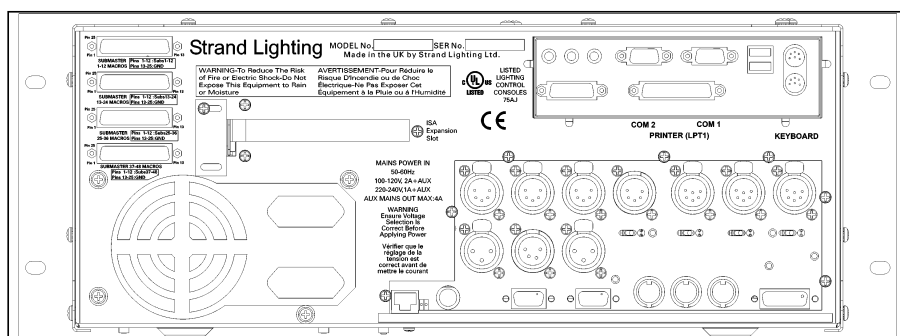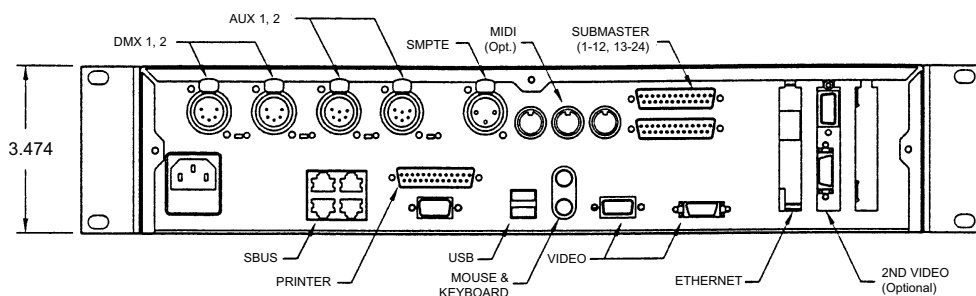# 310 / 510i
Show controller/backup unit

Features

❑ Two versions available -- high capacity 510i features 600 to 6000 channels, standard capacity 310 features 125 to 600 channels

❑ Fully compatible with 300 and 500 series consoles including Tracker™ motion control software, CommuniquéPro™, Reporter and ShowNet networking

❑ Simple front panel user interface with direct access pushbuttons on all 510i controllers and touchscreen controls on 310 systems

❑ Full support for SMPTE timecode multi-event programming is provided on both controllers Contact closure, MIDI and ASCII control inputs are also standard features

❑ Shows may be programmed on off line editors, or consoles, 310 controllers feature direct control surface interface

510i Show Controller System

Mechanical & environmental data

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

Weights and dimensions

	length	depth	height
510	19in (483mm)	16.5in (419mm)	7in (177.8mm)
310	19 in (483mm)	11.88 in (302mm)	3.47 in (88mm)

Strand
LIGHTING

Operating software

All 310/510i systems 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.

( ) INDICATES FEATURES FOR 310 SYSTEMS

Control capacity

Each 510i (310) supports up to 6000 (600) intensity and 2000 (400) 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 (100) simultaneous fades are supported. Cues can be triggered from SMPTE events.

Macros

15 programmable keys are available for user macros on 510i systems. 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 (12) simultaneous effects from a total of 600 (300) 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 contact closures. Closures may be used to mix memories, replay cues, including dimming and motion cues.

Attribute Controls

510i (310) controls up to 99 attributes of an automated light as recorded on a 500 (300) series console. Color 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 Color Deskjet, HP Laserjet, and plain ASCII is included in Operating Software and available through a keyboard/designer keypad

Application software

All consoles include these application software packages as standard.

Tracker Application Software

Tracker adds fully-integrated moving light control to all 300/500 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

Any (310)/ 510i can be a network tracking backup for any 300/500 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 comes on-line. Combining Networker and Server, up to five users can work simultaneously on the same show (500 series only). 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,analog 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 300/500 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 98® utility to co-ordinate the configuration of SN10x series nodes. Provides named DMX universes, ports and site files. Downloads configuration files over the network.

( ) INDICATES FEATURES FOR 310 SYSTEMS

- Operating software controls a maximum of (600) 2000 intensity channels and (400) 2000 scroller or moving light attributes
- (1024)/2048 DMX outputs can be increased to (1536)/8192 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 300/500 series functionality
- Remote DMX
- Automatic playback modes: SMPTE time-code (external and internal clocks), Midi show Control and 48/(24) submaster macros (contact closure inputs)
- 3000 events can be recorded
- Up to 10 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
- 30/(10) effect playbacks
- (100)/200 simultaneous fades
- (1)/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 – 510i

Archive memory
3.5" floppy disk (DOS), internal hard drive on 510i or network file server (requires Networker and Server)

Ordering information

Cat No	Description
95708	310 show controller 125 channels
95709	310 show controller 250 channels
95710	310 show controller 900 channels
95711	310 show controller 600 channels
95010	510i show controller with 600 channels and 400 attribute channels*
95011	510i show controller with 1000 channels and 500 attribute channels*
95012	510i show controller with 1500 channels and 500 attribute channels*
95013	510i show controller with 2000 channels and 2000 attribute channels*
95014	510i show controller with 6000 channels and 2000 attribute channels*

Includes Operating Software and Tracker, CommuniquéPro and Networker

Ordering information Software
Operating Software

Cat No	Description
67431	Off Line Editor for Lightpalette (includes Showport™)
67511	Lightpalette/GeniusPro 50 channel expansion
67513	Lightpalette/GeniusPro 200 channel expansion

Peripherals and accessories

Cat No	Description
66021	Printer inkjet B & W - 110V
66023	Printer laserjet B & W - 110V
66025	Printer inkjet Color - 110V
66130	Hand held remote
66210	Mini keyboard
66011	Color monitor
66012	Color monitor (UK)
66013	Monitor SVGA - 110/230V
66014	Flat screen monitor 110/240V
66015	Dual VGA card 510 only
66032	Dust cover for monitor
66214	Designer's keypad
66304	2nd VGA for 300 series

Strand LIGHTING