SX-2000AR/TR

Digital Cinema Server with New Integrated Media Block (IMB)

SX-2000AR/TR Digital Cinema Server

New Integrated Media Block (IMB)

Product Features

1

High Frame Rate
The SX-2000AR/TR supports high frame rate content in 2D and 3D (48fps & 60fps per eye).

2

All Image Resolution
The SX-2000AR/TR supports SD, HD, 2K and 4K (optional) resolution.

3

Comprehensive Support for Alternative Content
The SX-2000AR/TR supports HDMI inputs, 3G-SDI input and network live streaming (optional). It also supports image scaling from HD to 4K (optional).

4

Live 3D Support (Optional)
The SX-2000AR/TR comes integrated with 3D Demuxing (side-by-side) which makes receiving high-quality 3D broadcasts possible. It also provides a built-in integrated 3D decoder to seamlessly support 3D Live broadcast without requiring additional decoder.

5

Supports Barco, Christie and NEC Series 2 Projectors
The SX-2000AR/TR seamlessly integrates with all Series 2 projectors including Barco, Christie and NEC to ensure highly reliable and secure content delivery.

6

Up to 4TB of Redundant Hot Swappable Storage (Optional)
The SX-2000AR/TR comes with 3 hot swappable data drives that can easily be attached or detached. The SX-2000AR/TR is able to remain operational in the event of a single drive failure, thereby minimizing downtime.

7

Instant Playback from CRU Drive Sleds*
SX-2000AR allows for instant playback from the CRU drive sleds without requiring content ingest, which reduces time to screening in emergency situations.

SX-2000AR/TR Digital Cinema Server with New IMB

The SX-2000AR/TR Digital Cinema Server with New IMB is available in various configurations to suit the differing needs of cinema owners. Cinemas that alreadty utilize a theatre management system (TMS) will find the SX-2000TR a cost efficient choice. Meanwhile, cinemas not using TMS can benefit from the increased ingest options available in the SX-2000AR.

Model No.	SX-2000AR Advanced Model	SX-2000TR Advanced Model for TMS Integration
DVD-ROM Drive	•	
CRU Sled	•	
Redundant Power Supply	•	•
GPI/O (Optional)	•	•
Hot-swappable HDD x 3 units	•	•

SX-2000AR/TR
Digital Cinema Server with New IMB
Technical Specifications

Physical

Dimensions (Server)	482(W) x 616(D) x 177(H) mm 4RU
Weight (Server)	25kg (55lbs)
Dimensions (IMB)	320(W) x 240(D) x 63.7(H) mm
Weight (IMB)	1.5kg (3.3lbs)

Environmental

Operating temperature	5˚C to 40˚C (41˚F to 104˚F)
Operating humidity	20% to 90%, non-condensing
Operating altitude	10,000 ft. above sea level

Power

Power requirement	100 to 240V, 60 to 50Hz, 6 to 3A
Max power consumption	320W
Redundant power supplies	Redundant internal hot swappable x 2
Uninterrupted power supply (UPS) with surge protection (optional)	3-way, meets IEEE STD 587 Cat. A 6KV test

Video Specifications

JPEG 2000	4K – 24 (2D) (optional) 2K – 24, 48, 60 (2D) 2K – 24, 48, 60 (3D)
MPEG 2/MPEG 4 (optional)	SD/HD
Packaging	SMPTE Digital Cinema Package (DCP), Interop DCP

Audio Output

Digital uncompressed audio	16/24-bit AES/EBU, 16 channels, 48/96 KHz 2 x RJ45

System Interfaces

Ethernet	3 x RJ-45 (1000 BaseT)
eSATA	x 1 (external storage)
USB 2.0	2 x USB A-Type Female
LTC	In & Out (2 x BNC)
REF	Passive loop output/ Video sync input (2 x BNC)
HDMI	x 1 (alternative content input)
3G-SDI	X 2 (alternative content input)
8-port GPI/Os (optional)	4 x RJ45 (8 GPIs and GPOs)
RS232	Debug port
DVD-ROM drive*	Read speed 8x
CRU sled*	CRU-Dataport

Storage	Redundant hot swappable 2000GB (Upgradable to 4000GB)
Security	AES 128-bit encrypted data storage Civolution (NexGuard®) forensic watermarking
Subtitles	Subtitle overlay Projector Cinecanvas support

User Interface

External Panel Control (optional)	Integrated control of digital cinema servers and DLP Cinema® Projectors
Windows® PC network control	Remote access to the screen management system (SMS) and server user interface
Language Versions	English/ Simplified Chinese/ Traditional Chinese/ Korean/ Japanese/ Spanish/ French/ Brazilian Portuguese/ Russian

Third-party Integration Options

TMS	GDC, Third-party*
3D system	RealD, Dolby 3D, MasterImage, active systems
4D system	D-Box Motion Code™, 4D plex
Closed Captioning Device	USL WGBH (Rear Window Captioning Device)

Integrated 3D Live Specifications* (Optional)

Video	MPEG 2/ MPEG 4
Audio	Dolby Digital (AC-3)* / MPEG 2 audio
3D Demuxing	Side by side
Stream Format	UDP Multicast of MPEG 2 Transport Stream

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* Only available in SX-2000AR
* Please check with your TMS provider
* Supports Dolby Digital (AC-3) in pass-through mode only, which requires external AC-3 decoder or sound processor for integration
* Feature may not be available upon initial release