



## mDECK Prestige A

### Overview

mDECK Prestige A is the ultimate professional media deck appliance to record, ingest, transcode, and play four FHD (or two UHD) video streams in Avid, OP1a, QT, MP4, XDCAM, XDCAM EX, XAVC, FLV, HLS, MPEG-DASH, WebM, MPEG-TS, Matroska, NDI, and IMF formats. It supports file-based and baseband contents simultaneously and it is able to perform hybrid operations. This makes it a great choice for multiple media operations in IT and video networks.

In addition, it also includes a redundant power supply, 56 TB of storage, 4 video inputs and 4 video outputs of 3G-SDI, or with the option for 2 Quad-Link 3G SDI (12G SDI), using Bluefish444 capture boards.

mDECK Prestige A is the most advanced and flexible video server available in COTS and therefore is very convenient for the most modern hybrid workflows.

### Product Highlights

<p>Internal Asset Management</p> <ul style="list-style-type: none"> <li>• Search</li> <li>• Proxy generation</li> <li>• Rough cut</li> <li>• Metadata management</li> <li>• Logging</li> </ul>	<p>File playback - multiple simultaneous plays</p> <ul style="list-style-type: none"> <li>• Composition play</li> <li>• Loop playback</li> <li>• Instant play</li> <li>• Scheduled play</li> <li>• Remote preview</li> </ul>
<p>Baseband Ingest - multiple simultaneous records</p> <ul style="list-style-type: none"> <li>• Multicamera recording</li> <li>• Loop recording</li> <li>• Crash recording</li> <li>• Scheduled recording</li> <li>• Batch recording</li> </ul>	<p>File Ingest - multiple simultaneous transcodes</p> <ul style="list-style-type: none"> <li>• Card ingest</li> <li>• Growing files ingest</li> <li>• Scheduled ingest</li> <li>• Batch ingest</li> <li>• Partial restore</li> <li>• Clip merge</li> <li>• Rough cut</li> <li>• Clip renaming</li> </ul>
<p>All media operations can simultaneously use the local storage and the network Full featured local and remote user interface (including on a touch screen for quick control)</p>	

### Available Options

- Simultaneous proxy generation
- Integration with social media
- Integration with OTT

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

## Technical Specifications

Devices / Connectivity	INPUT		OUTPUT	
	Live	File	Live	File
OnPrem	SD-SDI 3G-SDI 12G-SDI (Quad-Link 3G-SDI) RTMP NDI UDP	XDCAM Panasonic Ikegami NextoDI CANON JVC GoPro ARRI ALEXA Avid Files DJI (Camera Drones)	SD-SDI 3G-SDI 12G-SDI (Quad-Link 3G-SDI) RTMP NDI UDP	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	Professional Cloud Storages Consumer Cloud Storages	Multiple bitrates for the OTT	Social Media Professional Cloud Storages Consumer Cloud Storages

## Input Formats

Input Formats	Prestige A
ARRI ARRIRAW	X
Blackmagic RAW	X
Digital Cinema Packages (DCP)	X
RED Digital Cinema	X
IMX 30/40/50 Mbps	X
MPEG2 LGOP 18/25/35 Mbps 4:2:0	X
MPEG2 LGOP 50/70 Mbps 4:2:2	X
MPEG2 LGOP 422 50 Mbps	X
MPEG2 LGOP 420 1440x1080 35 Mbps	X
MPEG2 LGOP 420 (FULL) 35 Mbps	X
DVCAM 25 Mbps	X
XAVC Intra 50 / 100 Mbps	X
XAVC Intra 300 / 300 VBR / 480 / 480 VBR Mbps	X
XAVC LGOP 25 / 35 / 50 Mbps	X
XAVC LGOP 60 / 100 / 140 / 150 / 200 Mbps	X
DVCPRO 25/50 Mbps / DVCPRO HD 100 Mbps	X
AVC-Intra 50/100 Mbps	X
AVC-Intra 200 Mbps	X
AVC-Intra 2K422	X
AVC-Intra 4K422	X
AVC Ultra (LGOP 6/12/25/50 Mbps)	X
DNxHD (SQ/HQ/HQX/LB)	X
DNxHR (SQ/HQ/HQX/LB)	X
H.264 4320P 80 - 150 Mbps High Profile	X
H.264 4320P 150 - 280 Mbps High Profile	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 480p 0.5 - 2.0 Mbps High Profile (Live)	X
H.264 360p 0.4 - 1.0 Mbps High Profile (Live)	X
H.264 240p 0.3 - 0.7 Mbps High Profile (Live)	X
H.264 L10 10 Mbps	X
H.264 MOG 1Mbps	X
H.265/HEVC 10 / 25 / 50 / 100 Mbps LGOP	X
H.265/HEVC 4K 25 / 50 Mbps LGOP	X
H.265/HEVC 8K 25 / 50 / 100 Mbps LGOP	X
H.265/HEVC 4:2:2 LGOP	X
H.265/HEVC 4K 4:2:2 LGOP	X
H.265/HEVC 8K 4:2:2 LGOP	X
H.264 HX - High Profile	X
H.265 HX - High Profile	X
NewTek NDI HX	X
ProRes 422 (SQ/HQ/LT)	X
ProRes 4444	X
JPEG 2000 (Full HD)	X
JPEG 2000 (4K / 8K)	X
Google® VP6 / VP7 / VP8 / VP9 (Full HD)	X
Uncompressed UYVY 422 / V210 / RGBA	X
AOMedia Video 1 (Full HD)	X
AOMedia Video 1 (4K / 8K)	X
IMF (JPEG 2000 @ Full HD)	X
IMF (JPEG 2000 @ 4K / 8K)	X

## Output Formats

Output Formats	Prestige A
IMX 30/40/50 Mbps	X
MPEG2 LGOP 18/25/35 Mbps 4:2:0	X
MPEG2 LGOP 50/70 Mbps 4:2:2	X
MPEG2 LGOP 422 50 Mbps	X
MPEG2 LGOP 420 1440x1080 35 Mbps	X
MPEG2 LGOP 420 (FULL) 35 Mbps	X
DVCAM 25 Mbps	X
XAVC Intra 50 / 100 Mbps	X
XAVC Intra 300 / 300 VBR / 480 / 480 VBR Mbps	X
XAVC LGOP 25 / 35 / 50 Mbps	X
XAVC LGOP 60 / 100 / 140 / 150 / 200 Mbps	X
DVCPRO 25/50 Mbps / DVCPRO HD 100 Mbps	X
AVC-Intra 50 / 100 / 200 Mbps	X
AVC-Intra 2K422	X
AVC-Intra 4K422	X
AVC Ultra (LGOP 6/12/25/50 Mbps)	X
DNxHD (SQ/HQ/HQX/LB)	X
DNxHR (SQ/HQ/HQX/LB)	X
H.264 4320p 150 - 280 Mbps High Profile	X
H.264 4320p 80 - 150 Mbps High Profile	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 480p 0.5 - 2.0 Mbps High Profile (Live)	X
H.264 360p 0.4 - 1.0 Mbps High Profile (Live)	X
H.264 240p 0.3 - 0.7 Mbps High Profile (Live)	X
H.264 L10 10 Mbps	X
H.264 WebRTC Baseline	X
H.265/HEVC LGOP 4:2:2	X
H.265/HEVC 10 / 25 / 50 / 100 Mbps LGOP	X
H.265/HEVC 4K 25 / 50 Mbps LGOP	X
H.265/HEVC 8K 25 / 50 / 100 Mbps LGOP	X
H.264 HX - High Profile	X
H.265 HX - High Profile	X
NewTek NDI HX	X
ProRes 422 (SQ/HQ/LT)	X
ProRes 4444	X
JPEG 2000 (Full HD)	X
JPEG 2000 (4K / 8K)	X
Google® VP6 / VP7 / VP8	X
Google® VP9 (Full HD)	X
Google® VP9 (4K / 8K)	X
Uncompressed UYVY 422 / V210 / RGBA	X
AOMedia Video 1 (Full HD)	X
AOMedia Video 1 (4K / 8K)	X
IMF (JPEG 2000 @ Full HD)	X
IMF (JPEG 2000 @ 4K / 8K)	X

## Proxy Formats

Proxy Formats	Prestige A
XAVC LGOP 25 / 35 Mbps	X
AVC Ultra (LGOP 6/12/25 Mbps)	X
H.264 @ 500 Kbps Flash	X
H.264 @ 1 / 1.5 Mbps Flash	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
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
H.264 360p @ 0.4 - 1 Mbps High Profile (Live)	X
H.264 240p @ 0.3 - 0.7 Mbps High Profile (Live)	X
ProRes Proxy 1920x1080	X
ProRes Proxy 1280x720	X
ProRes Proxy 960x540	X
ProRes Proxy SD (16:9 Raster)	X
ProRes Proxy SD	X
MPEG-1 (layer 2) @ 1.5 Mbps	X
Avid MPEG-2 (SIF @ 2Mbps)	X
H.264 MOG 1Mbps	X
H.264 Interplay Web (sd, 800 Kbps, and 2 Mbps)	X
Sony Proxy AV (MPEG-4 Part-2) @1.5 Mbps	X

## OTT Formats

OTT Formats	Prestige A
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 480p 0.5 - 2.0 Mbps High Profile (Live)	X
H.264 360p 0.4 - 1.0 Mbps High Profile (Live)	X
H.264 240p 0.3 - 0.7 Mbps High Profile (Live)	X
H.265/HEVC 10 / 25 / 50 / 100 Mbps LGOP	X
Google® VP9 (Full HD)	X
Google® VP9 (4K)	X

## Server Options

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

It includes redundant power supply and 56 TB of raw local storage configured in RAID 5.

Features	Specs
Platform	Dell R740
GPU	1x Nvidia RTX 4000
Video	1x Bluefish444 Epoch   4K Supernova S+ TURBO
Storage	56 TB (RAW) - 48 TB in RAID 5
Connectivity	1x IDRAC Network Interface, 2x 1Gb Eth, 2x 10Gb Eth, 1x Serial Port, 3x RS422, 3x displayPort, 1x VirtualLink, 1x VGA, 8x BNC I/O, 2x Ref In, 3x LTC input, 2x USB 2.0, 2x USB 3.0, 2x stereo audio out, 4x BNC AES audio in, 4x BNC AES audio out, 2x RCA analogue audio out
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)
Power Requirements	Dual 750W
Dimensions and Weight	2RU, 737.5x482x86.8mm (D,W,H), ~29Kg
Delivery Packaging	970x660x310mm (D,W,H), ~35Kg
What is Included	2x C13 to C14 power cord and static rails for 2/4-post racks