Dolby® Integrated Media Server IMS3000

A robust platform for today, the right investment for tomorrow.

Built on a proven platform, the IMS3000 provides cost-effective and reliable performance backed by Dolby's industry-leading technology and support. The IMS3000 has a robust feature set, flexible storage options, and an exclusive scalable design built on a framework ready for tomorrow.

The IMS3000 can be paired with any external cinema processor, such as the Dolby CP950 or CP950A, providing exceptional experiences up to and including Dolby Atmos. Or, the IMS3000 itself can be field-enabled to offer standalone internal audio processing of 5.1/7.1 or the full power of Dolby Atmos.

The IMS3000 is now offered with or without SDI inputs. The IMS3000-NB with SDI inputs supports Dual Projector Chase mode, whereas the IMS3000-DS without SDI connections supports single projector installations only.

A specific IMS3000 model (IMS3-L-NB) is now offered for cinema LED wall applications (consult the price list for details). The IMS3000 remains the platform of choice for current and next-generation server developments.

Dolby integrated media server IMS3000 features

- Low cost of ownership (maintenance, power consumption, simplified system design)
- Playback for SMPTE and INTEROP digital cinema packages (DCP) at bit rates up to 500 Mbps
- Web-based UI allows easy access from anywhere on the theatre network
- Access the UI via Bluetooth from a tablet. Get the app "Cinema Server Control" on the Google Play or Apple Store. (requires purchase of separate USB Bluetooth adapter that is plugged into IMS3000).
- Single-board design
- Hot-swappable hard drives
- Scan network for content to ingest
- Drag-and drop scheduler
- Drag-and-drop playlist builder
- Support for accessibility products including Dolby Accessibility Solution or other SMPTE ST430-10 devices
- Dolby and RealD® ghost busting (user selectable)
- Ingest through eSATA, USB 3.0, or Ethernet
- 6 × GPO
- Linear timecode (LTC) output
- Live-event Ethernet stream support
- Internal scaling and de-interlacing up to 4K
- JPEG2000, MPEG-2, H.264 decoding
- 4K 60 fps (on supported projectors and LED displays)
- DCI-compliant
- Play from Shipping Drive
- Chase mode for dual projector support (requires model IMS3000-NB)
- HDMI 2.0 4K 60 fps with HDCP 2.2
- HDMI Rec.2020 input to P3 color gamut conversion
- HDMI 4K downscaling to 2K
- Dolby Pngest
- Play while ingest
- Offline Ingest - Ingest while the IMS3000 is powered down**

*License purchase required
** This feature is only available with the NAS as main storage option (NAS-Q1)

Dolby Integrated Media Server IMS3000

I/Os

- 3 × GB Ethernet (1000Base-T/RJ-45)
- 1 × eSATA 3 Gbps
- 1 × USB 2.0
- 2 × USB 3.0
- Dual 3G SDI Inputs (requires model IMS3000-NB)
- 1 × HDMI® 2.0 (Up to 4K 60 fps)
- 8 × AES-3 audio pairs (2 × RJ-45)
- 2 x AES-3 Auxiliary Outputs
- 2 x AES-3 Auxiliary Inputs
- 1 x Dolby Atmos Connect output with loopback (AES67 Protocol Only)
- 4 × GPI (1 × RJ-45)
- 6 × GPO (1 × RJ-45)
- LTC output
- 3 × hot-swappable removable 2.5" HDDs
- Mini DisplayPort console out (no UI)
- Dolby Remote Fader Port for use with optional CAT868

DCP playback

- 2K up to 120 fps
- 4K up to 30 fps (60 fps on on supported projectors and LED displays)
- Bit rates up to 500 Mbps
- 12-bit 4:4:4 XYZ' for all formats
- Support of SMPTE and INTEROP formats
- Internal subtitle engine, or integrate with a projector for CineCanvas subtitle rendering
- DCI-compliant
- JPEG2000, MPEG2 and H.264 Playback

Mpeg-2/H.264

- 720p 60, 1080i 60, and 1080p 60
- Bit rates up to 50 Mbps
- 4:2:0 8-bit color

Video processing features

- Color-space conversion—supports YCbCr601, YCbCr709, REC 709, XYZ', YCxCz
- Deinterlacing
- Scaler up to 4K

Audio processing features (requires enablements)

- Dolby Surround 7.1 and 5.1 playback
- Dolby Atmos rendering up to 64 speakers with Full Atmos enablement
- Dolby Digital Plus
- Dolby Digital (AC-3)
- TrueHD Audio – Support Consumer Atmos on HDMI Input
- 44.1 kHz, 48 kHz 96 kHz support at 16, 20 and 24 bit
- AES67
- Alternative Content Surround Processing
- High resolution multi-rate EQ
- Internal crossover supports up to 4-way loudspeakers

Control

- Web-based user interface
- Bluetooth support for control from a tablet (Android and iOS)**
- Mini DisplayPort console out (debug console only)
- Third-party TMS and NOC systems
- API documentation available on request

Security

- DCI-compliant forensic watermarking
- FIPS 140-2 (Level 3 security certified)

Power consumption

- <70 W

Storage

- Internal—3 × 2.5" 1 TB hard disk drives (RAID 5 Configuration) Approximately 1.8 TB of user storage
- Internal—3 x 2.5" 2TB Solid State Drives (RAID 5 Configuration) Approximately 3.6 TB of user storage
- IMS3000 + Main Storage NAS - 4 x 3.5" 4TB hard disk drives (RAID 5 configuration). Approximately 10.5 TB of user storage No internal drives are used in the IMS3000 and the NAS can ingest when the IMS3000 is off.
- IMS3000 + Additional Storage NAS - (This option uses the IMS3000 internal storage and an external storage NAS but does not support offline ingest to the NAS).***
- Shared NAS in Chase Mode (Dual Projection - requires model IMS3000-NB - this option has two IMS3000 servers in Chase mode utilizing one an external storage NAS with approximately 10.5TB of user storage)

**Contact support for list of qualified bluetooth dongle

*** Contact customer support for list of supported NAS devices and models

The English version of this document is the only legally binding version. Translated versions are not legally binding and are for convenience only.

Specifications are subject to change without notice.

This documentation applies to Model CID1002

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