

mediaREC Grand Series



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
 - Scheduled recording
 - Batch recording
- Gateway for multiple destinations of any storage, NAS or SAN
- Full featured remote and local user interface
- Multi-configuration metadata management
- Flexible file naming engine
- Enables edit while ingest
- Option for simultaneous proxy generation
- Optional integration with social media
- Optional integration with OTT
- Burnt-in options: text, timecode, overlays (images and videos) and LUT

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) Omneon MediaGrid™ 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 |

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

| Output Formats - HIRES | GRAND MODELS | | | |
|---|--------------|---|---|---|
| | A | E | X | D |
| 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 | |
| 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 Mbps | X | | | X |
| AVC-Intra 200 Mbps | 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 2160p 35 - 68 Mbps High Profile | X | | | |
| H.264 1440p 16 - 24 Mbps High Profile | X | | | |
| H.264 1080p 8 - 12 Mbps High Profile | X | | | |
| H.264 720p 5 - 7.5 Mbps High Profile | X | | | |
| H.264 480p 2.5 - 4 Mbps High Profile | X | | | |
| H.264 360p 1 - 1.5 Mbps High Profile | X | | | |
| H.264 2160p 13 - 51 Mbps High Profile (Live) | X | | | |
| H.264 1440p 6 - 18 Mbps High Profile (Live) | X | | | |
| H.264 1080p 3 - 9 Mbps High Profile (Live) | X | | | |
| H.264 720p 1.5 - 6 Mbps High Profile (Live) | X | | | |
| H.264 L10 10 Mbps | X | | | |
| H.265/HEVC 10 Mbps LGOP | X | | | |
| H.265/HEVC 25 Mbps LGOP | X | | | |
| H.265/HEVC 50 Mbps LGOP | X | | | |
| H.265/HEVC 100 Mbps LGOP | X | | | |
| H.265/HEVC 4K 25 Mbps LGOP | X | | | |
| H.265/HEVC 4K 50 Mbps LGOP | X | | | |
| H.265/HEVC 8K 25 Mbps LGOP | X | | | |
| H.265/HEVC 8K 50 Mbps LGOP | X | | | |
| H.265/HEVC 8K 100 Mbps LGOP | X | | | |
| ProRes 422 (SQ/HQ/LT) | X | X | | |
| ProRes 4444 | X | X | | |
| JPEG 2000 (Full HD/4K/8K) | X | X | | |
| Google® VP6 / VP7 / VP8 / VP9 (Full HD) | X | X | | |
| Uncompressed UYVY 422 / V210 / RGBA | X | X | | |
| AOMedia Video 1 (Full HD/4K/8K) | X | X | | |
| IMF (JPEG 2000 @ Full HD/4K/8K) | X | X | | |

| Output Formats - PROXY | GRAND MODELS | | | |
|---|--------------|---|---|---|
| | A | E | X | D |
| 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 | | | |
| H.264 720p @ 15 / 20 / 25 Mbps Flash | X | | | |
| H.264 854 480p @ 8 / 10 Mbps Flash | X | | | |
| H.264 960 540p @ 3 Mbps Flash | X | X | X | X |
| H.264 1080p @ 15 / 20 / 25 Mbps Flash | X | | | |
| H.264 SD @ 4 / 8 / 15 / 20 / 25 Mbps | 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 | | |
| 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 | 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 |

Server Options

This boosted Dell server can support QFHD/FHD/HD/SD video gateways for the following media operations: record, ingest, transcode, playback, stream, encode and decode.

Option for XAVC or AVC-U hardware acceleration.

| Features | Specs | GRAND MODELS | | | |
|-----------------------|---|--------------|---|---|---|
| | | A | E | X | D |
| Platform | DeLL R740 | X | X | X | X |
| GPU | Nvidia P2000 | X | X | X | X |
| Video | 1x Decklink 8K | X | X | X | X |
| Option AVC | 2x Matrox m264 2ch | X | | X | X |
| Connectivity | 2x 1Gb Eth, 2x 10Gb Eth, RS232, 2x USB 3.0, 2x frontal USB2.0, 4x DisplayPort, 4x 12G SDI I/O, 1x Ref In, 2x RS422, 1x LTC In | 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, static rails for 2/4-post racks, USB pen drive with system restore and user manuals | X | X | X | X |