

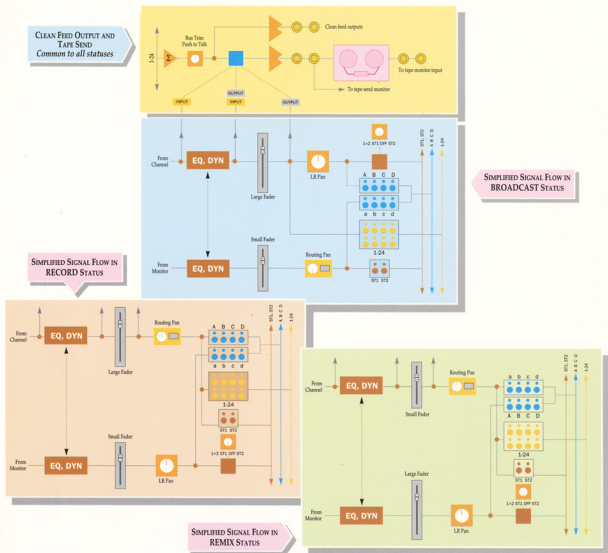


SL 8000 GB

ON-AIR PRODUCTION
AND MULTITRACK CONSOLE

Solid State Logic

SL 8000 GB ON-AIR PRODUCTION AND MULTITRACK CONSOLE



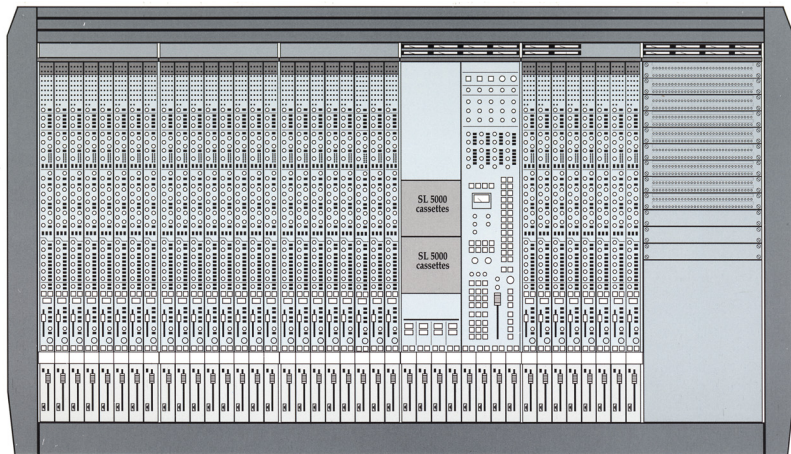
THE SL 8000 GB CONSOLE IS A DEVELOPMENT OF SSL'S award-winning G Series Multi-Format console. It has been designed specifically to provide a high level of functionality as both an on-air production desk, and a multitrack mixer. The mono and stereo I/O modules provide both the renowned sound quality and signal processing of a G Series console, with additional functions tailored to meet on-air broadcast requirements. A comprehensive master control section adds to this operational versatility. Master Status switching, for example, allows the console to be quickly configured for on-air production – with or without multitrack back-up – including up to 24 mono or 12 stereo clean feed mixes. The console can as easily be configured for multitrack remixing and over-dubbing.

Signal paths and console status

Central to the versatility of the SL 8000 GB is its ability to switch status according to the current operational requirements of the user. There are three main console statuses. These are: *Broadcast*, *Remix* and *Record*.

- **Broadcast** is intended for on-air applications. Microphone inputs are selected to feed the large fader, which in turn can be routed to the subgroup, main and multitrack busses, to provide clean feeds. The multitrack tape machine (if used) is fed directly by either the pre- or post-fade microphone signal. The multitrack can be monitored via either the Check Tape buttons on each channel, or via the small faders and one of the outputs.
 - **Remix** feeds the tape return through the large fader, to the main outputs, via the stereo routing switch, or stereo subgroups.
 - **Record** feeds the microphone input through the large fader, to the multitrack routing. The small fader is used as a monitor fader.
- There are three secondary statuses – *Fader Reverse*, *Master Input Flip* and *Bounce*.
- **Fader Reverse** is only available in Record. This swaps the large and small fader position in the signal path.
 - **Master Input Flip** reverses the channel input selection on all channels.
 - **Bounce** is used for track bouncing. It reassigns the multitrack routing to the path fed by the tape monitor input.

PRINCIPAL FEATURES



- Four stereo subgroups and two stereo output busses, all accessible from either signal path, plus full 24 track routing

- Up to eight VCA control groups

- Separate tape send output on every channel, with source selectable from channel input, post-fade signal or multitrack bus output. Check Tape control allows instant monitoring and metering of Tape Return signal

- Dedicated full bandwidth clean feed output on channels 1-24. Each output has individual talkback switching and level control

- Master Status switching to quickly reconfigure console for Broadcast, Record or Remix

- One stereo and four mono aux sends

- In-line channel strip with dual signal paths, filters, four band parametric equaliser and dynamics section

- Choice of mono and/or stereo modules

- Wide range of meter types, including VU or PPM, LCD bargraph, or 200 segment plasma bargraph

- Solo Modes switchable between PFL, AFL and destructive Solo In Place

- Status Lock mode locks master statuses and disables all global functions which could interfere with the main outputs

- Four stereo echo returns, assignable to either or both main outputs

- Integral bantam jack field using Mosses and Mitchell jacks to provide access to all console inputs/outputs and insertion points. Remote and 1/4" jack fields also available

- Power supply system incorporates on-line redundancy

- P&G conductive plastic faders

- Sealed conductive plastic pots

- Wide choice of frame sizes, layouts and module configuration

MONO CHANNEL

Routing from both signal paths to main and subgroup busses

Routing to 24 multitrack/clean feed busses. Multitrack busses can be fed from either signal path depending on console and module status. In Broadcast mode, feeds can be globally switched pre- or post- large fader. Post fade signal is selectable pre- or post-pan pot

Pan control for secondary path

Transformerless mic input with individual 48V phantom power on/off switching; 74dB switchable gain range. Optional transformer balanced mic input for use in mobile applications. Mono line input with 20dB trim and centre detent at unity gain. Phase reversal operates on all channel inputs



Expander/gate

Dynamics can be switched to main or monitor paths, either pre or post eq. Optionally "CH OUT" switches the dynamics to the clean feed output

Hi (18dB/octave) and lo pass (12dB/octave) filters - frequencies sweep from 20-350Hz and 3-20kHz respectively

Four band fully parametric equaliser

Channel insert switch can be switched pre-equaliser. Insert is normally in main channel path

Compressor/limiter



One stereo, four mono auxes

A dedicated bus output is provided for use as a clean feed, with talk-back injection via a momentary push switch on the bus trim pot and from an external intercom system

Group AFL button provides an instant check on the clean feed output from channels 1-24

Monitor Tape Send button switches the small fader source from Tape Return to Tape Send

Routing from main pan pot to main stereo busses



Main pan pot can feed to one, both or neither of the main output busses via routing switch

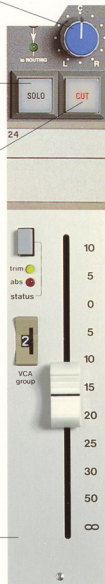
Channel Solo switch can function as AFL, PFL or destructive solo, depending on console solo mode

Channel Cut switch

Multitrack send can be sourced from channel input, immediately pre-fade (ie. post eq and dynamics), post-fade or from multitrack bus

The Check Tape button provides an instant check on what is being recorded to a particular track of the tape machine by forcing the channel meter to Tape Return and routing the Tape Return signal to the monitor speakers via the AFL bus

P&G fader with thumbwheel assignment to eight VCA group faders

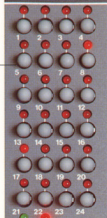


STEREO CHANNEL

Routing to stereo subgroups



Routing to multitrack/clean feed busses. Multitrack feeds can be stereo or summed mono (specified when ordering) and can be switched pre- or post-fade



Routing to main outputs



Line input with stepped ± 20 dB and continuous ± 5 dB gain controls, M/S decoder, phase reverse switch for both legs, balance control



Stereo compressor/limiter



Expander/gate



Hi and lo pass stereo filters as per mono channel



Three band stereo parametric equaliser



Insert point can be switched pre eq, post eq or post fader



One stereo, four mono aux sends



Meter source selection (left/right/loudest) for consoles fitted with mono channel metering



Machine control switches can be interfaced with fader open for fader starts etc.



Image control - varies both the stereo width and image position.



Solo Isolate, PFL, Solo and Cut buttons



24



P&G fader with thumbwheel assignment to eight VCA groups

CENTRE SECTION

Centre section can be 8 faders (four subgroups plus four VCA groups) or 12 faders (four subgroups plus eight VCA groups) wide. Eight-wide centre section has space for up to eight SL 5000 Series cassettes; the twelve-wide section for up to twenty-four. Any SL 5000 Series cassette can be fitted in these spaces, allowing additional stereo compressor/limiters, external source selectors, mic amps etc, to be added to the system.

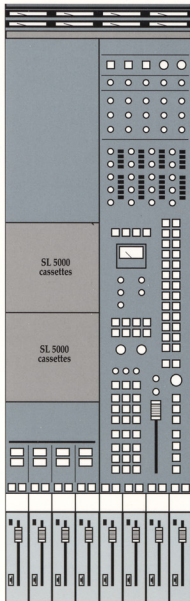
Standard Features include:

- Four stereo echo returns, with routing to either or both main outputs.

- VCA Trim control allows master adjustment of VCA fader gain structure to change the operating level of the console.

- Communication switches route the internal console mic (or external microphone input) to studio headphone or loudspeaker outputs, multitrack tape sends, main outputs or to switched talkback output. RTB Enable routes incoming RTB (line or mic level) to Mini loud-speakers. RTB level controls allow two RTB sources to be mixed together.

- Four stereo subgroup faders, AFL and Cut switching plus routing to either main or secondary outputs. Routing is locked by Status Lock to avoid accidental de-assignment while on air. Eight mechanical PPM or VU subgroup meters are included as standard - LCD or plasma bargraphs may be specified if required.



- Left, Right, Mono and Phase mechanical VU or PPM meters (optionally LCD or plasma bargraphs) switchable to either Output or to Follow Monitor.

- Oscillator with switchable frequencies, calibrated and adjustable level controls. Routing to multitrack and main outputs.

- Separate talkback level controls to SLS, headphones and Slate bus.

- Aux master controls with high and low frequency shelving equaliser.

- Metering for aux and SLS outputs.

- Three stereo headphone outputs plus stereo studio loudspeaker feeds.

- Eight stereo external sources plus monitoring for aux busses, with separate source selectors for control room and studio feeds. Expandable via additional SL551 source selectors.

- Stereo monitor outputs with Cut and Dim adjustable control. Mini loudspeaker outputs for secondary monitors. Monitors can be sourced from either of the main outputs or from the control room external source selector.

- Main output master fader and compressor, plus rotary level control for secondary output. Switching allows secondary output to follow main output fader level.



Solid State Logic

Begbroke, Oxford, OX5 1RU, England • Tel: (0865) 842300 • Fax: (0865) 842118
1 rue Michel Faraday, 78180 Montigny le Bretonneux • Tel: (1) 34 60 46 66 • Fax: (1) 34 60 95 22
Via Pirandello 17, 20099 Sesto San Giovanni, Milan • Tel: (2) 262 24956 • Fax: (2) 262 24938
Rinaldenstrasse 104, 6100 Darmstadt 12 • Tel: (6151) 938 640 • Fax: (6151) 938 645
320 West 46th Street, New York, NY 10036-6398 • Tel: (212) 315 1111 • Fax: (212) 315 0251
6255 Sunset Boulevard, Los Angeles, CA 90028-7411 • Tel: (213) 463 4444 • Fax: (213) 463 6568
3-55-14 Sendagaya, Shibuya-Ku, Tokyo 151 • Tel: (03) 5474 1144 • Fax: (03) 5474 1147

©Solid State Logic Ltd.

8256A481