

# SL NEO 6000

## Compliance Recording, Monitoring and Logging



### A Universal Solution for Automated Multi-Channel Recording, Monitoring and Logging

The SL NEO 6000 series servers are designed for local or remote monitoring and recording of television and radio broadcasts (logging). The broadcast recording system based on the SL NEO 6000 series servers permits the constant recording of an unlimited number of TV channels and radio broadcasts.

There are two recording modes: uninterrupted, according to the server's internal schedule (for example, "Monday through Friday, 6 a.m. to 12 a.m.") or according to a more detailed preset schedule. Recording parameters may be set for every channel individually. The server gives an opportunity to import broadcast playlists, making searching for materials easier.

#### Cyclical recording mode

The system operates in cyclical recording mode that allows the disk space to be used effectively. For each channel, a materials' storage period is set (for example 90 days), at the end of which the media- and metadata are automatically deleted.

#### Built-in Software MultiViewer for Client Workstations

The SL NEO 6000 series servers use encoding and low-speed IP-streaming technology for control of all input signals in multi-view mode on a PC monitor with the option of full-screen viewing of a chosen channel with sound.

#### Access to the material within seconds after recording starts

Archive materials become accessible for search and viewing in 1 second after the beginning of the recording. Servers SL NEO 6000 implement a real-time search of materials according to basic attributes (date, broadcast time, channel, playlist event, text commentary), besides, they provide frame-by-frame precision of viewing and navigation.

SL NEO 6000 series servers can both export selected materials or fragments of materials in the form of separate files and export to DVD.

#### Additional SDI/HDMI MultiViewer Output

The SL NEO server may be equipped with additional HD-SDI or HDMI outputs which can be used for monitoring of all server inputs on a HD-SDI monitor or flat panel with HDMI inputs.

MultiViewer output supports up to 12 of server's input channels. Built-in audio mixer allows switching audio output to any of the input audio channels, as well as mixing any number of selected input channels.

### Key Features and Benefits

- Automation of recording of various types of SD/HD signals: SDI/YCRCB/CVBS, SDI Embedded/AES/Analog Audio, SPTS/MPTS in DVB-ASI/IP, MPEG-2/H.264, embedded recording schedule;
- Automated audio signal recording (for radio broadcasts);
- Recording with various resolution parameters (Full Res/Proxy);
- Ability to superimpose the actual date and time of the recording on the image while recording;
- Management of media data in server archives, with search functions;
- Collective, real-time editing of selected fragments from proxy copies, export of files to local/external/networked drives, with the support of the majority of popular codecs & file containers;
- MultiScreen monitoring of all input signals being recorded;
- Combined, collective user operations when viewing materials with limited access rights to system resources, management of recording channels via a common simple, convenient user interface;
- Generation of reports (logs) on major events (recording, data management, user activity);

The types, number, and settings for server program modules and their interaction determine the functionality of servers from a given series.

### Technical Specifications

- Video Formats (depends on model): SD: 625i, 25 f/s, or 525i, 29.97 f/s, HD: 1080i, 25 or 29.97 f/s, 720p, 50 or 59.94 f/s;
- Inputs (depends on model): SD/HD SDI/CVBS/YUV, Analog/AES/SDI Embedded Audio, MPTS/SPTS over DVB ASI/IP, UDP/RTP Unicast/Multicast, DVI-I/D;
- Audio: 4 AES/EBU pairs per video I/O channel, 8 pairs embedded per video I/O channel 16-, 20- or 24-bit PCM, 48 kHz;
- SD/HD File Encoding: AVID DNxHD (120, 145, 185, 220 Mbit/s), Panasonic (DVCPRO25, DVCPRO50, DVCPROHD), Sony XDCAM IMX (30, 40, 50), XDCAM HD 422, HDV, AVCHD, DV25, MPEG-2 IBP GOP, H.264;
- File Containers: AVI, MOV, MP4, MXF D-10/OP1A, RAW DV/DIF, MPEG PS/TS, MPG;
- Timecode/NTP Support: NTP client over Ethernet, LTC in (option);
- GPI I/O: Inputs 4...16 (option), Outputs 4...16 (option);
- Dimensions (depends on model): 1...6RU, Weight (5...50 kg);
- Power Supply: Dual hot-swappable; Voltage: AC 115 to 120 V, 200 to 240 V, auto select.



# SL NEO 6000 Models

## Ordering Information



**What's included:** fully configured and ready for work server platform with pre-installed video IO boards, pre-installed SL NEO Server and Client software bundle, software codecs, 1 client software license for an additional client workstation.  
**1-year standard warranty, 1-year telephone/e-mail technical support.**

## 6100/6300 Models. Time table based recording, air-logging

**HD/SD or SD-only configurations. Automated multichannel low-bitrate recording for air-logging (MPEG-2 or H.264), on-line monitoring and preview over network.** As an option, servers may come with analog TV, DVB-T or DVB-S receivers (not included in server's price)

### HD/SD models with SDI (optional additional IP/ASI) inputs

Base Model	Inputs	Outputs	Video IO Platform	Signal Types
<b>Matrox DSX LE3 based models</b>				
SL NEO 6310 M4	1	0	Matrox DSX LE3	HD/SD SDI+AE
SL NEO 6320 M4	2	0	Matrox DSX LE3	HD/SD SDI+AE
SL NEO 6340 M4	4	0	Matrox DSX LE3	HD/SD SDI+AE
SL NEO 6360 M8	6	0	Matrox DSX LE3	HD/SD SDI+AE
SL NEO 6380 M8	8	0	Matrox DSX LE3	HD/SD SDI+AE

### HD/SD models with MPEG-2/H.264 ASI TS or SD SDI inputs

<b>Dektec DTA based models</b>				
Base Model	Inputs	Outputs	Video IO Platform	Signal Types
SL NEO 6310 D4	1	0	Dektec DTA	ASI SPTS/SD SDI+AE
SL NEO 6320 D4	2	0	Dektec DTA	ASI SPTS/SD SDI+AE
SL NEO 6340 D4	4	0	Dektec DTA	ASI SPTS/SD SDI+AE
SL NEO 6360 D8	6	0	Dektec DTA	ASI SPTS/SD SDI+AE
SL NEO 6380 D8	8	0	Dektec DTA	ASI SPTS/SD SDI+AE

### HD/SD models with MPEG-2/H.264 IP UDP/RTP TS inputs

SL NEO 6310 E4	1	0	Onboard Ethernet	IP SPTS
SL NEO 6320 E4	2	0	Onboard Ethernet	IP SPTS
SL NEO 6340 E4	4	0	Onboard Ethernet	IP SPTS
SL NEO 6360 E8	6	0	Onboard Ethernet	IP SPTS
SL NEO 6380 E8	8	0	Onboard Ethernet	IP SPTS

### SD-only models with SDI (optional additional IP/ASI) inputs

Base Model	Inputs	Outputs	Video IO Platform	Signal Types
<b>Matrox DSX.LE3 based models</b>				
SL NEO 6120 M4	2	0	Matrox DSX LE3	SD SDI+AE
SL NEO 6140 M4	4	0	Matrox DSX LE3	SD SDI+AE
SL NEO 6160 M4	6	0	Matrox DSX LE3	SD SDI+AE
SL NEO 6180 M8	8	0	Matrox DSX LE3	SD SDI+AE
SL NEO 61120 M8	12	0	Matrox DSX LE3	SD SDI+AE

### SD-only models with MPEG-2/H.264 ASI TS or SD SDI inputs

<b>Dektec DTA based models</b>				
Base Model	Inputs	Outputs	Video IO Platform	Signal Types
SL NEO 6120 D4	2	0	Dektec DTA	ASI SPTS/SD SDI+AE
SL NEO 6140 D4	4	0	Dektec DTA	ASI SPTS/SD SDI+AE
SL NEO 6160 D4	6	0	Dektec DTA	ASI SPTS/SD SDI+AE
SL NEO 6180 D8	8	0	Dektec DTA	ASI SPTS/SD SDI+AE

SL NEO 61120 D8	12	0	Dektec DTA	ASI SPTS/SD SDI+AE
<b>SD-only models with MPEG-2/H.264 IP UDP/RTP TS inputs</b>				
SL NEO 6120 E4	2	0	Onboard Ethernet	IP SPTS
SL NEO 6140 E4	4	0	Onboard Ethernet	IP SPTS
SL NEO 6160 E4	6	0	Onboard Ethernet	IP SPTS
SL NEO 6180 E8	8	0	Onboard Ethernet	IP SPTS
SL NEO 61120 E8	12	0	Onboard Ethernet	IP SPTS

### Software and hardware options for SL NEO 6000 series

Name	Description
HP/Dell Chassis	HP/Dell Hardware Platform
AES IN/OUT	AES I/O Hardware Option
<b>Additional ASI SPTS inputs</b>	
ASI HD SPTS IN/OUT	1x Additional HD ASI SPTS IN or OUT Ch. via Dektec DTA
ASI SD SPTS IN/OUT	1x Additional SD ASI SPTS IN or OUT Ch. via Dektec DTA
<b>Additional IP SPTS inputs</b>	
IP HD SPTS IN/REC CH	1x Additional HD IP SPTS Input/Rec. Ch. via Onboard Ethernet Port
IP SD SPTS IN/REC CH	1x Additional SD IP SPTS Input/Rec. Ch. via Onboard Ethernet Port
IP HD SPTS Encoding OUT CH	1x Additional HD IP SPTS Encoding Ch. via Onboard Ethernet Port
IP SD SPTS Encoding OUT CH	1x Additional SD IP SPTS Encoding Ch. via Onboard Ethernet Port
<b>Transport Stream Multiplexer/Demultiplexer/Cherry-picker</b>	
SL NEO TS REMUX	Remux Software Option for IP/ASI TS
<b>Additional MultiScreen (HD SDI/HDMI) outputs</b>	
4 CH MultiScreen OUT	1x Additional HD SDI/HDMI Ch. Output
8 CH MultiScreen OUT	1x Additional HD SDI/HDMI Ch. Output
12 CH MultiScreen OUT	1x Additional HD SDI/HDMI Ch. Output
<b>Internal RAID-array expansion</b>	
Up to 8/12/16/24/36/48TB Storage	
<b>Device control, Device server</b>	
GPI I/O Device Server	GPI Device Control (1...8 ports, ext. USB GPI module included)
External CP	External USB Control Panel (10...80 keys)
<b>Automated file transfer</b>	
Media File Transfer Software	Automatic File/SL NEO Clips Transfer use Transfer Rules

### Client workstation software for SL NEO Media-Servers

Name	Description
Air Manager Client Software	Ingest/Playout Ch. Control, Graphics/Playlist Editors, MAM Client
News Cut Client Software	Networked fast NLE with Proxy Support
Multiscreen Client Software	Networked Client for Live I/O ch. Monitoring on Client PC
Full Client Software Kit	All Clients Software Modules Included

### Model Designation: SL NEO ABCDEF

<b>A</b>	Server Series 1...7
<b>B</b>	1...2 - SD models, 3...4 - HD/SD models
<b>C</b>	Number of Inputs (Live & Rec Channels)
<b>D</b>	Number of Outputs (Program/Playout Channels)
<b>E</b>	I/O Board Type/Brand Name or TS Interface Type: <ul style="list-style-type: none"> <li><b>M</b> Matrox DSX Series</li> <li><b>D</b> DekTec DTA Series</li> <li><b>B</b> BlackMagic DeckLink Series</li> <li><b>E</b> Ethernet, Onboard Ethernet Port</li> </ul>
<b>F</b>	Internal Storage Capacity (Tb): <ul style="list-style-type: none"> <li><b>4</b> 4 Tb, Hardware RAID-10, 4xHDD RE 2Tb</li> <li><b>8</b> 8 Tb, Hardware RAID-10, 8xHDD RE 2Tb</li> </ul>

### I/O Signals & Streams Designations:

CVBS	Composite Video	ASI
------	-----------------	-----

<b>AA</b>	Audio Analogue	
<b>SDI</b>	Digital Video SDI	
<b>AE</b>	Embedded Audio in SDI	
<b>AES</b>	AES I/O available in some models with Matrox DSX Boards	

**IP**

**This document is the property of SkyLark Technology Inc.  
Any reproduction of this document in part or in whole is strictly prohibited.  
For informational purposes only. Subject to change without notice.**