



Overview

mDECK Densu Series is the ultimate compact professional media deck appliance to record, ingest, transcode and play FHD 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.

It includes redundant power supply and can be delivered in one or two node configurations.

Each node includes 5TB of storage (redundant), two video inputs and two video outputs of 3G-SDI that can record or play two 3G-SDI channels or perform two ingest operations.

mDECK Densu Series 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"> • Search • Proxy generation • Rough cut • Metadata management • Logging 	<p>File playback - multiple simultaneous plays</p> <ul style="list-style-type: none"> • Composition play • Loop playback • Instant play • Scheduled play • Remote preview
<p>Baseband Ingest - multiple simultaneous records</p> <ul style="list-style-type: none"> • Multicamera recording • Loop recording • Crash recording • Scheduled recording • Batch recording 	<p>File Ingest - multiple simultaneous transcodes</p> <ul style="list-style-type: none"> • Card ingest • Growing files ingest • Scheduled ingest • Batch ingest • Partial restore • Clip merge • Rough cut • Clip renaming
<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 RTMP NDI UDP	XDCAM Panasonic IKEGAMI NextoDI CANON JVC GoPro ARRI ALEXA Avid Files	SD-SDI 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 Sharing	Professional Cloud Storages Consumer Cloud Storages	Multiple bitrates for the OTT	Social Media Sharing Professional Cloud Storages Consumer Cloud Storages

Input Formats

Input Formats	DENSU MODELS			
	A - A-2	E - E-2	D - D-2	X - X-2
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	X	X
XAVC LGOP 25 / 35 / 50 Mbps	X	X	X	X
XAVC LGOP 60 / 100 / 140 / 150 / 200 Mbps	X	X	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
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 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
ProRes 422 (SQ/HQ/LT)	X	X	X	X
JPEG 2000 (Full HD)	X	X	X	X
Google® VP6 / VP7 / VP8 / VP9 (Full HD)	X	X	X	X
Uncompressed UYVY 422 / V210 / RGBA	X	X	X	X
AOMedia Video 1 (Full HD)	X	X	X	X
IMF (JPEG 2000 @ Full HD)	X	X	X	X

Output Formats

Output Formats - HIRES	DENSU MODELS			
	A - A-2	E - E-2	D - D-2	X - X-2
IMX 30/40/50 Mbps	X			X
MPEG2 GOP 18/25/35 Mbps 4:2:0	X			X
MPEG2 GOP 50/70 Mbps 4:2:2	X			X
MPEG2 GOP 422 50 Mbps	X			X
MPEG2 GOP 420 1440x1080 35 Mbps	X			X
MPEG2 GOP 420 (FULL) 35 Mbps	X			X
DVCAM 25 Mbps	X		X	
XAVC Intra 50 / 100 Mbps	X			X
XAVC GOP 25 / 35 / 50 Mbps	X			X
DVCPRO 25/50 Mbps / DVCPRO HD 100 Mbps	X		X	
AVC-Intra 50 / 100 / 200 Mbps	X		X	
AVC Ultra (LGOP 6/12/25/50 Mbps)	X		X	
DNxHD (SQ/HQ/HQX/LB)	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 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		
ProRes 422 (SQ/HQ/LT)	X	X		
JPEG 2000 (Full HD)	X			
Google® VP6 / VP7 / VP8 / VP9 (Full HD)	X			
Uncompressed UVVY 422 / V210 / RGBA	X			
AOMedia Video 1 (Full HD)	X			
IMF (JPEG 2000 @ Full HD)	X			

Proxy Formats

Output Formats - PROXY	DENSU MODELS			
	A - A-2	E - E-2	D - D-2	X - X-2
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		
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

Compact server to:

- record or playback directly on the local storage;
- be used as a compact media deck with card reader.

Supports: Sony SxS, XQD, Panasonic P2, express P2 and SD Card.

Features	Specs	DENSU MODELS							
		A	A-2	E	E-2	X	X-2	D	D-2
Platform	XPRESS 2U	X	X	X	X	X	X	X	X
Video	1x miniDUO2	X		X		X		X	
	2x miniDUO2		X		X		X		X
Storage	2x 5TB	X		X		X		X	
	4x 5TB		X		X		X		X
Card Slots	1x Sony SxS PRO+ and SxS-1, 1x Sony XQD, 1x Sony SD, 1x Panasonic P2 and express P2	X		X					
	2x Sony SxS PRO+ and SxS-1, 2x Sony XQD, 2x Sony SD					X			
	2x Panasonic P2 and express P2							X	
Connectivity	2x 1Gb Eth, 4x RS422, 1x GPIO out, 1x GPIO in, 1x displayPort, 1x HDMI, 4x HD-BNC I/O, 1x Ref In, 1x LTC Input, 1x I/O breakout connector, 2x USB 2.0, 4x USB 3.0 and 1x audio out	X		X		X		X	
	4x 1Gb Eth, 8x RS422, 2x GPIO out, 2x GPIO in, 2x displayPort, 2x HDMI, 8x HD-BNC I/O, 2x Ref In, 2x LTC Input, 2x I/O breakout connector, 4x USB 2.0, 8x USB 3.0 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 32°C (50°F to 89.6°F)	X	X	X	X	X	X	X	X
Power Requirements	Dual 300W	X	X	X	X	X	X	X	X
Dimensions and Weight	2RU, 245x484x89mm (D,W,H); ~14Kg	X	X	X	X	X	X	X	X
Delivery Packaging	580x380x250mm (D,W,H), ~15Kg	X	X	X	X	X	X	X	X
What is Included	2x C13 to C14 power cord, USB pen drive with system restore and user manuals	X	X	X	X	X	X	X	X