SKYLARK TECHNOLOGY INC.
ABOUT THE COMPANY
OUR BENEFITS

COMPANY PROFILE

SkyLark Technology Inc. is a Canadian developer of software and IT solutions for the media industry. The company was founded in Toronto in 2009 by programmers and engineers with years of successful experience in the TV business.

SkyLark Technology's team consists of professionals with extensive experience in developing and installing IT systems for TV companies, playout centers, and cloud-based projects. SkyLark Technology is headquartered in Toronto.

The company's solutions are based on current trends and technologies in IT and media environments to create systems of any complexity: from regional advertising insertion to multi-channel playout with the highest degree of reliability.

The company offers its customers various configurations of production, broadcasting systems in different price ranges.

The core functionality of supplied systems is based on **SL NEO Software Media Platform**, developed by SkyLark Technology. This modular client-server software enables building workflow according to customer requirements:

▶ Full-cycle automated Playout,
▶ Archiving, content management,
▶ Multichannel Recording,
▶ On Air Graphics, Channel Branding,
▶ Workflows for Television News,
▶ Live Sports Producrion,
▶ Processing: subtitling, encoding, multiplexing, streaming, file transcoding and much more.

COMPANY ACTIVITIES

▶ Development of SL NEO Media Platform Software,
▶ Assembly of SL NEO Media Servers & Processors,
▶ Marketing and sales of equipment and software,
▶ Design, installation of turnkey television IT systems,
▶ Setup and commissioning, staff training,
▶ Warranty and post-warranty service,
▶ Technical support of users.

During 2009-2022 Skylark Technology Inc. has completed more than 200 projects both by its own specialists and in collaboration with leading system integrators.

Each installation is an integrated solution of varying complexity, architecture and functionality.

The accumulated experience of the company's specialists and the use of our own developments allow us to create reliable high-tech solutions that best meet the needs of our customers.

Currently there are over 1500 SkyLark SL NEO servers and processors operating worldwide in a multitude of configurations for terrestrial, cable, satellite broadcasting include central, regional, corporate stations, studio, & news production, content archiving and management, compliance recording and monitoring.

SkyLark SL NEO products, solutions, servers and software are successfully operating in the USA, Israel, South Korea, Malaysia, Australia, the Middle East, Africa and 28 EU member states, BRICS countries.

PRODUCTS: SOFTWARE

The SkyLark concept is based on the interaction of software modules with different functionality, working together in realtime on one or more hardware platforms and performing certain sequences of operations with streaming and file content according to schedules and rules.

To organize the workflow for media production or playout, you need to select the number and types of software modules by functionality and define the interconnections between them.

A wide range of types of software modules supporting all modern technologies, standards and protocols, with flexible and detailed settings, together with client applications and Web-clients, constitute a single universal system for organizing and supporting media workflows: The SL NEO Software Media Platform, developed by SkyLark Technology Inc.

SL NEO Media Platform Subject Areas

- Multiformat Capture, Ingest & Playout
- On Air Graphics & Channel Branding
- Open and Closed Captioning
- Live Production: News, Studio, Sports
- Live Censorship
- Media Asset Management
- File & Signal Processing
- Multichannel Monitoring
- IP and ASI Encoding
- MPEG TS Processing
- Web Streaming

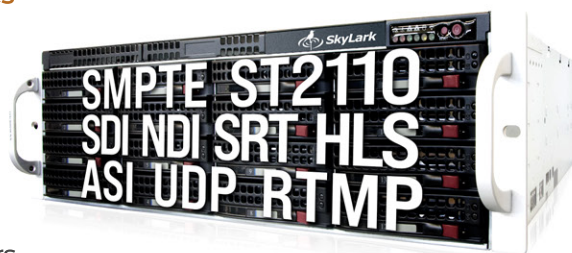**SL NEO Software is integrated with products from the industry's leading brands:**

Imagine Communications, Evertz, Nevion, Grass Valley, Ross, Matrox, DekTec, BlackMagic, JL Cooper and many others, which is critical to ensure interoperability of switching equipment, I/O platforms, and file content migration in a single technology environment.

PRODUCTS: MEDIA SERVERS AND PROCESSORS

SkyLark SL NEO Media Servers solve many tasks and act as the core of the technological IT-infrastructure for TV Companies of any size - from National Broadcast Centers to Regional Station.

SL NEO Media Servers and Processors
UHD/HD/SD Configurations in 9 Base Series

- SL NEO 1000. Multichannel Ingest Servers
- SL NEO 2000. Multformat Playout Servers
- SL NEO 3000. Channel in a Box
- SL NEO 4000. Time Shift & Delay Servers
- SL NEO 5000. On Air Graphics Servers
- SL NEO 6000. Compliance Recorders
- SL NEO 7000. Instant Replay & LSM Servers
- SL NEO 8000. MultiScreen Processors
- SL NEO 9000. IP Encoders & Transcoders

SL NEO Client Applications and web - Clients

Recording and Playout channels control (manual, or automatic by schediles);
Import, Creating and Editing recording and playback sheets;
Creation and Editing of graphic compositions, design templates;
File content management: import and export, transcoding, loudness normalization, search, viewing as proxy or full res, trimming, marking of materials by key points, segmentation;
On-the-fly networked nonlinear editing by proxy;
Multiscreen monitoring of input and output signals on network workstations;
Remote control of SDI Routers, MCS and VTR.

OUR BENEFITS

TECHNOLOGY

Wide range of applications: from small corporate, educational systems, theaters, stadiums, museums, to cloud playout centers and national broadcasting channels.

Full technological cycle is implemented in accordance with initial requirements. We will offer the optimal set of equipment and software.

All necessary components for production and broadcasting workflows: Capture, Ingest, Playout, Channel Branding, MAM, Streaming, Video/Audio/File/Data Processing, Control, Monitoring.

The modular structure of the SL NEO software allows assembling functional software elements in different configurations from the simplest to the most complex professional ones.

Maximum automation of routine operations:

"Secondary events" and text parameterization allows you to automate the branding of channels.

The built-in system of actions and automatic execution of internal procedures make it possible to customize the system's logic and its reactions to external and internal events.

Automation of operations with files allows you to collect source materials for playout.

Scalability of the system without stopping it.

Continuous development of the SL NEO product line, software, functionality extension, support for new protocols, formats and interfaces.

VERSATILITY

Support for all common file containers and codecs, integration with NLEs, tape libraries and traffic systems.

Support for TV formats from SD to Ultra HD, support for all common industry I/O interfaces and streaming protocols.

ANC data processing: receiving, decoding, retransmission and generating VITC, SCTE tags, teletext, and closed captioning.

Integration with industry leading brands, support for most common device control protocols.

Decoding and Encoding of SDI/ASI/IP streams with additional features: audio/video levels adjustment, audio tracks switching, Windows desktop capture, DirectShow device support.

On-line Up/Down/Cross Conversions with interlinear and interframe interpolation, HDR - SDR conversions during file or live sources playout of different formats in the same playlist. The same features, transcoding and loudness normalization are available for file content.

TECHNICAL SUPPORT AND TRAINING PROGRAMS

Professional Support. Warranty and post-warranty technical support, maintenance services guarantee system operability during the whole period of its operation.

Training videos and operator training programs help staff quickly adapt to the user interface and functions of the client software.

Easy administration of server platforms: extensive technical knowledge base, training programs for administrators.

RELIABILITY

System reliability is ensured by multiple hardware and software redundancies at different levels.

Redundancy Schemes from N+1 to N+N:

Hot Redundancy: parallel running of half sets, on-line synchronization of all Backup Playlists from Main Server.

Media DB mirroring, copying content from the Main Server to the Backup with tracking of changes in file versions.

Use server-client architecture, control via lan or wan.

The failure of the workstation will not affect the execution of the playback and recording schedules, there can be several control computers and they can duplicate each other.

Network security is higher due to the use of clip technology rather than file technology. Users does not work with "shared" folders and has no direct access to the file system.

Real work for at least 6 months in 24*7 mode without reboots.

Using only server computing platforms, I/O Boards of reliable brands: Dektec, Matrox, Nvidia, Intel, Adaptec, Supermicro, HP, Dell.

Professional software development, design, installation of equipment and cabling, testing and thorough inspection of equipment before shipment.

Hundreds of successful systems in many countries.

ECONOMIC EFFICIENCY

Cost-cutting functionality: The Channel-In-A-Box solution can significantly reduce the playout system budget by redistributing functionality from multiple hardware infrastructure elements to software modules.

Many actual functions are already built into the system and do not require additional payment.

Example: all supported codecs/containers for media files, I/O interface types, and streaming IP protocols are already included in the basic software configurations.

Multi-channel, reducing costs: one SL NEO server can have more than a dozen HD recording and playout channels, up to 8x HD stream encoding with support for all common network protocols.

Completely autonomous system functioning without operators' involvement: if necessary, the only thing needed is to upload the content itself and playlists files.

The price of the solution is comparable with the offers in the industry and is usually lower, while the indicators of functionality and fault tolerance are higher.

Flexible system of discounts and payment for equipment and software, including SaaS model,

Partner programs for system integrators and dealers.