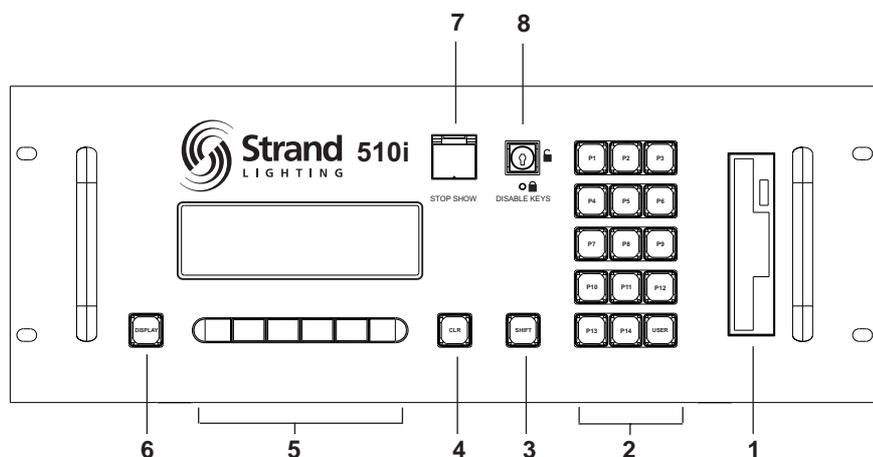# 510i™
Show controller/backup unit

Features

❑ High capacity show controller or full tracking backup unit for 500 series consoles on Ethernet

❑ Rugged, 4U high, 19" rack mountable unit

❑ Fully compatible with 500 series console functionality including Tracker™, CommuniquéPro™, Networker™ and Server™

❑ Simple front panel user interface provides advanced show playback using SMPTE timecode, Midi Show Control, 48 contact closure inputs or "GO" key playback

❑ Shows can be plotted on a 500 series console, Off Line PC, or directly on the 510i if a keyboard/Designer Keypad and monitor(s) are attached

❑ Multiple control events can be run in parallel

1. 3.5" floppy disk for show loading and archive
2. User programmable keys
3. Shift key for 2nd functions
4. CLR key clears the last command
5. LCD display & context sensitive soft keys
6. Display key selects next LCD screen
7. Stop Show backlit button with protective cover allows a show to be stopped and returned to a safe state in an emergency
8. Removable key to lock the user interface

Mechanical & environmental data

Construction	Galvanised steel enclosure with painted aluminium front panel. Flame retardant ABS controls
Operating Temperature	0° to 40°C ambient (32° to 104°F)
Storage Temperature	40° to 70°C (-40° to 158°F)
Humidity	5% - 95% non-condensing

Weights and dimensions

length	depth	height	weight	packed vol	packed wt
485mm	420mm	180mm	14kg	0.154m^3	23kg

STRAND LIGHTING DATA SHEETS

- ❑ Operating software controls a maximum of 6000 intensity channels and 2000 scroller or moving light attributes
- ❑ Intensity channels may be converted to additional attribute channels if required
- ❑ 2048 DMX outputs can be increased to 8192 (16 DMX universes) with SN10x nodes
- ❑ Operates stand alone as a fully functional playback unit using large backlit LCD and front panel keys. Attaching a keyboard/Designer Keypad and monitor(s) gives full 500 series functionality
- ❑ Remote DMX, monitors, handhelds, faders and MIDI are supported on ethernet (requires Networker™ software and SN10x network nodes)
- ❑ Automatic playback modes: SMPTE time-code (external and internal clocks), Midi show Control and 48 submaster macros (contact closure inputs)
- ❑ 3000 events can be recorded
- ❑ Up to10 events can be triggered simultaneously on one time-code
- ❑ Each event can trigger a cue and up to 2 of the following in any combination: macros, effects, submaster bumps
- ❑ With the keyboard and monitor, powerful SMPTE plotting modes are available
- ❑ Supports all the common SMPTE frame rates: 24, 25 30 drop and 30 non-drop
- ❑ Integral 3.5" floppy disk drive for show loading and archive
- ❑ Simultaneous digital and analogue protocols
- ❑ 2000 cues
- ❑ 1000 groups
- ❑ Up to 4 handheld remotes
- ❑ 30 effect playbacks
- ❑ 200 simultaneous fades
- ❑ 2 proportional electronic patches
- ❑ 16 bit DMX for accurate moving light control (requires Tracker™ software)

Technical specifications

Supply voltage
100V - 240V 50/60Hz

Processor
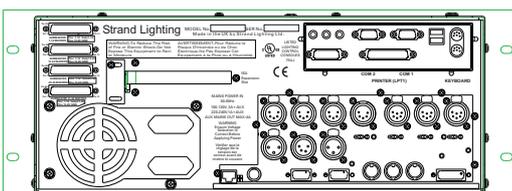Intel® Pentium II

Memory
64Mb RAM

Archive memory
3.5" floppy disk (DOS), internal hard drive or network file server (requires Networker and Server)

Connections

3	DMX512 outputs (512 dimmers per port) 5 pin female XLR
1	DMX512 input or output 5 pin male XLR
1	Ethernet interface 10Base T or 10Base 2
1	AMX192 output (192 dimmers) 4 pin male XLR
1	D54 output (384 dimmers) 3 pin female XLR
2	RS232 ports 9 pin male D type
1	Parallel printer port 25 pin female D-type
1	MIDI (In/Thru/Out) 5 pin female DIN
3	Auxiliary RS485/RS232 handheld remotes 6 pin female XLR
12	Analogue Inputs (0 to +10V) 15 pin D-type female with +10V output
1	Audio input shared with SMPTE Time Code, 10mV to 10V balanced 3 pin female XLR
1	Keyboard
2	VGA monitors (4 with optional VGA card) 15 pin female D-type high density
1	Power inlet: IEC320 male
48	Contact closure inputs (submaster macros) 25 pin D-type female x 4

Standards Compliance

UL, cUL (75AJ) EMC emissions to EN50081-1, EN55014; EMC immunity to EN50082-1, IEC1000-2-2 Safety: EN60950, EN60439 Part 1 (also part 12 BS5486); Design & build: ISO9001, UL1950

STRAND LIGHTING DATA SHEETS

Operating software

510i console kits come equipped with powerful operating software providing refined lighting control. Additional channel capacity and advanced functionality is added with Strand application software. A full playback interface is provided on the unit. If a keyboard/Designer Keypad and monitor(s) are attached full 500 series functionality is achieved.

Control capacity

510i supports up to 6000 intensity and 2000 attribute channels. Channel and attribute capacity is defined by the operating system software plus the number of channel expansion blocks loaded. Control capacity may be upgraded at any time by additional software in 50 or 200 channel blocks. Intensity channels may be converted to provide more attributes, but attributes cannot be converted into more intensity channels.

Channel control

A keyboard/Designer keypad must be used for setting channel levels, and recording lighting states. The associated LCD display provides local indication of channel control status, including the functions of six context-sensitive soft keys.

Playbacks

Two cue playback areas are provided, which may be configured for independent or combined operation, or condensed to a single playback. Each playback may have a separate cue sheet, enabling lighting cues to be run independently of motion cues, on separate playbacks, if desired. A total of 200 simultaneous fades are supported. Cues can be triggered from SMPTE events

Macros

15 programmable keys are available for user macros. The shift key can be used to access 14 more. Macros can be triggered from SMPTE events, contact closures, serial and MIDI inputs, real time clock, or at every power up.

Effects

Up to 30 simultaneous effects from a total of 600 per show each containing up to 99 fully overlapping steps can be run from playbacks, macros, submasters or manually from the effects playback panel. Effects steps contain recorded intensity levels and attribute positions for scroller or moving light effects. Levels used can be as recorded or random between max and min levels, inverted or alternately inverted. Each effect step can use individually programmable In, Dwell and Out times or may use the effect defaults. Effects can stop when instructed, after the last cycle or after a defined number of cycles or time. Effects can be chained. Step control can be manual, timed or (with CommuniquéPro) MIDI or audio. Effect, type, direction and speed can be modified while running and updated back into the effects memory if required. Effects can be started and stopped by SMPTE events.

Submasters

510i is provided with 54 submaster stores. Submasters may be used to mix memories, replay cues, including dimming and motion cues. Any submaster can be configured to provide the following special master control functions: master all submasters, audio input, DMX input, effects playbacks, bump level, MIDI. Submasters can be bumped up or down by SMPTE events.

Attribute Controls

510i controls up to 99 attributes of an automated light as recorded on a 500 series console. Colour scroller control is available in the same way. Attributes can be recorded in cues or in preset focus groups which cues can reference. Automated light functions are only available with Tracker™ application software.

Printer

Support for Epson FX, IBM Proprinter, HP Deskjet, HP Colour Deskjet, HP Laserjet, and plain ASCII is included in Operating Software and available through a keyboard/Designer keypad.

Application software

510i consoles include these application software packages as standard.

Tracker Application Software

Tracker adds fully-integrated moving light control to 500 Series consoles. Intuitive controls, displays, preset focus reference groups, auto move when dark, fixture libraries and dual automoving playbacks make Tracker™ easy and fast to use. 16 bit DMX is supported for accurate moving light control.

Networker Application Software

A 510i can be a network tracking back up for any 500 series console. Networker and SN10x Series Ethernet nodes support control of up to eight DMX universes. SN10x Series nodes can be used as part of a fully-integrated tracking back-up control system, automatically switching the DMX data source from the main to the back-up when the back-up console or PC comes on-line. Combining Networker and Server, up to five users can work simultaneously on the same show. Channels can be partitioned between users to prevent accidental changes. DMX Ports on SN10x series nodes are configurable. You can change a DMX port from an output to an input, or change its address, without patch cables or rewiring. Flexible remote video is provided.

CommuniquéPro Application Software

CommuniquéPro provides SMPTE time-code events,12 remote +10V analogue inputs for external submasters or macro switches; interfaces for DMX In (channel or dimmer modes) from remote DMX controllers; super master control for DMX In; macros triggered by configurable MIDI input, or configurable RS-232, ASCII serial input; RS-232 for remote ASCII control; MIDI Show Control; MIDI In/Thru/Out, plus a configurable macro trigger output port.

Optional application software

Server Application software

Turns a Windows PC into a comprehensive show file server permitting consoles or PCs running Networker to store show files on the server. Also adds user logins with password protection and access rights. A powerful login display provides easy changing between main, backup and remote console modes.

Utility software

Off-line Editor

A real time stand-alone program for a 486 or higher PC using MS-DOS to emulate the operational features of a 500 series console.

ShowPort

A DOS utility supplied with the operating software and off-line editor to convert show files between Strand Show File format and industry-standard ASCII Light Cues and comma-separated text formats, for transferring shows to and from other consoles.

ShowNet

A Windows 95™ utility to co-ordinate the configuration of SN10x series nodes. Provides named DMX universes, ports and site files. Downloads configuration files over the network.

Ordering information

Cat No Description

91410	510i console with 250 intensity channels and 250 attribute channels*
91411	510i console with 350 intensity channels and 250 attribute channels*
91412	510i console with 800 intensity channels and 500 attribute channels*
91413	510i console with 2000 intensity channels and 2000 attribute channels*
91414	510i console with 6000 intensity channels and 2000 attribute channels*

Includes Operating Software, Tracker, CommuniquéPro and Networker

Software

Cat No   Description

Operating Software

67511	GeniusPro/Lightpalette 50 channel expansion
67513	GeniusPro/Lightpalette 200 channel expansion

Application Software

67523	Tracker (Automated luminaire software)
67515	CommuniquéPro (Communications application software)
67519	Networker (Ethernet application software)
67521	Server (Central file storage software)

Shownet and Off Line Editor are available from our website

Peripherals and accessories

Cat No   Description

66012	Monitor 14" VGA - 230V
66013	Monitor 15" SVGA - 110/230V
66014	10.4" Flat screen monitor 110/240V
66015	Dual VGA card
66032	Dust cover for 14" monitor
66214	Designer's keypad
66022	Printer Inkjet B & W - 230V
66024	Printer Laserjet B & W - 230V
66026	Printer Inkjet Colour - 230V
66123	Base Station EU (433.92 MHz)
66124	Base Station UK (418 MHz)
66126	R120 Hand held remote UK (418 MHz 230V)
66127	R120 Hand held remote EU (433.92 MHz 230V)
66129	R120 Hand held remote wired
66211	Mini keyboard UK
66212	Mini keyboard German
66213	Mini keyboard French

www.strandlight.com