Duality

Large-Format Analogue Console with Advanced DAW Control
The new studio standard

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

Installed in some of the world's most prestigious studios, Duality allows producers and engineers to harness the clear sonic advantages of SSL SuperAnalogue™ processing and the workflow benefits of advanced DAW control.

- The analogue console for the modern studio
  Full analogue console with latest generation SuperAnalogue™ technology
- Complete SSL analogue processing toolkit
  SuperAnalogue™ & VHD™ Mic Pres, E & G Series EQs, Dynamics and Master Bus Compressor
- Unrivaled levels of visual feedback
  TFT screens provide metering, process order, routing and Eyeconix™ for every channel
- Integrated console processing within the DAW signal path
  Innovative SPLIT channel signal path architecture
- Fully equipped for multichannel production
  Multiple Stereo busses and full 5.1 functionality
- Ethernet connected multi-layer control of all major workstations
  Controls two DAWs simultaneously
- Comprehensive analogue fader and switch automation
  Cue, FX, EQ, Cut, Insert switches and analogue faders can be automated
Duality. This is SSL.

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

Blade Studios
Shreveport
“Duality is perfect for the way we like to work and the sound quality is really impressive.”
Chris Bell

Abbey Road
London
“When we decided to open a new mixing and production facility, the engineers were adamant that they wanted an SSL Duality.”
Mirek Stiles

Trent Reznor’s private studio
Los Angeles
“Duality is perfect for the way we like to work and the sound quality is really impressive.”
Alan Moulder

Duality Pro-Station version with adapted centre section. Groups and DAW screen to the rear of the forward facing operator position on an articulated arm. Ideal for users who want to prioritise their DAW in their workflow.
The Duality channel strip

Duality. This is SSL.

**Input**

Quality features ten switchable Mic Preampers on every channel, allowing you to choose from the unrivalled purity of SuperAnalogue™ (SSL’s Super Analogue), or the creative possibilities of Variable Harmonic Drive™ (VHD™). The VHD™ circuit introduces controlled 2nd or 3rd harmonic distortion to add warmth or grit. DAW line level signals can also be fed into the VHD™ circuit to creatively colour and enhance sterile DAW stems. Both inputs offer 48V Phantom Power, Phase and Pad switches.

**EQ**

Duality offers a 6-band, mix curve SuperAnalogue™ EQ design, switchable between E Series (traditional EMI G Series) 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 HP and LP filters complete the EQ section.

Flexible routing options allow the channel processing elements to be re-ordered to a wide variety of configurations.

**Dynamics**

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

**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, Bus, Bus Level control, and CHOP (channel output) sourcing for latency free monitoring and sends.

**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. The faders control the analogue mixer where all inputs are simultaneously, many DAW functions such as plug-ins can ‘shine’ into the faders for enhanced real-time control. Quality features high-quality motorised faders, ‘fader linking’, Automation activation, and DAW function display, CUT, Fx, CUE, INSERT, and EQ switches respond to automation.

**5.1 Panner**

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.

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The amount of visual feedback provided by the console’s large innovative TFT meter bridge is unsurpassed. Featuring Level display (for both console and DAW channels), Track Bus Routing and CUE, 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.

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Centre Section and Routing

Duality 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 routing 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 operators to stay in the central monitoring ‘sweet spot’ while having full access to channels positioned away from their reach.

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.
**Configuration and options**

**Duality** is a self-contained system with no remote power supplies. Because the console is convection cooled it has no need of fans and is silent in operation. Consoles are available fitted with 24, 48, 72 or 96 channel strips.

**Total Recall™ and Automation**
SSL’s unique Total Recall system uses patented control technology to enable the operator to keep and accurately manually return the analogue controls of the console to a snapshot of stored settings.

**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 10U of rack space are available as an option. These may be used for remote faders or effects units to achieve the optimal function layout. These can be retro-fitted to existing consoles without modification.

**Angled Frames**
Creating curved console configurations can be achieved through the addition of angled sections at console split points.

**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 to 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 deserve 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 the console is set up correctly and is configured to your specifications. They will also 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 greater peace of mind if the ability to budget operating costs accurately and may cost less than you think. We offer a full range of options, also available as packages and through our advance exchange service.

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

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

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

**ETHERNET**
Connection

**TALKBACK/LISTENBACK**
Outputs for the two Foldback outputs (A+B), along with a dedicated External Talkback Output, Come Mix Input with internal SSL LMC circuitry.

**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 and switch for selection of AES, ADAT or AES.

**MIDI PORTS**