



Overview

mediaREC Grand Series is a turnkey appliance family that can support UHD/QFHD/FHD/HD/SD video gateways, to record four live video channels of 12G-SDI in different file formats.

It includes 4 video inputs of 12G-SDI and an XAVC and an AVC-Ultra hardware encoder accelerator (except the Grand E model).

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 RTSP RTP NDI HLS MPEG-TS SRT	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 Professional Cloud Storages Consumer Cloud Storages OTT

Source	
Timecode	LTC (SMPTE 12M)
	VITC (SMPTE RP188)
	Time of Day
	From VTR (BWW) - 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	

Output Formats

Output Formats - HIRES	GRAND MODELS			
	A	E	D	X
IMX 30/40/50 Mbps	X			X
MPEG2 LGOP 18/25/35 Mbps 4:2:0	X			X
MPEG2 LGOP 50/70 Mbps 4:2:2	X			X
MPEG2 LGOP 422 50 Mbps	X			X
MPEG2 LGOP 420 1440x1080 35 Mbps	X			X
MPEG2 LGOP 420 (FULL) 35 Mbps	X			X
DVCAM 25 Mbps	X		X	
XAVC Intra 50 / 100 Mbps	X			X
XAVC Intra 300 / 300 VBR / 480 / 480 VBR Mbps	X			X
XAVC LGOP 25 / 35 / 50 Mbps	X			X
XAVC LGOP 60 / 100 / 140 / 150 / 200 Mbps	X			X
DVCPRO 25/50 Mbps / DVCPRO HD 100 Mbps	X		X	
AVC-Intra 50 / 100 / 200 Mbps	X		X	
AVC-Intra 4K422	X		X	
AVC Ultra (LGOP 6/12/25/50 Mbps)	X		X	
DNxHD (SQ/HQ/HQX/LB)	X	X		
DNxHR (SQ/HQ/HQX/LB)	X	X		
H.264 4320p 150 - 280 Mbps High Profile	X	X		
H.264 4320p 80 - 150 Mbps High Profile	X	X		
H.264 2160p 35 - 68 Mbps High Profile	X	X		
H.264 1440p 16 - 24 Mbps High Profile	X	X		
H.264 1080p 8 - 12 Mbps High Profile	X	X		
H.264 720p 5 - 7.5 Mbps High Profile	X	X		
H.264 480p 2.5 - 4 Mbps High Profile	X	X		
H.264 360p 1 - 1.5 Mbps High Profile	X	X		
H.264 2160p 13 - 51 Mbps High Profile (Live)	X	X		
H.264 1440p 6 - 18 Mbps High Profile (Live)	X	X		
H.264 1080p 3 - 9 Mbps High Profile (Live)	X	X		
H.264 720p 1.5 - 6 Mbps High Profile (Live)	X	X		
H.264 480p 0.5 - 2.0 Mbps High Profile (Live)	X	X		
H.264 360p 0.4 - 1.0 Mbps High Profile (Live)	X	X		
H.264 240p 0.3 - 0.7 Mbps High Profile (Live)	X	X		
H.264 L10 10 Mbps	X	X		
H.265/HEVC 10 / 25 / 50 / 100 Mbps LGOP	X	X		
H.265/HEVC 4K 25 / 50 Mbps LGOP	X	X		
H.265/HEVC 8K 25 / 50 / 100 Mbps LGOP	X	X		
ProRes 422 (SQ/HQ/LT) / 4444	X	X		
JPEG 2000 (Full HD/4K/8K)	X			
Google® VP6 / VP7 / VP8 / VP9 (Full HD)	X			
Uncompressed UYVY 422 / V210 / RGBA	X			
AOMedia Video 1 (Full HD/4K/8K)	X			
IMF (JPEG 2000 @ Full HD/4K/8K)	X			

Proxy Formats

Output Formats - PROXY	GRAND MODELS			
	A	E	D	X
XAVC LGOP 25 / 35 Mbps	X			X
AVC Ultra (LGOP 6/12/25 Mbps)	X			X
DNxHD (SQ/LB)	X	X		
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
H.265/HEVC 10 Mbps LGOP	X	X		
H.265/HEVC 25 Mbps LGOP	X	X		
H.265/HEVC 50 Mbps LGOP	X	X		
ProRes Proxy 1920x1080	X	X		
ProRes Proxy 1280x720	X	X		
ProRes Proxy 960x540	X	X		
ProRes Proxy SD (16:9 Raster)	X	X		
ProRes Proxy SD	X	X		
MPEG-1 (layer 2) @ 1.5 Mbps	X	X	X	X
Avid MPEG-2 (SIF @ 2Mbps)	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

Server Options

This boosted Dell server can support UHD/QFHD/FHD/HD/SD video gateways for media recording operations.

Option for XAVC or AVC-U hardware acceleration.

Features	Specs	GRAND MODELS			
		A	E	D	X
Platform	DeLL R740	X	X	X	X
GPU	2x Nvidia RTX 4000	X	X	X	X
Video	2x Decklink 8K	X	X	X	X
Option AVC	2x Matrox m264 2ch	X		X	X
Connectivity	1x IDRAC Network Interface, 2x 1Gb Eth, 2x 10Gb Eth, 1x Serial Port, 2x RS422, 6x displayPort, 2x VirtualLink, 2x VGA, 8x BNC I/O, 2x Ref In, 1x LTC Input, 2x USB 3.0, 2x USB 2.0, 1x micro USB and 2x audio out	X	X	X	X
Temperature Specs	Storage -40°C to 65°C (-40°F to 149°F), Continuous operation 10°C to 35°C (50°F to 95°F)	X	X	X	X
Power Requirements	Single 750W	X	X	X	X
Dimensions and Weight	2RU, 737.5x482x86.8mm (D,W,H), ~26Kg	X	X	X	X
Delivery Packaging	970x660x310mm (D,W,H), ~32Kg	X	X	X	X
What is Included	1x C13 to C14 power cord and static rails for 2/4-post racks	X	X	X	X