

Integrated Media Server

NP-90MS02-4K

The NP-90MS02-4K is the next generation offering in NEC's Integrated Media Server line of products. It continues the trend of providing on-board RAID storage, server control, and DCI compliant media block in a compact form enabling it to fit in a Series 2 DLP projector. User control is via web-based UI allowing access from anywhere on the theater network, with full compatibility with Dolby's TMS3 and any third party TMS that supports Dolby products.



Features

- Low cost of ownership (Maintenance and power consumption)
- Up to 500Mb/s JPEG2000 playback
- Web based UI allows easy access from anywhere on the theater network
- Configuration console available on Mini Displayport output (No UI)
- Single Board Design
- 2TB of internal storage with RAID 5 protection -Convenient access on front panel
- Drives are hot-swappable
- External NAS support for additional storage (Contact customer support for list of supported NAS models)
- 4K Alternative content input up to 30 fps (HDMI) *
- Dolby Forensic Watermark
- Dolby Atmos audio support *
- Auro 3D audio support *
- 3D Live (RealD Live)
- 3D Ghostbusting (RealD)
- Support for Access Products (Fidelio,Captiview, SMPTE 430-10 output)
- Ingest through eSATA, USB 3, or Ethernet (up to 500 Mbits/Second)
- 4x GPI
- 6x GPO
- Linear Time Code (LTC) out; Configurable at installation through GPO 5
- Live Event Ethernet Stream Support **
- Internal Scaling and Deinterlacing
- MPEG2, H.264, VC1 decoding
- Dual Projector Support
- DCI Compliant
- Dolby P'Ngest
- Play while Ingest

I/Os	3 x Gigabit Ethernet (1000Base-T/RJ-45)
	1 x eSATA 3Gbps
	1 x USB 2
	2 x USB 3
	1 x HDMI, up to 4k 30fps (HDMI)
	2 x 3GSDI bidirectional (input and output)
	8 - AES audio pairs (2x RJ-45)
	4 x GPI (1x RJ-45)
	6 x GPO (1x RJ-45)
	LTC Out, Configurable via internal jumper - Output on GPO 5 line
	3 x hot-swappable removable 2.5" HDDs
Mini Displayport console out (no UI)	
DCI Compliant DCP PLAYBACK	JPEG2000
	2k up to 120 fps
	4K up to 30 fps
	Bit rates up to 500 Mb/s
	12 Bits 4:4:4 XYZ' for all formats
	Support SMPTE DCP, MPEG-2 and MXF Interop formats
	Subtitle Engine
DCI Compliant	
MPEG2/H264/VC1	720p 60, 1080i 60 and 1080p 60
	Up to 50 Mbps
	4:2:0 8 bit color encoding
VIDEO PROCESSING FEATURES	Color Space Conversion - Support YCbCr601, YCbCr709, REC 709, XYZ', YCx Cz
	Deinterlacing
	Scaler up to 4K
CONTROL	Web Based User Interface
	Mini Display Port Console Out
	Dolby TMS
	Third Party TMS and NOC systems
	API Documentation available on request
SECURITY	DCI compliant Forensic Watermarking for audio and video
	FIPS 140-2 Level 3 Security certified
AUDIO	16 channels, AES-EBU, 24bits up to 96KHz
POWER CONSUMPTION	<70W
STORAGE	Internal - 3x 2.5" 1 TB Hard Drives (RAID 5 Configuration)
	External NAS. Dolby Qualified NAS Models: (TBA)

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