



The Digital Cinema Advantage

DigiCine is the first software based fully integrated Digital Cinema system playback solution, providing value today and in the future. Having been designed with the intentions of being computer server vendor agnostic DigiCine takes advantage of all the capabilities of commodity hardware components on a modular level. As the need for hardware components change or technical capabilities improve, configurations can be modularly adapted utilizing a consistent and proven overall infrastructure.

The DigiCine approach continually meets operational and industry requirements through software updates. Therefore, your system will always take advantage of its full potential. Changes in server features such as subtitling, audio capabilities and DCP formats, etc., will be continually kept current.

With a choice of server vendors and build options DigiCine leverages the commodity nature of hardware allowing for a solution tailored to the exhibitor's exact needs, be it a low cost solution, high performance and resilience solution or any combination of capabilities, whilst remaining compliant to distributor requirements as outlined by DCI.

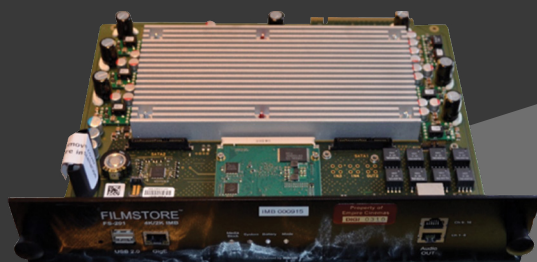


DigiCine Digital Cinema System

The DigiCine/IMB solution includes all software features of the digital cinema package (DCP) platform. The hardware features conform to the specific requirements of the exhibition environment and comply with DCI requirements. Solution features include:

- + 2K and 4K resolution, software upgradable from 2K to 4K
- + FPGA-based JPEG2000 decoding to deliver stunning 2K and 4K images
- + Scalable for standalone through multi-screen complexes
- + Can be managed and operated locally and remotely
- + Gigabit Ethernet connections; IMB has 1x GigE, standard server has 4X GigE +1 IPMI
- + Stereoscopic 3D playback from Master Image, Xpand and REAL-D
- + Supports multichannel audio-includes 16 channel of audio in all formats
- + Forensic watermarking support with Civolution NexGuard™
- + Automation support through Ethernet and GPIO
- + DigiCine is a Hollywood Software solution and as such it integrated with the TMS
- + Optional HFR referenced in DCI HFR RP Table 1 proposed frame rates
- + Continuous support for SMPTE DCP
- + Can be operated in standalone mode but has been integrated with the Hollywood Software TCC Theatre Management System and is now part of their overall exhibitor suite.

For a Series 2 projector the solution is shipped with an IMB for direct insertion into the projector.
For a Series 1 projector the solution is shipped with our DCinema Sleeve.



DCinema Sleeve for use with Series 1 Projectors

The DigiCine DCinema Sleeve is a managed enclosure that houses a Series 2 capable IMB for use with a Series 1 projector. The Cinema Sleeve allows the IMB to be seated in an external enclosure and communicate with the Series 1 projector using DCI compliant methodology. DigiCine Series 1 utilizes the full functionality of the system.

DigiCine Series 1 with DCinema Sleeve is only limited by the inherent capabilities of the projector. This means that non-image Digital Cinema upgrades in audio, subtitling, metadata, DCP support, and other operations etc. are fully supported.

This means that the Series 1 environment will now have:

- + Complete support for SMPTE DCP, including meta data functionality
- + Subtitle rendering in the server, including 3D subtitles
- + Closed caption support
- + Audio channel mapping
- + Support multi-channel audio- includes 16 channel of audio in all formats

When you wish to upgrade the projector from Series 1 to 2, you simply remove the IMB from the sleeve and install it into the Series 2 projector using the upgrade kit which includes the projector faceplate assembly and a firmware upgrade. You are now operating at full Series 2 capability. There is no need to buy a new media solution thus protecting your investment.

DigiCine provides the most flexible, modular, scalable and cost effective upgrade path to integrate in your operation.

Standard DigiCine Configuration: Technical Specifications

While there is a standard hardware configuration proposed, one of the key features of DigiCine is the ability to configure hardware as required. DigiCine may be configured for low storage similar to an IMS that is limited to 2-3TB or you may create a configuration that is 10TB or more. DigiCine allows you to configure the appropriate system to meet your needs.

Hardware

8-core low-power Intel CPU
4GB RAM
Hardware RAID controller, configured for RAID 1 (mirrored)
2x 512GB drives, 2x 4TB drives, (media capacity 4TB, OS/Database 512GB)
4x 1GB Ethernet ports
CRU Bay
Full Remote Platform Management and KVM via IPMI (5th dedicated Ethernet port)
Power Requirements for Server:
120VAC/240VAC, 65 Watts

Software

Windows 10 Operating System
SNMP for management integration
DigiCine3.x SMS

Specifications mentioned herein are subject to change without notice due to continuous product development.

DigiCine Technical Specifications

Image Formats	+ DCI JP2000
Image Resolutions	+ 4096x2160 @24 fps, 2048x1080 @48 fps & 24 fps 3D + Optional 2048x1080 @48 & 60 fps HFR 3D + Optional 2048x1080 2D @ 60, 96, 120 fps.
Subtitles	+ Internal rendering in IMB
3D Playback	+ Master Image, XPand and REAL-D
I/O Ports	+ Server 4x Gigabit Ethernet, RJ-45 + IMB: Gigabit Ethernet Port, RJ-45 (second port optional) + USB 2.0 Ports x 2 + 8 x 2-ch AES3 Digital Audio Outputs, RJ-45 x 2
Forensic Watermarking	+ Civolution NexGuard™

DigiCine has been integrated with the Hollywood Software TCC Theatre Management System and is now part of their overall exhibitor suite. This integration enhances operational management capabilities.

DigiCine DCinema Sleeve: Technical Specifications

Mechanical: 2U rack-mount enclosure measuring 3.5"H x 19"W x 19"D (8.89cm x 48.26cm x 48.26cm). The enclosure is designed with side-to-side cooling for use in cinema rack installations.

Electrical: 120/240 VAC universal supply, 60 Watts.

Operating Conditions: 0°C/32°F to 40°C/104°F, Relative Humidity 20% to 80% (non-condensing)

Enclosure Features: (independent of the installed IMB)

- + Dynamic cooling for very low noise
- + Remote Control and Monitoring via IPMI and SNMP. Optional SSH and HTTP support.
- + Monitoring functions include temperatures, fan speeds, and internal voltages.
- + Remote control functions include power control and boot.
- + Support for remote firmware upgrades.



For more information, please contact:

Digital Cinema Systems Corporation • 13428 Maxella Ave Suite #143 • Marina Del Rey, CA 90292,
USA Phone: +1 (424) 477-3444 • Website: www.digicine.com • Sales: sales@digicine.com
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