



P R O D U C T D A T A

Genius Plus™ Operating Software

Genius Plus operating software provides the primary functionality for the Strand 430, 530 and Strand 550 high-capability console hardware platforms. Available as a 100 channel starter pack and 50 or 200 channel incremental channel upgrades, Genius Plus provides a maximum of 350 intensity channels (plus 250 attributes) for the Strand 430 and 1500 intensity channels (plus 500 attributes) for the Strand 530 and Strand 550. Operations manual and software is supplied with a choice of languages.

Cat. No. Description

67311	Genius Plus Operating software (100 channels)
67511	50 channel expansion software
67513	200 channel expansion software

Associated Software

Alternative Operating Software called Lightpalette™ provides similar functionality to Genius Plus, but with an operator interface pre-configured to the Strand Lightpalette 90 method of operation (available end 1995).

Application software is available to add optional functionality to Genius Plus or Lightpalette operating software if required. All software packages are described in separate data sheets. Current application software includes:

- **Communiqué Plus™**

An application to Genius Plus adding communications protocols that operate with other DMX consoles, remote controls, and central 'event' controllers. Includes MIDI and MIDI Show Control facilities.

- **Networker™**

Application software for remote colour monitors, remote control and DMX distribution. Includes an Ethernet card for the console, and requires Strand SNI00 nodes.

- **Tracker™**

Multi-attribute control of any DMX automated lights, scanners and scrollers using the additional wheels and tracker ball controls on the console.

- **Off-line Editor**

A program to prepare memories and system configurations on a remote PC (available end 1995).

All Strand's Software is secured by factory issued passwords

6.6.2

S O F T W A R E

GENIUS PLUS™ Operating software for Strand 430/530/550 consoles

- Operating software for Strand 430 and Strand 530, 550 consoles
- Upgradable at any time for increased capacity or functionality
- Custom-configurable operating software with direct-action or command line operator interface
- GeniusPlus provides basic lighting control operation and special effects for 100 intensity channels plus 100 scroller/moving light attributes (additional application software is required for integrated moving light control)
- Channel upgrade packs available in 50 or 200 intensity channel blocks to reach desired maximum capacity
- GeniusPlus supports English, French, German, Spanish, Italian and Swedish language displays
- Supports single or twin playback operation, single or dual VGA monitor displays, 6 pages of individually programmable submasters (independent or inhibitive), additional 6 Supermasters for custom function mastering, 10 separate effects playbacks, and macros
- Application software is available for remote control, networking, moving light attribute control, and off-line editing - see separate data sheets

Genius Plus Features**General**

VGA colour monitor outputs	1 or 2, user selectable
User definable channel numbering	1 - 9999
On line prompts and help screen	✓
Real Time Clock and Date on screen	✓

Console Displays and Softkeys

Current status information	Channel, cue, submaster, effect
Macro labels	Macro number
Supermaster labels	Function description
Playback status	Cue and fade progress

Capacity

Channels/Attributes (Strand 430 console)	Max 350 dimming / 250 attributes (dimming channels can be converted to more attribute channels) 100 / 100 150 / 150 200 / 200 250 / 250 300 / 250 350 / 250
Channels/Attributes (Strand 530/550 consoles)	Max 1500 dimming / 500 attributes (dimming channels can be converted to more attribute channels) 300 / 250 350 / 250 400 / 400 to 700 / 400 800 / 500 to 1500 / 500
Channel Extension sizes (up to maximum of console)	50 dimming + atts. (as applicable) 200 dimming + atts. (as applicable)
Mux outputs	max. 1536 (console) or, max. 2048 (with optional Networker software and SN100 nodes)
Cue memories	2000
Part per cue*	12
Submaster memories and pages	Strand 430, 530: 30 x 6 Strand 550: 54 x 6
Macros, user programmable	999
Effects memories	99
Effects playbacks	10

*Each part counts as one cue memory

Intensity Channel Control

Lists using: +, -, THRU	✓
Lists using mixed Channels, Cues and Submasters	✓
Levels using @, ON, FULL, +10%, -10% and wheel	✓
Level setting by two digits (per-cent) or one digit (decimal)	✓
Command line or direct entry action (user selectable)	✓
Proportional or Shaft wheel control	✓
UNDO @	✓
REM-DIM, SOLO	✓
BUMP UP/DOWN	✓

Colour Attribute Control

Select intensity channels for direct colour control	✓
Frame selection by +FRAME/ -FRAME keys	✓
Direct entry by @ATT, keypad and wheel	✓
User programmable max. frame numbers	2 - 255
Frame number showing on "+" screens	✓
Last Action control across playbacks and submasters	✓
Unaffected by Grand Masters or Blackout	✓

Direct Dimmer control

Lists using: +, -, THRU	✓
Levels using @, FULL and wheel	✓
Selected dimmer level shown on monitor wheel bar	✓
Dimmer levels shown in patch screen	✓

Recording Cues / Submasters

Tracking and non-tracking modes	✓
"Block" and "This cue only" softkeys when tracking	✓
Fade modes recorded with cue	Automatic, Manual time, Manual level
UP / DOWN fade times (cues and submasters)	✓
UP / DOWN delay times	✓
WAIT time	✓
LINK / LOOP / Subroutines	✓
Cross / Move and All fades	✓
CALL macros, start or stop effects	✓
Record output	✓
Record time only	✓
Record minus submasters	✓
Record NEXT Cue	✓
Cue numbers 1.0 to 999.9 (max. 2000 cue parts)	✓
Cue RENUMBER function	✓
Cue 0 is a blackout intensity cue	✓
UPDATE Cue	✓
UPDATE Submaster	✓
Submaster quickload function	✓
Over-record warning	✓
UNDO record	✓
Memory Lock function	✓

Automatic Playback

Programmable playback modes	Single, Dual HTP, Dual LTP and Split Single*	
Simultaneous up and down fades		100
Fade rate override with wheel		✓
Rate override of upfades, downfades or both		✓
Fade time override with faders		✓
Fade level override with faders		✓
Programmable CUT time		✓
Programmable BACK time		✓
Fade progress display on LCD display		✓

* HTP = Highest level takes precedence. LTP = latest action takes precedence.

Submasters

Submaster memories x pages	30 x 6 (Strand 430/530), 54 x 6 (Strand 550)	
Inhibitive submaster memories	30 x 6 (Strand 430/530), 54 x 6 (Strand 550)	
Independent submaster memories	30 x 6 (Strand 430/530), 54 x 6 (Strand 550)	
Supermaster functions	Submasters, Submaster flash keys, Effects, DMX Input, Audio, MIDI (functions are user-selectable on all submasters)	
LCD labels for each Supermaster		6
Programmable or manual fade time per submaster and page		✓
Flash pile-on / SOLO modes		✓
Flash momentary / latch mode		✓
Macro triggered by submaster		12
Sound-to-light control of submaster		1
External submasters		12
DMX IN channel master		✓
DMX IN dimmer merge master		✓

Effects

Effects memories		99
Steps per effect		99
Quick record of next step	Output and Preview screens	
Forward, reverse, bounce		✓
Chase, Build, Cycle, Flicker, Random, Audio, MIDI		✓
Effects start/stop in cue sheet		✓
Direct action effect Direction and Type override		✓
Direct action step time override with wheel		✓
Effect fade in/out time override with wheel		✓
Update live effect		✓
Audio / MIDI sensitivity control with wheel		✓

Macros

User programmable macros		999
Key presses per macro		32
Start-up macro		1
Macros triggered by keypad selection		all
Macros triggered by hand held designer's remote		all
Macros triggered by cues in cue sheet		all
Macros triggered by submasters		12
Macros triggered by external +10V signal		12
Macros triggered by date and time		✓
Macros triggered by audio input		1
Macros triggered by configurable MIDI input		1
Macros triggered by configurable serial ASCII input		1

Grand Masters and Stop (Blackout)

User Grand Master groups		✓
User Stop (Blackout) group		✓
User Stop (Blackout) functions	Stop/Blackout/disabled	

Patches

User definable channel numbering		1 - 9999
Patches in active memory		2
Mux outputs (intensity and attributes)	Console: 1536 (1024 if DMX In is used) Network: 2048 plus 512 plus 512	
DMX In	(with Networker software and SNI00 nodes)	
Proportional scaling per dimmer		0 - 200%
User default scale factor		In setup
Non-dim trigger level		1 - 99%
User default non-dim trigger level		In setup
Default patch function		All or partial
Scroller setup in PATCH		✓
User max. scroller frame number		2 - 255

Show Storage & Retrieval

Formats new HD floppy disks		✓
Fast-save key on console surface		Softkey
Can read cues, subs and effects individually or in blocks		✓
Can read patches, set-up & macros		✓
Automatic backup copies of show on 3.5" disk		✓
Full show storage as Hard drive		✓

Setup Functions	
Languages displayed	English, German, French, Spanish, Italian or Swedish
Displays	1 or 2
Channel display formats	Genius, Lightpalette, Gemini, Galaxy
Channel control modes	Direct action double digit (%) Direct action single digit (points) Command line double digit. (points)
User ON level	0 - 100%
Playback fade types	Default to Crossfade, Movefade
Playback fade up/down times	Default to 0.0 to 59:59
X playback delay up/down times	Default to 0.0 to 59:59
X playback wait time	Default to Off, 0.0 to 59:59
X playback back fade time	Default to 0.0 to 59:59
X playback cut fade time	Default to 0.0 to 59:59
Submaster recorded up/down fade times	Default to 0.0 to 59:59
Effects step time	Default to 0.0 to 59:59
Buzzer volume	Off, low, medium, high
LCD contrast	0 to 100%
LCD backlight	0 to 100%
Wheel mastering	Proportional or Shaft
Wheel sensitivity	slow, medium, fast
Set time and date	✓
Time format	24 hour or am/pm
Date format	DD/MM/YY or MM/DD/YY
Patch default scale factor	0 to 200%
Patch default non-dim trigger level	0 to 100%
Patch default colour frame number	2 to 255
Printer type Epson	FX-80, IBM Proprinter II, HP Laserjet II (PLC3), ASCII (Parallel Port)
Printer paper size	8½" x 11" or DIN A4
RS-232	Baud rate, data bits, stop bits, parity
MIDI channel number (Communiqué only)	Off, 1 to 16
External submaster voltage scaling	80 to 120%
AMX/D54 scaling	80 to 120%
Power up macro	1
At Time Macros	4
Activation of At Time macros	Day(s) of week, Start time/date, repeat activation interval, stop time/date for repeat activation
Restore output level on loss of power	on/off

Input / Output Control	
Dimmer data Mux output - DMX512, AMX192, D54	✓
Simultaneous digital and analogue Mux outputs	✓
RS-232 for handheld remote	✓
Parallel port for printer	✓
MIDI time clock for effects step control	✓
Audio for effects step control & submaster sound to light	✓
Dimmer over temperature	✓



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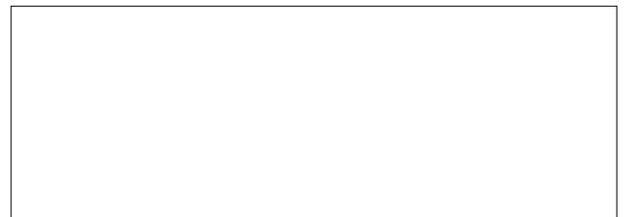
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