

# J-TYPE LIVE PRODUCTION CONSOLE

**cadac**  
SOUND EVOLUTION

# THE CADAC J - T Y P E

## LIVE QUALITY AND VERSATILITY

For any sound hire company or theatre, investing in a new console is a major step. Of vital importance is the console's ability to deliver the range of functionality required - both now and in the future - for each and every type of project. Flexibility is essential - enabling users to configure the desk to suit the job in hand, without compromise, and equally importantly, to combine this with intuitive operation during a performance. Sophisticated facilities need to be matched by exceptional reliability in the often-hostile conditions that are typical of live sound applications.

Cadac consoles have an impressive track record when it comes to delivering faultless performances night after night, year after year, on almost every imaginable type of production. For critical applications where quality is paramount, the Cadac name signifies top quality audio within a rugged, reliable package.

There is an impressive range of input modules to choose from for the J-Type, underlining its performance capabilities - users can combine the original mono inputs with the programmable dual input and stereo input channels to get the precise routing and mix required for every cue. This is complemented by the J-Type's versatile matrix - with up to 16 sub and 32 matrix group outputs.

The J-Type provides a sophisticated level of automation when supplemented by Cadac's Sound Automation Manager for Windows®, in conjunction with the programmable modules. The console's Central Control Module interfaces to a standard PC, with the Sound Automation Manager handling cue management, routing and VCA



automation - supported by comprehensive visual feedback of all routing and variable functions, including fader positions. For additional flexibility, all console programming for a production can be implemented off-line, porting to the on-line console PC via the Ethernet LAN.

The J-Type was the first console to feature Cadac's unique frame design, which allows users to put any module in any position, thus configuring the console to suit the project in hand. Each module is fitted with XLR connectors and jack sockets on the rear vertical face, enabling the module to be moved quickly and easily. For audio quality, the J-Type maintains the Cadac

Launched in 1992, the Cadac J-Type Live Production Console has gained a reputation as the world's leading console for major musical productions, based on its combination of exceptional audio quality, reliability and functionality. The industry standard in London's West End and on Broadway, the J-Type includes the world's most successful and longest-running musicals amongst its extensive credit list - Miss Saigon, Les Misérables, Disney's Lion King, Beauty & The Beast, Phantom of the Opera, Ragtime, Sunset Boulevard. The J-Type also has an exceptional track record for touring and fixed installations, highlighting the versatility of its design.

The J-Type has evolved considerably since 1992, in line with Cadac's continual investment programme. The introduction of a new set of programmable modules was a major advance, offering significantly enhanced automation facilities. Designed for use alongside existing J-Type modules, users can store and recall all pot and switch settings for each cue during a performance, including those of the routing, EQ and insert points. The programmable modules provide instant reset of all switch facilities and use nulling LEDs to assist with fast, manual reset of potentiometers - as pioneered by Cadac on the Concert Board.

Combining innovative design with meticulous engineering, the J-Type provides sound designers with the flexibility and reliability they need in a challenging environment.

# LIVE PRODUCTION CONSOLE

tradition for exceptional performance.

All of the inputs, insertion send/returns and outputs are electronically balanced, as are all audio mixing busses.

The J-Type Live Production console epitomises Cadac's innovative design approach.

## J-TYPE CONSOLE FEATURES

- Frame sizes to accommodate from 25 to 63 module positions
- Up to 4 mixer frames and 256 channels as a single system
- Any of the modules can be used in any position, in any of the frames.
- Performance flexibility with Cadac's unique programmable modules
- Recall all pot and switch settings on a cue by cue basis



- 16 Sub Group and 32 Matrix outputs
- 12 auxiliary group outputs
- VCA channel faders and Sub Groups can be controlled by any one of 15 DC Master faders
- Full talkback communications
- Central Control with Local Memory
- Oscillator/Pink Noise Generator/PFL system
- Dual power supply system
- Unique 120mm LED meter by the side of each channel fader
- 20 segment LED meter, reading over a range of 57db on all outputs
- Direct outputs on all channels, selectable Pre/Post faders
- Direct inject with level pots to sub group and matrix group mix busses



# THE GLOBAL SOUND OF CADAC

The Cadac name has been synonymous with top quality sound mixing consoles since 1968 - from its earliest designs for recording studios and broadcast applications, through to the latest sound reinforcement consoles. Cadac is the industry-standard choice for leading musical productions,

prestigious theatre installations, and the international touring circuit, underlining the breadth of the current Cadac product base.

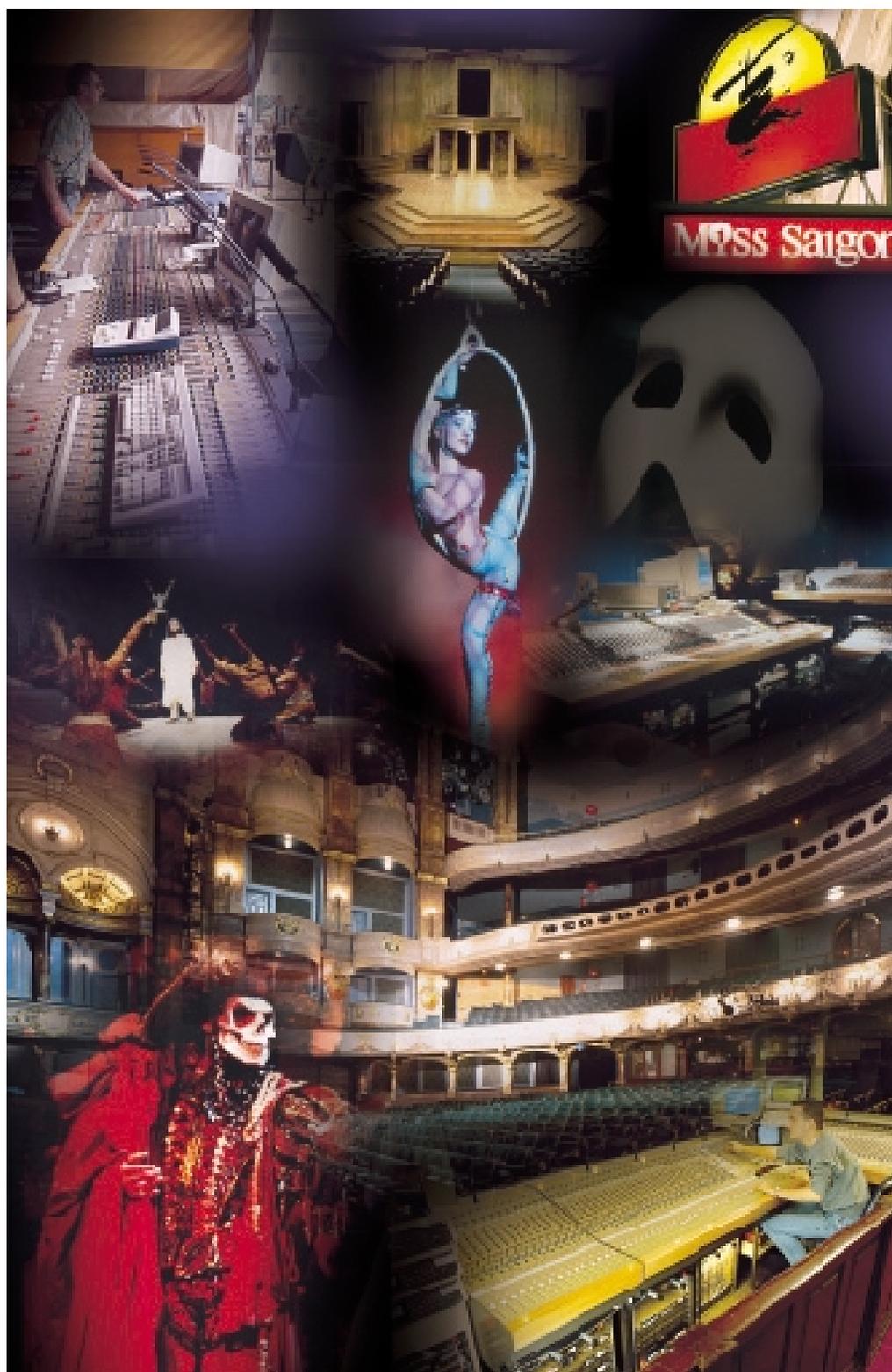
The world's leading sound designers regularly specify Cadac for the most demanding show duties - Andrew

Bruce, Steve Kennedy, Martin Levan, Tony Meola, and Richard Ryan - to name but a few. High profile rock'n'roll tours rely on Cadac technology to deliver quality performances even in the most hostile conditions - such as The Rolling Stones, The Verve and Foreigner. 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.

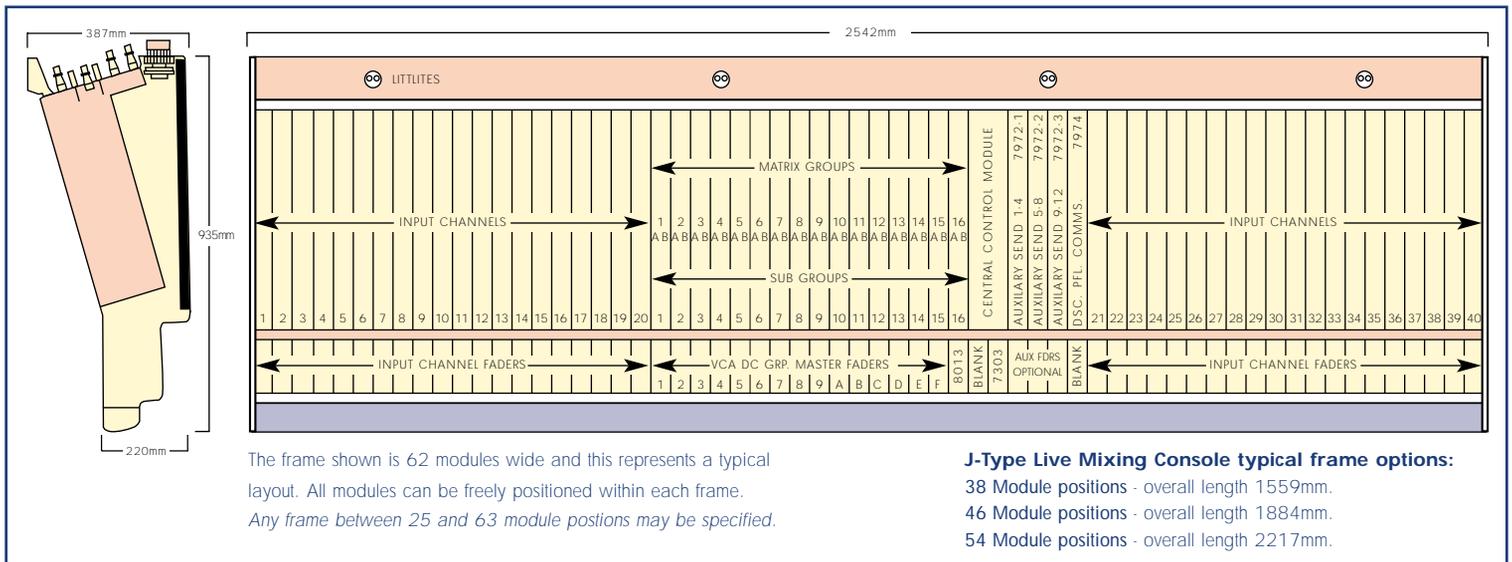
Cadac consoles are built to endure, using the highest quality components, complemented by innovative electronic and mechanical designs. Design, manufacture and test are all conducted at the company's comprehensive facilities in Luton, Bedfordshire, UK, which are equipped with the latest CAD design equipment and state-of-the-art test equipment.

In the field, a global network of Cadac dealers provides fast access to local technical expertise, complemented by Cadac's responsive help line service.

Over 30 years' experience in designing consoles for the recording and live theatre industries lies behind the J-Type. Available in a range of options to fulfil most specifications, it offers the level of quality, functionality and versatility for which Cadac is famous worldwide.



# GENERAL SPECIFICATION



## FRAME

The J-Type is constructed from extruded aluminium bearers, fixed to 7mm two-part 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, with 'floating' connectors fitted on to steel cradles. Data busses use dedicated ribbon cable. All power bussing is rated at 40A per rail. Frame-mounted input connectors include diode-mixed power inlets, earth points, headphone and Littlite connections, as well as optional bus expansion connectors. The frames incorporate multiple cooling fans with a 5-speed control. Any frame size may be specified from 25 to 63 modules wide.

## MODULES

The J-Type module's design features a motherboard, with plug-in daughter boards for all audio and digital control functions. This ensures servicing simplicity and fast replacement of any faulty component. Each module may be plugged into any

position in the console frame, by means of a top quality two-part connector system, which is designed as a mating pair to provide excellent mechanical and electrical reliability. A rail system is used to guide each module into its correct position. The console design allows modules to be removed or inserted without powering down.

## CONNECTORS

Audio connections will be determined by the user's specification and whether a patchbay is required. XLR type connectors are standard for all inputs and outputs. 1/4" jack sockets are used for insert sends and returns. Two other possible variations are:

- Military standard round multiway connectors for a touring system, with a separate patchbay.
- Varelco multiway connectors for a fixed installation, with a separate patchbay.

## POWER SUPPLIES

Each J-Type console requires the following:

- ±18v for the audio electronics
- +13v for LEDs, relays and logic circuits
- +48v for phantom powering of microphones

The power supplies are suitable for rack-mounting or flight cases, and are connected via a heavy duty, shielded multicore cable with military circular bayonet connectors at each end. Each console may be powered by two independent power supply systems, operating simultaneously.

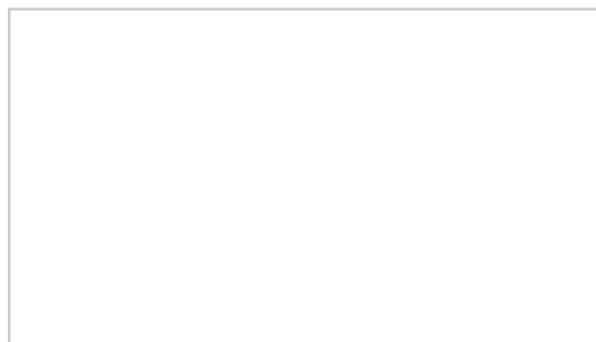
## FINISH

All Cadac front panels are machined from custom-designed 3mm aluminium extrusion, which is stove enamelled, silk-screened and lacquered. The silk-screened legend is designed to withstand arduous operating conditions.

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

## STANDARDS

The J-Type is designed to the following standards: EN55103-1:1997, EN55103-2:1997 and EN60065:1998



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