

# Strand Lighting

P R O D U C T   D A T A

A Guide to the GeniusPro 520 & 520i Consoles

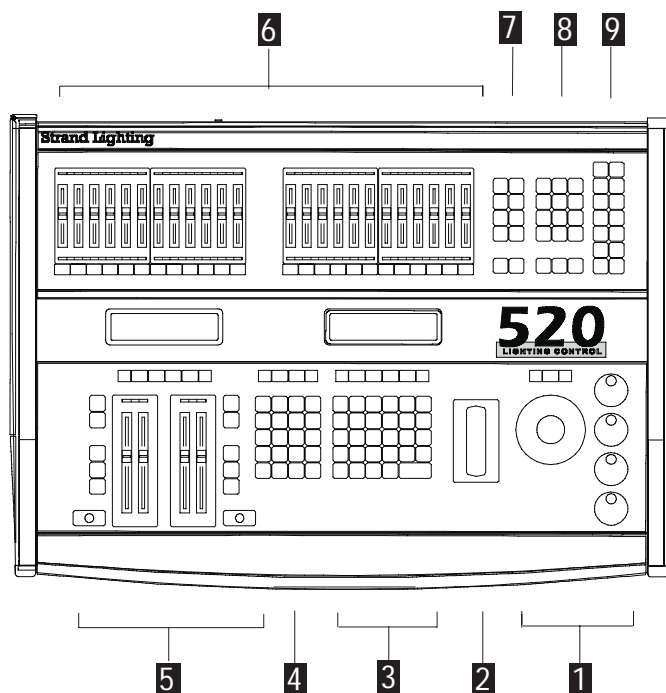
520/520i Console

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C O N T R O L S

## GeniusPro 520/520i™

### Portable Control Console Platforms



1. Tracker ball, rotary controls and option keys for moving light control\*
2. Multi function wheel
3. Command keypad, context sensitive soft keys and graphics LCD
4. Function keypad and context sensitive soft keys
5. Playbacks, 'GO' button, context sensitive soft keys and graphics LCD
6. Submasters, bump buttons, 'active' and 'loaded' LED indicators
7. Effects buttons
8. Display and command routing keypad
9. User programmable keys

\*requires Tracker™ software for full attribute functionality

- Lighting control consoles with flexibility of user selectable channel capacity, operating style and application programs
- Powerful integrated moving light capability
- Choice of either Lightpalette™ command line/tracking style operation or GeniusPro™ preset style operation
- Compact design for trouping
- Choice of standard 520 Console or high capacity 520i Console with extended channel capacity
- Operating software controls a maximum of:

520	1500 intensity channels, 500 scroller or moving light attributes
520i	2000 intensity channels, 2000 scroller or moving light attributes
- Intensity channels may be converted to additional attribute channels if required
- Console capability can be expanded through a range of powerful application software packages
- 520 equipped with Intel Pentium®133 processor  
520i equipped with Intel Pentium®Pro 200 processor
- 2048 DMX outputs can be increased to 4096 with optional Networker software and SN100 nodes
- One or two VGA colour monitor outputs as standard but can be upgraded to four on 520i
- Two large backlit graphic LCD displays with context sensitive soft keys
- Hard disk for show storage
- Integral 3.5" disk drive
- 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 when loaded with Tracker™ software
- 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
- 30 effects playbacks
- Multilingual support in English, Dutch, French, German, Italian, Russian, Spanish, Swedish

## GeniusPro 520 & 520i Consoles

Portable memory lighting control consoles for use with either GeniusPro or Lightpalette operating system software and optional Strand application software packages and with powerful integrated moving light control capability. Equipped with 24 Sub/Supermasters the console is available in standard 520 model or high channel capacity 520i version.

The operating system software chosen provides a base level of 100 intensity channels plus 100 colour or motion attributes and can be increased at any time in increments of 50/50 or 200/200 to a maximum of:

- 520 1500 intensity channels plus 500 scroller/moving light attributes
- 520i 2000 intensity channels plus 2000 scroller/moving light attributes.

Attribute capacity may be increased by re-allocating unused intensity channels. Future expansion of control functionality is designed into the system by means of a wide range of optional application software packages. (See separate data sheet for details)

### Cat. No. Description

64506	GeniusPro 520 Console
64524	GeniusPro 520i Console

GeniusPro consoles require Lightpalette or GeniusPro operating software, and a monitor minimum.

## Peripherals & Accessories

### Cat. No. Description

66015	Dual VGA Card for GeniusPro consoles
66011	VGA 14" Monitor - 110V
66013	VGA 15" FST Monitor - 120/230V
66014	VGA 10.4" Flat Screen Monitor - 100/240V
66210	Mini keyboard
66214	Designer's Keypad
66125	Radio Remote (902-928 MHz)
66121	Base Station (902-928 MHz)
66128	Wired Remote
66021	Printer - Inkjet 115V
66023	Printer - Laserjet 115V
66025	Printer - Colour inkjet 115V
66044	Dust cover GeniusPro 520/520i
66057	Flightcase for GeniusPro 520/520i

## GeniusPro Software

### Cat. No. Description

<b>Operating Software</b>	
67311	GeniusPro - Operating Software with 100/100 channels
67331	Lightpalette - Operating Software with 100/100 channels
67511	GeniusPro/Lightpalette 50 channel expansion
67513	GeniusPro/Lightpalette 200 channel expansion
67411	GeniusPro Off Line Editor (includes ShowPort™)
67431	Lightpalette Off Line Editor (includes ShowPort™)
67312	GeniusPro PC (OS for PC operation)
67332	Lightpalette PC (OS for PC operation)
67398	GeniusPro OS - Upgrade to V2.0
67399	Lightpalette OS - Upgrade to V2.0
<b>Application Software</b>	
67515	CommuniqéPro (Communications application software)
67519	Networker (Ethernet application software)
67523	Tracker (Automated luminaire software)
67521	Server (Central file storage software)

(for further details, please refer to software datasheets)

## Operational Data

The operation of the 520 and 520i consoles depends on the operating system software chosen and the user's preference of additional operational functions available from a separate range of Application software programs (See software data sheets)

<b>Channel control</b>	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.
<b>Playbacks</b>	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.
<b>Effects</b>	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, 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 CommuniqéPro MIDI or audio. Effect, type, direction and speed can be modified while running and updated back into the effects memory if required.
<b>Submasters</b>	24 submasters or '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 names selected.
<b>Attribute Controls</b>	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 scroller control is available with the operating software. Automated light functions are only available with Tracker™ application software.
<b>VDU Switching</b>	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.
<b>On/Off</b>	Main switch is provided on the front panel of the console.
<b>Grand Masters</b>	Two Grandmaster faders are provided, plus a programmable Blackout button for 'Blackout' or 'Stop'.
<b>User Programmable Keys</b>	7 additional keys are available for user programmable functions

**Technical Specifications**

<b>Supply voltage</b>	100V - 240V 50/60Hz, autosensing	
<b>Processor</b>	520	Intel® Pentium 133 MHz
	520i	Intel® Pentium Pro 200 MHz
<b>Memory</b>	520	8Mb RAM, Internal 1Gb Hard drive
	520i	16Mb RAM, Internal 1Gb Hard drive
<b>Archive memory</b>	3.5" floppy disk (DOS) or Hard Drive	
<b>Control Capacity</b>	520	100 to 1500 intensity channels 100 to 500 moving light/scroller attributes
	520i	100 to 2000 intensity channels 100 to 2000 moving light/scroller attributes
Channel and attribute capacity is defined by the GeniusPro or Lightpalette 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. Dimming channels may be converted to provide more attributes, but attributes cannot be converted into more channels.		
<b>Connections</b>		
	4	DMX512 outputs (512 dimmers per port. Shared with DMX input. See below) 5 pin female XLR
	1	Ethernet output 10Base T or 10Base 2
	1	AMX192 output (192 dimmers) 4 pin male XLR
	1	D54 output (384 dimmers) 3 pin female XLR
	1	DMX Input (shared with DMX outputs) 5 pin male XLR
	2	Handheld remote ports
	1	Parallel printer port 25 pin female D-type
	1	MIDI (In/Thru/Out)
	1	Dimmer Overtemp 4 pin male XLR
	3	Auxiliary RS485
	1	Analogue Inputs (12 0 to +10V) 15 pin D-type female
	1	Audio input shared with SMPTE Time Code, 10mV to 10V balanced 3 pin female XLR
	1	Keyboard
	2	VGA monitors (4 optional on 520i) 15 pin female D-type high density
	1	Power inlet: IEC320 (male)
	1	Power outlet: IEC320 (female) 4A max
<b>Control inputs</b>	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.	

**Technical Specifications (contd)**

<b>Software</b>	<b>Operating Software</b>
	Each GeniusPro console require GeniusPro™ OS or Lightpalette™ OS providing control of 100 intensity channels and 100 scroller/moving light attributes. Capacity can be increased by 50 or 200 channel increments.
	<b>Application Software</b>
	Control capability of the console can be expanded with optional application programs including:
	Tracker
	CommuniquePro Networker Server
<b>Printer</b>	Support for Epson FX, IBM Proprinter, HP Deskjet, HP Colour Deskjet, HP Laserjet, and ASCII are included in Operating Software.
<b>Standards</b>	UL, cUL (75AJ)
<b>Compliance</b>	EMC emissions to EN50081-1, EN55014; EMC immunity to EN50082-1, IEC1000-2-2 Safety: EN60950, EN60439 Part 1 (also part 12 BS5486);

**Environmental Data**

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

**Mechanical Data**

<b>Construction</b>	Galvanised sheet steel and aluminium extrusion. Flame retardant ABS controls.			
<b>Dimensions and Weight</b>				
	<b>length</b>	<b>depth</b>	<b>height</b>	<b>weight</b>
520/520i	780mm 30"	525mm 20"	150mm 6"	25kg 55lb
<b>Shipping Data</b>				
	<b>Packed Volume</b>	<b>Packed weight</b>		
520/520i	0.227 m <sup>3</sup> 8 cu. ft.	30 kg 66 lbs		



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