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R type
R-TYPE LIVE
PRODUCTION
CONSOLE
cadac

THE R-TYPE LIVE PR

The R-Type Live Production Console is Cadac's answer to touring sophistication, contained within a cost-efficient and easily re-configurable package. Comprising a new lightweight monocoque design and a slimmer module width, the R-Type is designed for fast installation. The console combines touring ruggedness with the legendary Cadac audio quality and reliability, providing comprehensive facilities for both FOH and monitor mixing. A major benefit for rental companies is the ability to re-configure the console exactly to match each tour's specification and budget - using Cadac's unique "plug-anywhere" modules.

The R-Type joins an impressive line-up of mixing consoles, with the Cadac name having an unrivalled reputation for audio performance, reliability and engineering excellence. The company's comprehensive line-up of console designs highlights its specialist focus on sound reinforcement and location recording. It follows in the footsteps of the J-Type and F-Type Live Production Consoles, complemented by the M-Type Monitor Board, set the standard for live performance audio and monitor mixing.

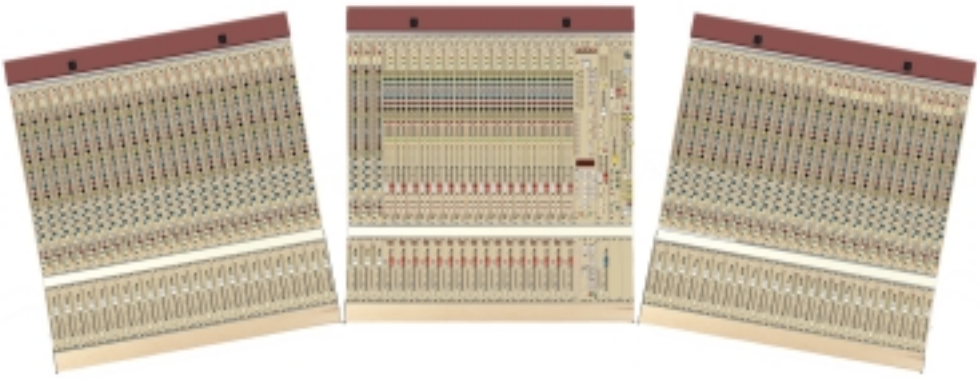
Cadac consoles are no strangers to touring, featuring regularly on international pop tours as well as on touring theatrical productions. The J-Type, F-Type and M-Type consoles have proved the value of Cadac's configuration flexibility and sophisticated facilities, and with the introduction of the R-Type , Cadac is bringing a new quality dimension to the touring scene.

TOURING FLEXIBILITY

With the R-Type, a single 24-slot frame can be configured to handle a small venue or gig easily - with larger consoles being assembled out of multiples of the 24-way frame up to any size required.

For example, an FOH console for an awards production or multi-talent show may require anywhere up to or even beyond 180-200 inputs. This is easily achievable by adding additional frames of the required style of inputs. As the standard frames are less than 1m wide, they can be easily arranged in an ergonomic form around the mix position.

A typical configuration using 3 of the R-Type's lightweight 24-slot frames provides up to 51 inputs in any combination of mono or stereo, a full output section plus dedicated L-C-R Outputs and 16 DC Masters.

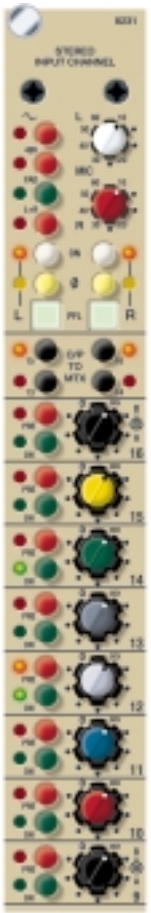


ODUCTION CONSOLE

AN EXCEPTIONAL PERFORMER

- **57 electronically-balanced audio busses**
  Internal audio bussing is balanced and uses ribbon cables with 'floating' connectors.

- **Any number of stereo or mono input channels may be specified**
  There is no limit to the quantity of mono and stereo inputs that can be fitted into an R-Type console. They can be fitted and located as required for the specific project.



- **32 channel SENDS**
  Each of the input channels - both mono and stereo - provide SENDS to 32 outputs, the levels of which are controlled by 16 dual concentric potentiometers.

- **Left - Centre - Right panning from Channels**
  The R-Type console has a dedicated L-C-R Output module. Each Input Channel provides panning for L-C-R, L-R or Mono to Centre with a separate level control.

- **Left - Centre - Right panning from Outputs**
  Each Output provides panning for L-C-R, L-R or Mono to Centre without a separate level control.

- **Stereo panning from each Input Channel or Output to a dedicated stereo bus**
  A dedicated Stereo output is provided for use as a recording or broadcast feed.

- **16 Matrix Outputs**
  Every output has 8 dual concentric potentiometers providing routing to 16 matrix outputs respectively located at the top of each output module.

- **Direct inject to all Output and Matrix busses**

- **16 DC Masters (VCA Masters)**
  All input channels can be assigned to one, or more, of the DC Masters. This permits the simultaneous use of traditional VCA Group control and additionally provides a simple and convenient method of setting up Group Masters.

- **16 Mute Groups**
  All input channels and DC Masters can be selected - up to 16 Mute Groups.

- **100 internal snapshot memories in the CCM**
  Up to 100 (optionally 200) complete console snapshots of VCA assignment, Mute Groups and other programmable functions can be recorded into the Central Control Module's local memory for instant cue recall.

- **PC control under SAM software**
  The full range of console automation facilities provided within Cadac's Sound Automation Manager (SAM) for Windows® software can be accessed.

- **Motor faders available for all Input channel faders and DC Master faders**

R-TYPE CONSOLE FEATURES

- **Lightweight yet strong monocoque frame design**
  Based on the proven J-Type chassis and with a fully-loaded 24-slot frame designed for an easy two-man lift, this provides the essential elements of lightness and strength.

- **Multiple frames for flexible configuration**
  Frames are connected via resilient audio and power umbilical cables, with all interconnects designed to ensure a swift load-in and load-out of the console.

- **Module width of just 35mm (1.4 inches)**
  Slimline modules (just 35mm/1.4") give the R-Type a compact footprint - the overall width of the console is less than 1 metre/under 36" wide, with Cadac's design using channel strips and fader modules to achieve the slimline layout.

- **Cadac's unique "plug anywhere" modules**
  Any R-Type module may be positioned in any frame, continuing the Cadac tradition of giving users complete flexibility to reconfigure the console layout. Users have complete freedom to mix and match mono and stereo input channels, input and output modules, and the control modules, for the project in hand.

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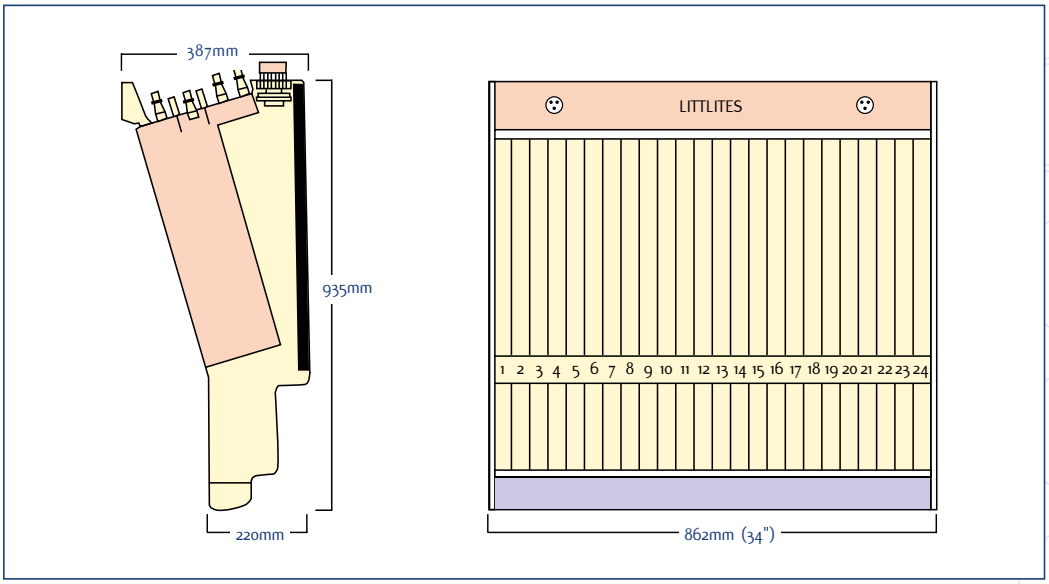
GENERAL SPECIFICATION



FRAME

The R-Type is constructed from extruded aluminium bearers, 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, with 'floating' connectors fitted on to steel cradles. All power bussing is rated at 40A per rail. Frame-mounted inputs include diode-mixed power inlets, earth points and headphone XLRs, as well as optional bus expansion connectors. The frames are designed to incorporate multiple cooling fans with a 5-speed control. The standard frame comprises 24 module positions. Other sizes can be supplied to special order.

MODULES

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. ¼" jack sockets are used for insert sends and returns.

POWER SUPPLIES

Each R-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 R-Type console, as required.

STANDARDS

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

ISO 9001 REGISTERED FIRM

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Designed and Manufactured by:
Cadac Electronics Plc
One New Street,
Luton,
Bedfordshire,
England LU1 5DX
Telephone: +44 (0)1582 404202
Facsimile: +44 (0)1582 412799
Email: info@cadac-sound.com
Website: www.cadac-sound.com

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