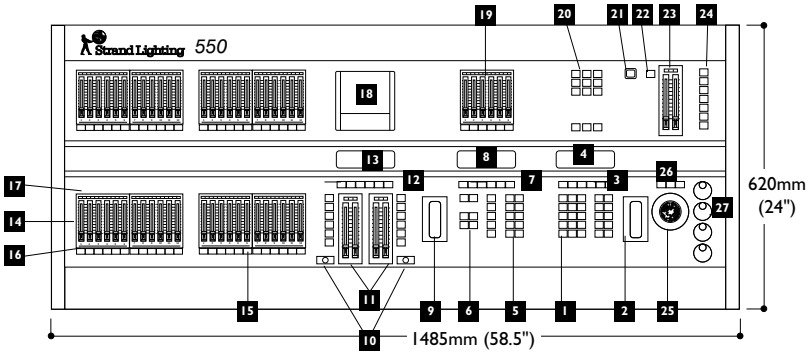
Strand Lighting

PRODUCT DATA

6.5.6

CONTROLS

A Guide to the Strand 550 Control Console



1. Command keypad
2. Channel level wheel
3. Context sensitive soft keys
4. Graphics LCD (for command keypad and soft keys)
5. Function keypad
6. Effects keypad
7. Effects soft keys
8. Graphics LCD (for effects, soft keys and Supermaster labels)
9. Rate wheel
10. Playback 'Go'
11. Playbacks
12. Context sensitive soft keys
13. Graphics LCD (for playbacks)
14. 48 Submasters
15. Bump buttons
16. Submaster active LEDs
17. Submaster loaded LEDs
18. Floppy Disk Drive
19. 6 Submasters (Supermasters)
20. Display and Command routing keypad
21. Power On/Off
22. Programmable Grandmaster/Stop
23. Grandmasters
24. User programmable keys
25. Tracker ball*
26. Tracker ball & Rotary control option keys*
27. Rotary controls*

* *requires Tracker™ software for full attribute functionality*

Strand 550

Transportable or installed memory lighting console with 54 submasters, for use with GeniusPlus or Lightpalette operating software and additional optional Strand application software packages (see separate data sheet for details). The operating software chosen sets the capacity of the system in increments from 100 intensity channels plus 100 colour or motion attributes to a maximum of 1500 channels plus 500 attributes. Attribute capacity may be increased by re-allocating unused intensity channels. Future expansion of capacity or functions (through application software) is designed into the system through the purchase of upgrade packs or additional extension software.

120V-240V universal 50/60Hz | 1500 ch. + 500 att. | 1536 (console) 2000 (network) | 54
2000 | DMX512, D54 | 1485 x 620 x 150mm (58.5" x 24" x 6") | 55kg (115lb)
1485 x 670mm (58.5" x 26") | 70kg (154lb) | 0.47m³ | UL, cUL (pending), EMC

Cat. No.	Description
64514	Strand 550 console, (requires Lightpalette or GeniusPlus Operating software minimum)

A GUIDE TO SYMBOLS AND ABBREVIATIONS

Supply voltage | Number of channels | Number of dimmers | Number of sub-masters
Typical memory capacity | Control protocol | Weight of product | Overall dimension of product
Packed weight | Packed volume | Desk space required | Compliance with International Standards
HTP Highest level takes precedence LTP Latest action takes precedence

STRAND 550™
High-Capability Console Platform

- Lighting control hardware platform to operate with a selection of high capability Strand application software
- For professional theatre, concert halls, TV studios and touring
- 54 submasters - 48 plus 6 'Supermasters' with LCD labels
- Choice of either GeniusPlus™ or Lightpalette™ operating software - a range of optional extension software is also available
- Equipped with Intel Pentium 90 processor
- Operating software controls a maximum of 1500 intensity channels, 500 scrollers and moving light attributes
- 1536 DMX Mux outputs at console, 2048 total if optional Networker software and SN100 nodes are used
- Intensity channels may be converted into additional attribute channels if required
- Three large backlit graphic LCD displays with context sensitive soft keys
- Hard disk for show storage
- 6 pages of individually programmable submasters, plus any submaster or supermaster can be configured as one of 6 user-selectable function masters
- Dedicated tracker ball and rotary controls for automated light attributes (requires optional Tracker™ software to function)
- Simultaneous digital and analogue multiplex protocols
- Two split crossfade playbacks for software-selectable single or twin playback operation
- 128 simultaneous playback fades supported
- Twin programmable Grand Masters and user-selectable blackout/stop control
- Two proportional electronic patches
- Ten effects playbacks
- One or two VGA colour monitor outputs
- Integral 3.5" disk drive
- Internal 500Mb hard drive

Strand 550 Peripherals & Accessories

Cat. No.	Description
66011	VGA 14" Monitor 110V*
66012	VGA 14" Monitor 230/240V
66041	Wired Handheld Designers Remote
66210	Mini keyboard USA
66211	Mini keyboard UK
66035	Dust cover Strand 550

* Larger displays available. Consult factory

Strand 550 Software

(for further details, please refer to software datasheets)

Cat. No.	Description
67311	GeniusPlus Operating Software (100 channels)
67331	Lightpalette Operating Software (100 channels)
67511	GeniusPlus/Lightpalette 50 channel expansion
67513	GeniusPlus/Lightpalette 200 channel expansion
67515	CommuniquéPlus (Comms. Application software)
67519	Networker (Ethernet Application software)
67523	Tracker (Automated Luminaire Application software)
67411	GeniusPlus Offline Editor
67931	Lightpalette Offline Editor
66126	Radio Remote UK (418 MHz)
66124	Base Station UK (418 MHz)
66127	Radio Remote EU (433.92 MHz)
66123	Base Station EU (433.92 MHz)
66129	Wired Remote UK/EU

Technical Specifications

Supply voltage	100V - 240V 50/60Hz, autosensing
Processor	Intel® Pentium 90
Memory	8Mb RAM, Internal 500Mb Hard drive
Archive memory	3.5" floppy disk (DOS)
Connections	Dimmers: DMX512 outputs (512 dimmers per port), 5 pin female XLR (3 max - see DMX input below)
	Dimmers: AMX192 output (192 dimmers), 4 pin male XLR (1)
	Dimmers: D54 output (384 dimmers), 3 pin female XLR (1)
	DMX Input, 5 pin male XLR (1 - shared with DMX outputs)
	Handheld remote (1)
	Parallel printer, 25 pin female D-type (1)
	MIDI (In/Thru/Out)
	Dimmer Overtemp, 4 pin male XLR (1)
	Auxiliary RS485 (3)
	12 Analogue Inpu ts +10V, 15 pin D-type female (1)
	Audio input, 10mV to 10V balanced, 3 pin female XLR (1)
	Keyboard (1)
	VGA monitors, high density 15 pin female D-type (2)
	Ethernet (1, optional - card supplied with Networker™ software)
	Power inlet: IEC320 (male) Power outlet: IEC320 (female) 4A max
Standards Compliance	UL, cUL (pending), 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: ISO9000, UL1950
Software	GeniusPlus™, Lightpalette™* operating software minimum. Extension software includes CommuniquéPlus™ (comms), Tracker™(automated lighting), Networker™ (Ethernet networking, includes interface PCB for console, and requires Strand SN100 Ethernet nodes for access to video signals and dimmer signals remotely). Off-line editor*.
Control Capacity	From 300 to 1500 dimming channels, plus from 250 to 800 attributes for moving lights or colour scrollers, patchable to a maximum of 1536 DMX outputs or 2048 if optional Networker software and SN100 nodes are used. Channel and attribute capacity is defined by the version of GeniusPlus or Lightpalette Operating software purchased. Control capacity may be upgraded at any time by additional software in 50 or 200 channel blocks. Intensity/attribute capacities are as follows: 350 dimmers / 250 attributes 400 dimmers / 400 attributes to 750 dimmers / 400 attributes 800 dimmers / 500 attributes to 1500 dimmers / 500 attributes Dimming channels may be converted to provide more attributes, but attributes cannot be converted into more channels.
Control inputs	One DMX input (512 dimmers), and 12 analogue inputs (0 to +10V). DMX inputs may be patched to DMX outputs with a scaling factor if required. Analogue input signals are used for remote control of selected submasters.
Printer	Support for Epsom FX, IBM Proprinter, HP Deskjet, HP Laserjet, and ASCII are included in Operating Software.

Environmental Data

Operating Temperature	0° to 40°C ambient (32° to 104°F)
Storage Temperature	-40° to 70°C (-40° to 158°F)
Location	Good office environment
Humidity	5% - 95% non-condensing

Mechanical Data

Construction	Galvanised sheet steel and aluminium extrusion. Flame retardant ABS controls.			
Weight and dimensions	**length**	**depth**	**height**	**weight**
Strand 530	1485 58.5"	620mm 24"	150mm 6"	55kg 115lb

Operational Data

The operation of the Strand 550 console depends on the software chosen for the system, and the user's preference of operational functions which may be custom configured. Further details of the operational features are given in the software data sheets.

Channel control	Main command keypad 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. Level wheel adjusts channel levels. If Tracker™ software is included, the tracker ball and rotary wheels are activated to enable a single channel number reference (entered on the command keypad) to give immediate access to all attributes of an automated luminaire, or a scroller.
Playbacks	Two playbacks are provided, which may be configured for independent or combined operation, or condensed to a single playback. A rate wheel is provided to adjust the rate of progress of a lighting change. 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 128 simultaneous fades are supported.
Macros	6 direct Macro keys are provided, with graphic LCD labels, with access to the maximum 999 via the keypad.
Effects	Up to 30 simultaneous effects from a total of 500 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, inserted 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 CommuniquePlus MIDI or audio. Effects type, direction and speed can be modified whilst running and updated back into the effects memory if required.
Submasters	30 submasters are provided; 24 plus 6 'supermasters'. Each submaster has a bump button, and two LED indicators to signal the status and activity of each submaster. Submasters may be used to mix memories, replay cues, including dimming and motion cues. The six Supermasters have adjacent labelling provided by an LCD display. Any submaster or supermaster can be configured to provide the following special master control functions: master all Submasters, Audio input, DMX input, Effects playbacks, Bump level, MIDI. If the Supermasters are used for a special function, the LCD display will show the function name selected.
Attribute Controls	A trackerball, three pushbuttons and four rotary controls provide direct access to colour, pan and tilt, and up to 32 functions of an automated light by entering a single unit number. (Colour control is available with the operating software. Automated light functions only available with Tracker™ software).
VDU Switching	The VDU keypad switches the VDU displays between channel, dimmer and cue information. They also provide control path routing to match the active VDU display.
On/Off	Main switch is provided on the front panel of the console.
Grand Masters Blackout button	Two Grandmaster faders are provided, plus a programmable and for 'Blackout' or 'Stop'.
User Programmable keys	7 additional keys are available for user-programmable functions

Strand Lighting

London: Strand Lighting Ltd, Grant Way, Isleworth, Middlesex, TW7 5QD, United Kingdom.
Tel: +44 (0)181 560 3171 Fax: +44 (0)181 568 2103

Wolfenbüttel: Strand Lighting GmbH, Salzbergstraße 2, 38302 Wolfenbüttel, Germany.
Tel: +49 (0) 5331 3008-8 Fax: +49 (0) 5331 78883

Rome: Strand Lighting Srl, Via delle Gardenie 33, Pontina Vecchia Km 33,400,
00040 Pomezia-Roma, Italy
Tel: +39 (0) 6 914 7123 Fax: +39 (0) 6 914 7136

Brussels: Strand Lighting Ltd, Chaussée de Haecht 1801, 1130 Bruxelles, Belgium
Tel: +32 (0) 2 245 8686 Fax: +32 (0) 2 245 2235

Stockholm: Strand Lighting Ltd, Box 20105, Tappvägen 24, 161 02 Bromma, Sweden
Tel: +46 (0) 8 799 6950 Fax: +46 (0) 8 799 6954

ALSO
FACILITIES IN: **LOS ANGELES • NEW YORK • HONG KONG • MILANO • MUNICH • BERLIN**

© Copyright Strand Lighting Limited November1995

The Company reserves the right to make any variation in design or construction to the equipment described.© Strand Lighting Ltd 1995. Strand™, Strand Lighting™ and MX™ are trade marks of Strand Lighting Limited. Strand Lighting is a company within the Film & Television Division of The Rank Organisation Plc, United Kingdom.
Country of origin United Kingdom.