www.solidstatelogic.com

The new studio standard

Large-format analogue console with advanced DAW control

Duality SE. This is SSL.

Solid State Logic
SOUND || VISION

The new studio standard

Welcome to the world of Duality SE, the large format analogue console designed for the modern studio environment.

Installed in some of the world's most prestigious studios, Duality SE allows producers and engineers to harness the clear sonic advantages of SSL SuperAnalogue™ processing within a console that features advanced DAW integration and control.

- **The analogue console for the modern studio**
  Full analogue console with latest generation SuperAnalogue™ technology
- **Complete SSL analogue processing suite**
  SuperAnalogue™ & VHD Mic Pres, E & G Series EQs, Dynamics and Master Bus Compressor
- **Unprecedented levels of constant visual feedback**
  Full TFT metering for every channel bay
- **Integrated console processing within the DAW signal path**
  Innovative SPLIT channel signal path architecture
- **Fully equipped for multichannel production**
  Multiple Stereo buses and full 5.1 functionality
- **Ethernet connected multi layer control of all major workstations**
  Controls two DAWs simultaneously
- **Channel switch automation**
  Cue, FX, EQ, Cut and Insert switches can be automated

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Featured installations

Germano Studios
New York

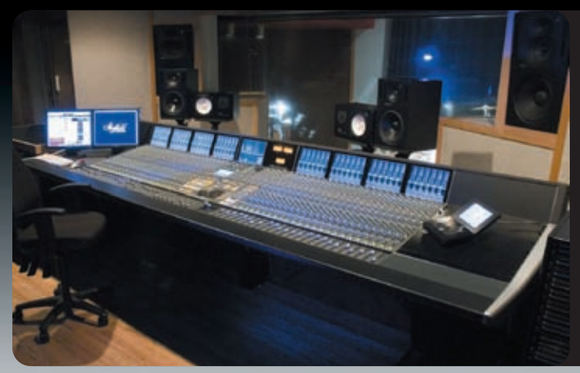
“Duality offers the quality sound of the flagship SSL analogue consoles combined with the on-console control of our Pro Tools® systems.”

Troy Germano

Grabaciones Silvestres
Sant Quirze Safaja

“For the most part it’s the analogue signal paths that do it for me, but it’s also great for the transport and DAW controls it offers. Ultimately Duality adapts perfectly to the way we work in terms of concept and design.”

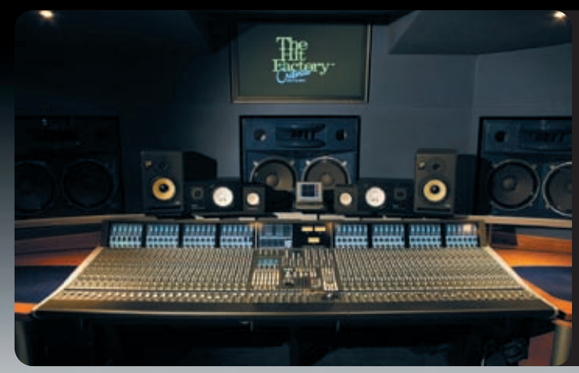
Marc Parrot



Sheffield AV Studios
Phoenix, MD

“It is all very well thought out...a genius product in my estimation, in the way they’ve melded the analogue and DAW worlds. And the console sounds awesome.”

Drew Mazurek



The Hit Factory Criteria
Miami

“The ability to use the Duality as a 48 channel analogue console one moment and a 32 channel DAW controller the next is a huge plus.”

Janice Germano

Baltic Recording Studios
Bornholm

“What used to be time consuming ‘desk jobs’ are now handled with a few button pushes. We’ve had great results with making templates for different types of projects...now it’s just a question of loading a template and we’re ready to go.”

Jesper Mejlvang

Fenix Studios
Varnhem, Sweden

“In terms of our workflow, Duality has changed everything. We used to do everything inside the DAW, but now we have found the sonic superiority that’s possible using analogue EQ and compression.”

Lars Hallbäck

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The Duality channel bay

Input

Duality features are two independent Mic Pre-amplifiers on every channel, allowing you to choose from the unrivalled purity of SuperAnalogue™, or the creative possibilities of Variable Harmonic Drive (VHD)™. The VHD™ circuit introduces controlled 2nd or 3rd harmonic distortion to add warmth or grit. Line level signals can also be fed into to the VHD™ circuit post recording for artistic experimentation. Both inputs offer 48V Phantom Power, Phase and Pad switches.

Dynamics

The classic SSL Dynamics Channel features three sections; the Compressor (switchable between traditional RMS and more modern Peak Sense modes), the Gate (with variable Hold time) and the Expander. There is also a Side Chain Listen feature for full creative control.

5.1 Panner

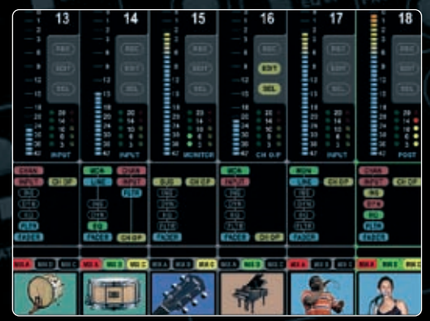
Offering the most comprehensive analogue surround panning ever seen, in addition to standard Left/Right pan, every console channel features separate controls for Front/Rear positioning, a dedicated LFE send and an LCR divergence control.

EQ

Duality offers a 4-band, twin-curve SuperAnalogue™ EQ design, switchable between E Series operation and G Series curves and control interaction. The HF and LF bands feature a Bell curve option to allow a fixed Q parametric response. Additional HF and LF filters complete the EQ section. Flexible routing options allow the channel processing elements to be re-ordered to a wide variety of configurations.

Solo + Cut and Fader

Control your traditional analogue channel level, your DAW's channel faders or both at the same time! Through SSL's unique approach, Duality offers unrivalled integration of today's DAWs within the analogue console paradigm. You can even control the analogue mixer and the DAW mixer simultaneously. Many DAW functions such as plug-ins can 'flipped' onto the faders for enhanced real-time control. Duality features high quality motorised faders with 'fader linking', Automation activation, and DAW function display. EQ, CUT and INSERT switches respond to station automation.



Channel TFT Screens

The amount of visual feedback provided by the console's large innovative TFT meter bridge screens is unsurpassed. Featuring Level display (for both console and DAW channels), Track Bus Routing assignment, Channel Processing order, Mix Bus assignment, DAW Channel Status indicator (REC READY, SELECT, EDIT), and Dynamics metering (for both Gain reduction and Gate). A new innovation, SSL's unique Eyeconix system allows operators to place images of their choice onto the meter bridge, aiding track recognition and enhancing workflow.

CUE & Sends

Each channel has a dedicated Stereo CUE send, and four mono FX sends. An innovative and flexible EFX feature reassigns control knobs away from their normal function and allows replication of small fader functionality with Channel Direct Output, Track Bus level control, and CHOP (channel output) sourcing for latency free monitoring and sends.

Mix Reassign Matrix

A powerful and extremely useful tool, allowing assignment of the CUEs (A+B) and Track Buses 1-24 to the main mix, which doubles up the number of inputs on Mixdown or Monitor Returns while recording. A unique Stereo Downmix panel allows complete control of the "fold down" of a multichannel 5.1 mix to Stereo, allowing the operator to seamlessly move between surround and a Stereo mix. Further 5.1 enhancement is provided by the inclusion of LFE filter frequency selection ideal for cross platform 5.1 work.

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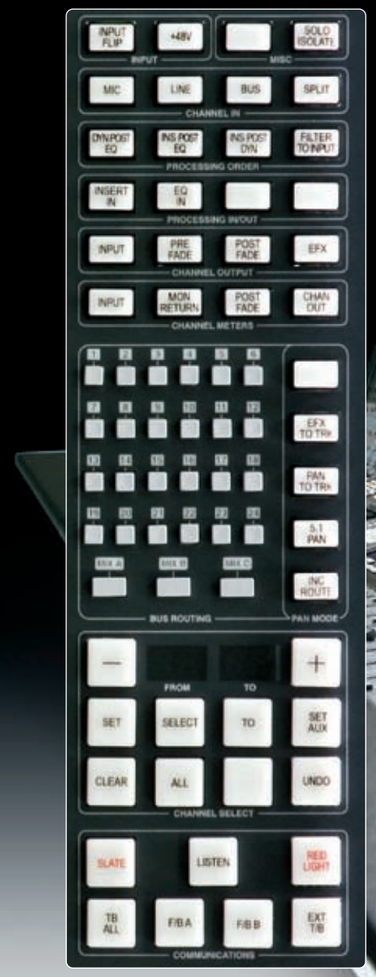
Centre Section and Routing

Duality SE features a comprehensive and elegantly organised mix environment control section that enables the operator to set up and manipulate routing, monitoring and transport from a single location.

Centre Section

The fully-featured centre section includes:

- Trackball, Group + Master Faders, DAW Transport & Numeric Location panel
- Comprehensive monitoring section with external feeds and full monitor speaker calibration options, Oscillator and Noise Generator
- Talkback Mic and associated communications switches
- Main Output Bus functions (eg. Inserts, Summing, Mix Bus reassign etc.)
- Four dedicated Stereo returns
- Classic SSL Main Bus Compressor (both Stereo & 5.1)
- Master controls for Track, Foldback and CUE/ FX buses
- Centre section TFT Metering
- Dedicated VU meters and moving coil phase meter
- DAW control TFT displays shows DAW status and plug-in parameters
- Four encoders and five buttons assignable to DAW functions
- Plug-in parameter control can be ‘flipped’ to faders



Routing Tile

The central Routing Tile provides centralised control of channel routing, signal processing order, and other facilities for a selected channel or across multiple channels. Selections can be a contiguous range or a selection of individual channels whose states can be controlled together. The Routing Tile provides a speed and comfort of operation not previously seen on an analogue console and allows the operator to stay in the central monitoring ‘sweet spot’ while having full access to channels positioned away from their reach.

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Configuration and options

Duality SE is a self-contained system with no remote power supplies. Because the console is convection cooled the frame is not fitted with cooling fans. Consoles are available fitted with 24, 48, 72 or 96 channel strips.

Total Recall and Automation
Now included as standard

SSL's unique TotalRecall™ system uses patented control technology to enable the operator to quickly and accurately manually return the analogue controls of the console to a snapshot of stored settings. TotalRecall™ is can be specified at time of order or can be retro-fitted.

Producer Table
A producer's section may be specified. This is 600mm (23.6") wide and has a flat, full depth table.

Patch + 19" Racking
Integral 19" rack sections with 12U of rack space are available as an option. These may be used for outboard effects units or to house the optional bantam patchbay. This can be fitted internally to the console frame or may be remotely mounted by the studio facility.

Console Splits
Creating curved console configurations can be achieved through the addition of corner sections.

Speaker shelves
A flat shelf that fits over the top trim of the console, suitable for the placement of near field monitors can be retro-fitted to existing consoles without modification.

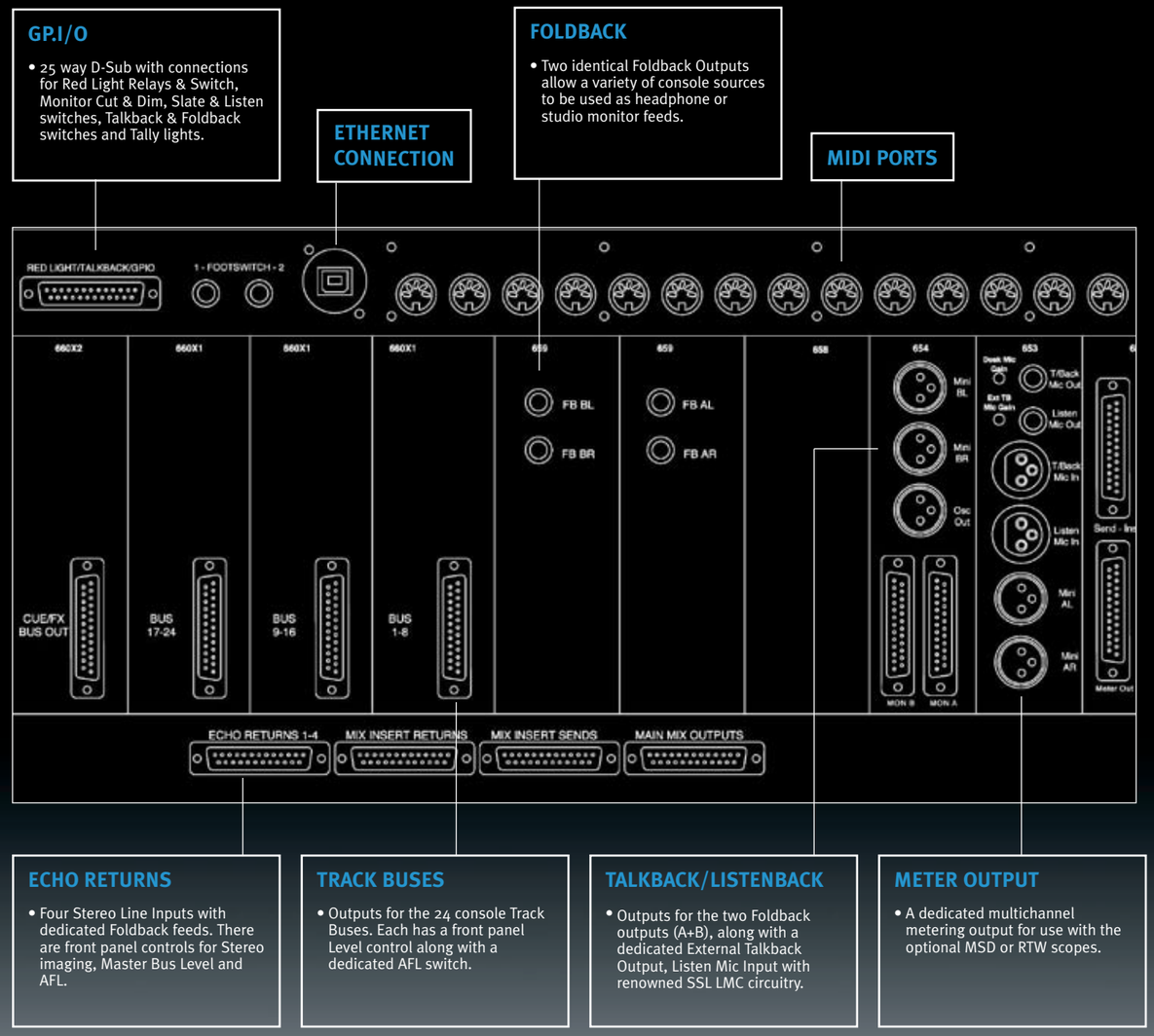
TFT Monitor arm
The Duality TFT monitor arm attaches to the rear of the console and holds either one or two monitors. It is the most elegant way to securely position your preferred DAW monitor close the control surface.

Our Commitment to Customer Support
A great product is only the start of what sets SSL equipment apart. We believe that the world's best products demand the best support. To provide this, SSL has a network of sales and service centres throughout the world, including offices in New York, Los Angeles, Paris, Milan and Tokyo. Through these offices, and our distributors in other countries, a full program of backup and technical support is guaranteed.

Commissioning and Training
To ensure you get the most out of your Duality, our commissioning engineers will guarantee that your Duality works to the standard you expect from SSL. Our training will provide you with the skills and confidence to tackle the most demanding project.

SSL Extended Warranty & Support
When you buy a console, you have the right to peace of mind. You can maintain this reassurance beyond the factory warranty and protect your investment with an SSL Extended Warranty. This provides you with great cover and the ability to budget operating costs accurately and may cost less than you think. We offer a full range of spares, also available as packages and through our advance exchange service.

Rear connections



GP.I/O
- 25 way D-Sub with connections for Red Light Relays & Switch, Monitor Cut & Dim, Slate & Listen switches, Talkback & Foldback switches and Tally lights.

ETHERNET CONNECTION

FOLDBACK
- Two identical Foldback Outputs allow a variety of console sources to be used as headphone or studio monitor feeds.

MIDI PORTS

ECHO RETURNS
- Four Stereo Line Inputs with dedicated Foldback feeds. There are front panel controls for Stereo imaging, Master Bus Level and AFL.

TRACK BUSES
- Outputs for the 24 console Track Buses. Each has a front panel Level control along with a dedicated AFL switch.

TALKBACK/LISTENBACK
- Outputs for the two Foldback outputs (A+B), along with a dedicated External Talkback Output, Listen Mic Input with renowned SSL LMC circuitry.

METER OUTPUT
- A dedicated multichannel metering output for use with the optional MSD or RTW scopes.

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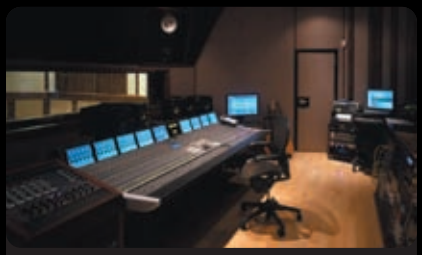
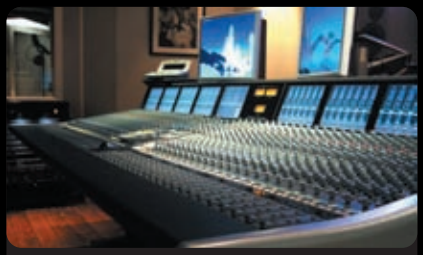
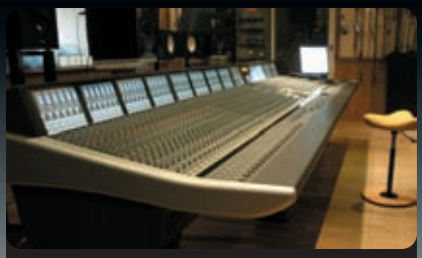
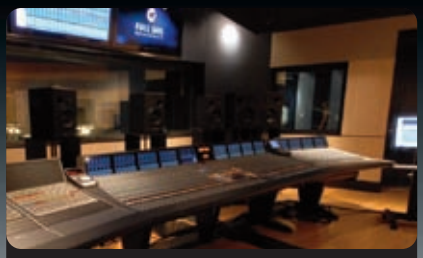

Archon, Los Angeles

2 Seas Studio, Bahrain

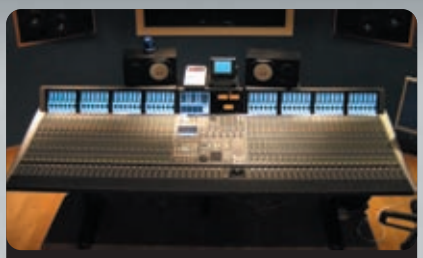

Barrera Productions, Paris

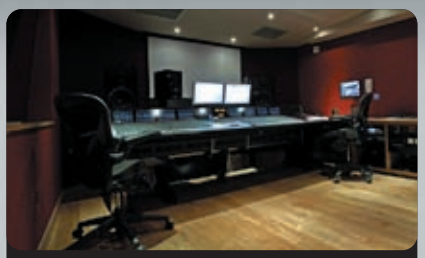

Audioworx, Netherlands


Full Sail Audio Temple, USA

Humber College, Toronto

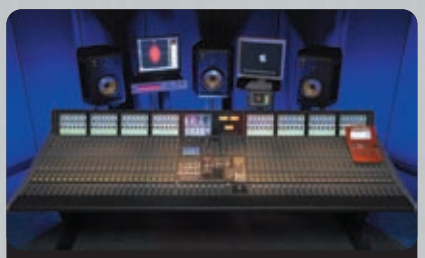
Studios Piccolo, Montreal


Maratone Music, Hamburg


Modern World, England

NHK CP-604, Japan

Nut Shed Studios, Ireland


Power Sound, Netherlands

Solid State Logic

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