

sound evolution

S type

S-TYPE
COMPACT
LIVE
PRODUCTION
CONSOLE



S-TYPE COMPACT LIVE



The S-Type is Cadac's answer to market requests for a compact, flexible and cost-effective mixing console – ideally suited to the requirements of the PA rental companies, smaller repertory theatres, and for the corporate events and industrial sector. It offers a high quality specification contained within a compact, economical footprint, and is available as 17, 25 or 33-way frames.

The Cadac S-Type sits alongside a comprehensive line-up of high performance mixers, representing the company's 35+ years of console design – of which more than twenty have involved a dedicated focus on the live sound reinforcement market. The Cadac name epitomises a blend of innovative electronic design and excellence of audio quality, supported by reliable performance and service simplicity in the great British tradition.

Cadac consoles are built to endure, using the highest quality components, complemented by innovative electronic and mechanical designs. Design and test are all conducted at the company's comprehensive facilities in Luton, Bedfordshire, UK. In the field, a global network of Cadac dealers provides fast access to local technical expertise, complemented by Cadac's responsive help line service.

S-TYPE CONSOLE FEATURES

- Small, compact, cost-effective design
- Cadac audio quality and build at an economical price
- Ideally suited to corporate and industrial events, venues, repertory theatre and PA rental
- Totally flexible configuration, with Cadac's unique design to slot any module in any position
- Three frame sizes – 17-way, 25-way, and 33-way
- Expandable and linkable via optional bus connector



- **High Quality Microphone Amplifier**
An all-important contributor to setting the performance of any sound system.

The S-Type's microphone amplifier provides 60dB of gain and a 20dB pad for line level inputs, phase reversal and 48V Phantom power.



- **Full Range metering**
Fast, clear access to level and routing information via the S-Type's full range metering.

The input gain level is displayed on a 12-segment LED meter (stereo version shown) mounted adjacent to the channel fader.

The fast response meter is colour coded for quick visual interpretation and indicates from -36 to +18dB. Placed in the visible sightline, and combined with the 100mm P+G fader, instant feedback and control is available to the operator.



- **Sub Groups and Panning**
Flexible routing to aid creative mixes.

A variety of input channel options, plus enhanced sub group routing with a selectable and dedicated stereo bus, plus the ability to pan the signal across this bus.



- **Direct Output**
Variable facilities to maximise mix flexibility.

Both mono and stereo input channels feature a variable level direct output – providing a post fader signal such as required

for a multi-track recording. For further flexibility, additional switching allows the Direct Output to be selected PRE fader or POST microphone amplifier (in the case of the mono input channel), and post LINE input for the stereo channel.



- **EQ and VCA**
Group Assignment Assignment versatility across all functions.

The EQ can be bypassed or switched in to the signal path as required, and can also be selected to be PRE insert.

In addition, the S-Type is fitted with a fixed frequency high pass filter that is switch selectable.

The S-Type's flexible assignment facilities enable every input channel to be assigned to one or more DC (VCA) Master Group fader(s) as required –

simplifying the setting up of special control functions such as a Grand Master. The VCA masters can also be configured as Mute Groups.

PRODUCTION CONSOLE



■ Auxiliary Sends – 6 mono and 2 stereo

Breaking new ground for a compact mixer.

6 mono and 2 stereo Aux Sends reflect live performance demands for foldback and monitoring.

Sends 1 & 2 are dedicated stereo aux, with both level and pan control.

To aid the foldback allocation, all sends are individually selectable and each can be selected PRE fader.



■ Listen & PFL

Extended facilities for rapid assessment of input/output signals

The S-Type offers extended listen facilities for extra convenience. Monitoring can be through a loudspeaker or headphones, each with its own level control for comfortable

listening. Alternatively, it can be purely through visual indication on the dual-channel LED meter. The listen is independent of the signal format - whether mono or stereo, it will appear in both left and right channels as either a mono to both left and right, or a true stereo.

The PFL monitoring can be additive with the application of the HOLD key. When this is active, the required channel PFLs are manually selected and the signals are summed to the Listen Output. A single press on the CLR key clears the selection and Listen returns to the normal single channel PFL function.



■ Mono and Stereo Auxiliary Outputs

Project fine-tuning with variety of output channel options.

Both mono (module 8415) and stereo (module 8413) Aux Outputs Masters are available,

and can be combined to a maximum of 6 mono Aux Master modules and 2 stereo Aux Master modules per console.

Each Aux Master has its own full metering, providing at a glance the state of all output levels, plus Output Level control; MUTE and PFL selections.



■ Matrix Output with 8 Matrix Sends

Comprehensively specified at every level.

The Matrix Output features variable output level control with full range metering. In addition to the individual PFL and MUTE selection, a switchable INSERT is provided.

The Sub Group outputs can be re-mixed to the 8 matrix outputs, using the 4 dual concentric level send pots. Additionally, the Stereo Master output can be re-mixed to all matrix outputs as L-R pairs or summed mono.

Each matrix send has an ON switch to ensure that only the routing required is sent to the outputs.

The S-Type utilises fully balanced busses throughout, and is fully EMC compliant for low system noise. It is also available with a redundant power supply option



■ Stereo Master

Stereo control with flexible options

In addition to the groups, the S-Type features a dedicated Stereo Master with its own fader.

The output via XLRs, and the L & R inserts, via TRS jacks, are all located on the rear of the frame.

To provide even more flexibility, the stereo output can also be re-routed to the matrix outputs - either as a stereo pair or as a summed mono signal. This send can be selected pre-fader if required.

AN EXCEPTIONAL PERFORMER

The compact S-Type is highly specified, combining high quality facilities with exceptional audio quality and mechanical reliability. Cadac has paid close attention to delivering its customary superior sonic performance, which is achieved with the S-Type's high bandwidth audio path – with a low phase shift of $\lt;6^\circ$.

The S-Type's specification includes the same high quality mic input and full 4-band parametric EQ that were originally designed for the J-Type Live Production Console, providing an unequalled level of performance compared with competitive console designs.

COMPREHENSIVE FACILITIES

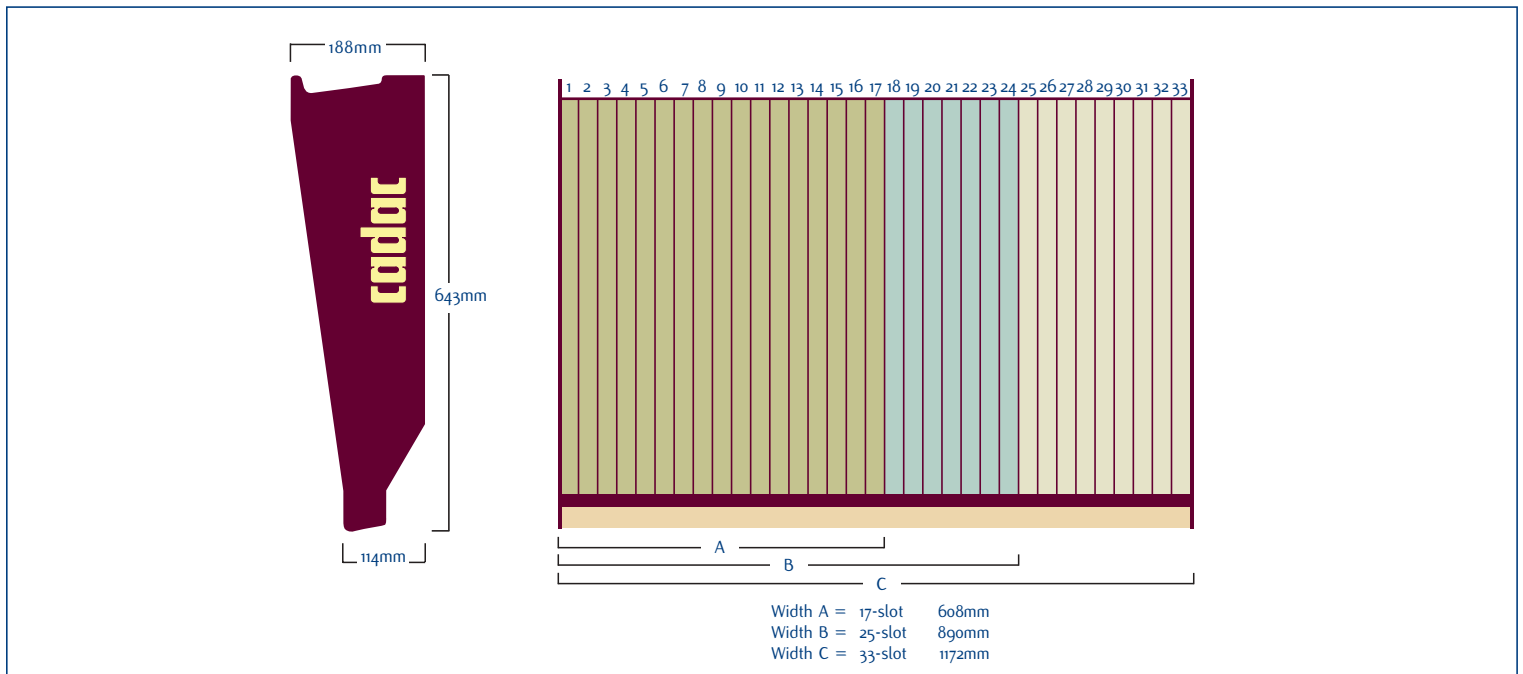
- Stereo Input channel with line Inputs
- a fully balanced Direct Output with level control
- 8 switchable POST and PRE fade auxiliary sends – two of which are stereo
- 10 x 8 Output Matrix
- inserts on inputs, sub groups and matrix
- fully assignable DC (VCA) masters
- comprehensive metering, with full range LED meters on inputs and outputs.
- full-size 100mm Penny & Giles faders

These facilities all underline the fact that despite the S-Type's compact size and economical price tag, this Cadac has been designed to offer total operational flexibility.

Flexibility is central to the S-Type's design. Multiple frames are linkable to make a larger format console quickly and easily, via optional bus connectors. As with all standard Cadac console designs, users can mix and match the S-Type's modules, moving them in the frame to suit a given requirement and giving complete configuration control.

A typical 25-way frame is configured with 16 mono inputs, 8 x group outputs, auxiliary outputs, matrix outputs and DC (VCA) Master faders, plus a Stereo Output/Talkback/Oscillator/Communications module.

GENERAL SPECIFICATION



FRAME

The S-Type is constructed from 1.6 mm Zintec, fixed to 4mm aluminium end profiles. This allows multiple frames to be positioned, so that modules are almost adjacent. Internal audio bussing is balanced and uses ribbon cables. All power bussing is also routed via ribbon cables. Frame-mounted inputs include diode-mixed power inlets, earth points, a headphone jack, bus expansion connectors, main stereo outputs XLRs, main stereo insert point jacks and Littlite XLRs. The frame also incorporates multiple cooling fans.

The three sizes of frame available comprise 17, 25 and 33 module positions. These allow for the standard configurations of 8, 16 or 24 input channels, 8 output groups and a Stereo Master/Talkback/Oscillator/Comms module. Alternatively, any combination of modules can be fitted. The only limits are a maximum of 8 output groups and 1 Oscillator/Comms module in a system. A system can comprise multiple frames. Each module may be located into any position

within the console frame to accommodate for personal preferences in layout.

CONNECTORS

Balanced XLR type connectors are standard for all inputs and outputs. Balanced TRS 1/4" jack sockets are used for insert sends and returns, plus the inputs on the stereo channel. An unbalanced TRS 1/4" jack socket is used for the external stereo input on the Stereo Master/Talkback/Oscillator/Comms module.

POWER SUPPLIES

Each S-Type console requires the following:

- ±18V for the audio electronics
- +13V for LEDs and relays
- +48V for phantom powering of microphones
- Input 110-240VAC, 1Φ

The 2U power supplies are suitable for rack-mounting or flight cases, and are connected via a shielded multicore cable with 6 pole military circular bayonet connectors at each end. Each

console may be powered from two independent power supply systems, operating simultaneously for continuous redundant operation.

FINISH

The front panels are stove enamelled, silk-screened and lacquered. The silk-screened legend is designed to withstand arduous operating conditions.

TRANSPORTATION

Custom-made flight cases are available for the S-Type console, as required.

STANDARDS

The S-Type is designed to the following standards:

- EN55103-1:1997
- EN55103-2:1997
- EN60065:1998



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