



## Overview

mxfsPEEDRAIL mediaCARD is a software application that automates and improves the camera card ingest and transcode operations.

It enables offline editing workflows, ingesting the proxies to online storage and high-resolution to the nearline storage.

mxfsPEEDRAIL mediaCARD Densu can be delivered in one or two node configurations. Each node performs two simultaneous card ingest operations.

## Models

- Software
- Densu A: a compact cost-effective appliance with Panasonic and Sony built-in card readers
- Densu D: a compact cost-effective appliance with Panasonic built-in card readers
- Densu X: a compact cost-effective appliance with Sony built-in card readers

## Product Highlights

- Operation modes: manual, scheduled and automatic
- Ingest and/or Transcode contents according to the destination format
- Support for spanned clips (Sony XDCAM EX, Panasonic P2, Panasonic GH5, GoPro and Canon)
- Flexible file renaming engine
- Enable edit while ingest
- Metadata preservation and enhancement
- Burnt-in options: text, timecode, overlays (images and videos) and LUT

## Available Options

- Transcode activation
- 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		Specs	MODELS			
			Software	DENSU		
				A - A-2	D - D-2	X - X-2
OnPrem	File Input	Built in card reader for: P2 and AU		X	X	
		Built in card reader for: SxS, XQD and SD		X		X
		XDCAM	X	X		X
		Panasonic	X	X	X	
		IKEGAMI	X	X		
		NextoDI	X	X		
		CANON	X	X		
		JVC	X	X		
		GoPro	X	X		
		ARRI ALEXA	X	X		
	DJI (Camera Drones)	X	X	X	X	
	File Output	Avid Unity™ MediaNetwork	X	X	X	X
		Avid ISIS / Nexis	X	X	X	X
		FTP Servers (List on request)	X	X	X	X
		NAS / SAS (SMB 2.0 and 3.0)	X	X	X	X
Facilis TerraBlock		X	X	X	X	
ScaleLogic		X	X	X	X	
DDP - Dynamic Drive Pool		X	X	X	X	
Quantum StorNext		X	X	X	X	
Generic File Shares		X	X	X	X	
And many others		X	X	X	X	
Cloud	Social Media Sharing	X	X	X	X	
	Professional Cloud Storages	X	X	X	X	
	Consumer Cloud Storages	X	X	X	X	
	OTT	X	X	X	X	

## Proxy Formats

Output Formats - PROXY	Software	MODELS		
		DENSU		
		A - A-2	D - D-2	X - X-2
XAVC LGOP 25 / 35 Mbps	X			
AVC Ultra (LGOP 6/12/25 Mbps)	X			
DNxHD (SQ/LB)	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			
H.265/HEVC 25 Mbps LGOP	X			
H.265/HEVC 50 Mbps LGOP	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		

## Output Formats

Output Formats - HIRES	MODELS			
	Software	DENSU		
		A - A-2	D - D-2	X - X-2
IMX 30/40/50 Mbps	X	X		X
MPEG2 LGOP 18/25/35 Mbps 4:2:0	X	X		X
MPEG2 LGOP 50/70 Mbps 4:2:2	X	X		X
MPEG2 LGOP 422 50 Mbps	X	X		X
MPEG2 LGOP 420 1440x1080 35 Mbps	X	X		X
MPEG2 LGOP 420 (FULL) 35 Mbps	X	X		X
DVCAM 25 Mbps	X	X	X	
XAVC Intra 50 / 100 Mbps	X	X		X
XAVC Intra 300 / 300 VBR / 480 / 480 VBR Mbps	X			
XAVC LGOP 25 / 35 / 50 Mbps	X	X		X
XAVC LGOP 60 / 100 / 140 / 150 / 200 Mbps	X			
DVCPRO 25/50 Mbps / DVCPRO HD 100 Mbps	X	X	X	
AVC-Intra 50/100 Mbps	X	X	X	
AVC-Intra 200 Mbps	X	X	X	
AVC-Intra 4K422	X			
AVC Ultra (LGOP 6/12/25/50 Mbps)	X	X	X	
DNxHD (SQ/HQ/HQX/LB)	X	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	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			
H.264 1440p 6 - 18 Mbps High Profile (Live)	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			
H.265/HEVC 8K 25 / 50 / 100 Mbps LGOP	X			
ProRes 422 (SQ/HQ/LT)	X	X		
ProRes 4444	X			
JPEG 2000 (Full HD)	X	X		
JPEG 2000 (4K/8K)	X			
Google® VP6 / VP7 / VP8 / VP9 (Full HD)	X	X		
Google® VP9 (4K/8K)	X			
Uncompressed UYVY 422 / V210 / RGBA	X	X		
AOMedia Video 1 (Full HD)	X	X		
AOMedia Video 1 (4K/8K)	X			
IMF (JPEG 2000 @ Full HD)	X	X		
IMF (JPEG 2000 @ 4K/8K)	X			

## Minimum Hardware Requirements

mxfsPEEDRAIL mediaCARD	
CPU	i7-8700 or above
RAM	4x 8GB
OS Drive	240GB SSD
Network	2x 1Gb
Operating System	Windows 10 (Pro / Enterprise editions) Windows Server 2016 / 2019

## Server Options

Compact server for camera card ingest (Sony and Panasonic) and for compact media deck with card reader.

Supports: Sony SxS, XQD, Panasonic P2, expressP2 and SD Card

Features	Specs	DENSU MODELS					
		A	A-2	D	D-2	X	X-2
Platform	Xpress 2U	X	X	X	X	X	X
Card Reader	Panasonic	X	X	X	X		
	Sony	X	X			X	X
Card Slots	2xPanasonic P2 and express P2		X	X			
	4x Panasonic P2 and express P2				X		
	2x Sony SxS Pro+ and SxS-1, 2x Sony XQD and 2x Sony SD		X			X	
	4x Sony SxS Pro+ and SxS-1, 4x Sony XQD and 4x Sony SD						X
	1x Sony SxS Pro+ and SxS-1, 1x Sony XQD and 1x Sony SD, 1x Panasonic P2 and express P2	X					
Connectivity	2x 1Gb Eth, 1x displayPort, 1x HDMI, 6x USB 2.0 and 1x audio out	X		X		X	
	4x 1Gb Eth, 2x displayPort, 2x HDMI, 12x USB 2.0 and 2x audio out		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
Power Requirements	Dual 300W	X	X	X	X	X	X
Dimensions and Weight	2RU, 245x484x89mm (D,W,H), ~13Kg	X	X	X	X	X	X
Delivery Packaging	580x380x250mm (D,W,H), ~14Kg	X	X	X	X	X	X
What is Included	2x C13 to C14 power cord	X	X	X	X	X	X