preview for media selection, subclipping and merge

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

Technical Specifications

Devices / Connectivity	INPUT	OUTPUT
	Live	File
OnPrem	SD-SDI HD-SDI UHD-SDI * RTMP NDI HLS MPEG-TS	Avid Unity™ MediaNetwork Avid ISIS / Nexis FTP Servers (List on request) NAS / SAS (SMB 2.0 and 3.0) Facilis TerraBlock ScaleLogic DDP - Dynamic Drive Pool Quantum StorNext Generic File Shares And many others
Cloud	Social Media	Social Media Sharing Professional Cloud Storages Consumer Cloud Storages OTT

* The UHD-SDI output is not available for the HD Kit.

Source	
Timecode	LTC (SMPTE 12M)
	VITC (SMPTE RP188)
	Time of Day
	From VTR (BVW) - Serial
	Timecode Gap Detection
Resolutions	PAL / PAL 16:9 / PAL Plus
	NTSC/ NTSC 16:9
	720p 50/60
	1440x1080p 25/30
	1440x1080i 50/60
	1920x1080p 24/25/30
1920x1080i 50/60	
2160p 30/60	

Proxy Formats

Output Formats - PROXY	MODELS			
	Software	HD Kit	4K Kit	4K AVC Kit
H.264 @ 500 Kbps Flash	X	X	X	X
H.264 @ 1 / 1.5 Mbps Flash	X	X	X	X
H.264 720 480p @ 8 / 10 Mbps Flash	X	X	X	X
H.264 720p @ 15 / 20 / 25 Mbps Flash	X	X	X	X
H.264 854 480p @ 8 / 10 Mbps Flash	X	X	X	X
H.264 960 540p @ 3 Mbps Flash	X	X	X	X
H.264 1080p @ 15 / 20 / 25 Mbps Flash	X	X	X	X
H.264 SD @ 4 / 8 / 15 / 20 / 25 Mbps	X	X	X	X
H.264 480p @ 0.5 - 2 Mbps High Profile (Live)	X	X	X	X
H.264 360p @ 0.4 - 1 Mbps High Profile (Live)	X	X	X	X
H.264 240p @ 0.3 - 0.7 Mbps High Profile (Live)	X	X	X	X
ProRes Proxy 1920x1080	X	X	X	X
ProRes Proxy 1280x720	X	X	X	X
ProRes Proxy 960x540	X	X	X	X
ProRes Proxy SD (16:9 Raster)	X	X	X	X
ProRes Proxy SD	X	X	X	X
MPEG-1 (layer 2) @ 1.5 Mbps	X	X	X	X
Avid MPEG-2 (SIF @ 2Mbps)	X	X	X	X
H.263 (Interplay Web)	X	X	X	X
H.264 Interplay Web (800 Kbps and 2 Mbps)	X	X	X	X
Sony Proxy AV (MPEG-4 Part-2) @1.5 Mbps	X	X	X	X

Output Formats

Output Formats - HIRES	MODELS			
	Software	HD Kit	4K Kit	4K AVC Kit
IMX 30/40/50 Mbps	X	X	X	X
MPEG2 LGOP 18/25/35 Mbps 4:2:0	X	X	X	X
MPEG2 LGOP 50/70 Mbps 4:2:2	X	X	X	X
MPEG2 LGOP 422 50 Mbps	X	X	X	X
MPEG2 LGOP 420 1440x1080 35 Mbps	X	X	X	X
MPEG2 LGOP 420 (FULL) 35 Mbps	X	X	X	X
DVCAM 25 Mbps	X	X	X	X
XAVC Intra 50 / 100 Mbps	X	X	X	X
XAVC Intra 300 / 300 VBR / 480 / 480 VBR Mbps	X			X
XAVC LGOP 25 / 35 / 50 Mbps	X	X	X	X
XAVC LGOP 60 / 100 / 140 / 150 / 200 Mbps	X			X
DVCPRO 25/50 Mbps / DVCPRO HD 100 Mbps	X	X	X	X
AVC-Intra 50 / 100 / 200 Mbps	X	X	X	X
AVC Ultra (LGOP 6/12/25/50 Mbps)	X	X	X	X
DNxHD (SQ/HQ/HQX/LB)	X	X	X	X
DNxHR (SQ/HQ/HQX/LB)	X		X	X
H.264 2160p 35 - 68 Mbps High Profile	X		X	X
H.264 1440p 16 - 24 Mbps High Profile	X		X	X
H.264 1080p 8 - 12 Mbps High Profile	X	X	X	X
H.264 720p 5 - 7.5 Mbps High Profile	X	X	X	X
H.264 480p 2.5 - 4 Mbps High Profile	X	X	X	X
H.264 360p 1 - 1.5 Mbps High Profile	X	X	X	X
H.264 2160p 13 - 51 Mbps High Profile (Live)	X		X	X
H.264 1440p 6 - 18 Mbps High Profile (Live)	X		X	X
H.264 1080p 3 - 9 Mbps High Profile (Live)	X	X	X	X
H.264 720p 1.5 - 6 Mbps High Profile (Live)	X	X	X	X
H.264 480p 0.5 - 2.0 Mbps High Profile (Live)	X	X	X	X
H.264 360p 0.4 - 1.0 Mbps High Profile (Live)	X	X	X	X
H.264 240p 0.3 - 0.7 Mbps High Profile (Live)	X	X	X	X
H.264 L10 10 Mbps	X	X	X	X
H.265/HEVC 10 / 25 / 50 / 100 Mbps LGOP	X	X	X	X
H.265/HEVC 4K 25 / 50 Mbps LGOP	X		X	X
H.265/HEVC 8K 25 / 50 / 100 Mbps LGOP	X		X	X
ProRes 422 (SQ/HQ/LT)	X	X	X	X
ProRes 4444	X		X	X
JPEG 2000 (Full HD)	X	X	X	X
JPEG 2000 (4K/8K)	X		X	X
Google® VP6 / VP7 / VP8 / VP9 (Full HD)	X	X	X	X
Google® VP9 (4K/8K)	X		X	X
Uncompressed UYVY 422 / V210 / RGBA	X	X	X	X
AOMedia Video 1 (Full HD)	X	X	X	X
AOMedia Video 1 (4K/8K)	X		X	X
IMF (JPEG 2000 @ Full HD)	X	X	X	X
IMF (JPEG 2000 @ 4K/8K)	X		X	X

Minimum Hardware Requirements

Component	mediaREC Software and Kits			
	Software	HD Kit	4K Kit	4K AVC Kit
CPU	i9-9900 or above 2x Intel Xeon Silver 4214 2.2G or above		2x Intel Xeon Gold 5218 2.3G or above	
RAM	4x 8GB		8X 8GB	
OS Drive	240GB SSD		480GB SSD	
Network	2x 1Gb			
Operating System	Windows 10 (Pro / Enterprise editions) Windows Server 2016 / 2019			
Compatible SDI Board	DeckLink Quad HDMI Recorder			
	DeckLink 8K Pro			
	DeckLink 4K Extreme 12G			
	DeckLink SDI 4K			
	DeckLink Quad 2			
	DeckLink Duo 2			
	DeckLink Duo 2 Mini			
	DeckLink Mini Recorder 4K			
	DeckLink Mini Recorder			
	DeckLink SDI Micro			
Compatible Graphics Card	DeckLink Micro Recorder			
	NVIDIA Quadro P2000 and above			
	NVIDIA Quadro RTX 4000 and above			
	NVIDIA Quadro GP100			
Compatible Encoder Boards	NVIDIA Quadro GV100			
	Matrox M264			

Note: we recommend the MOG peripheral board