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# Type R Breaking Radio Silence



Type R is a new modular, expandable, IP-based radio system from Calrec Audio, which utilises standard networking technology and combines it with soft panels which can be tailored to operator needs.

Type R's physical control system consists of just three slimline panels: a fader panel, a large soft panel and a small soft panel. Each is compatible with COTS hardware and powered over ethernet to keep cabling to a minimum.

Type R has a simple 2U core at its heart with integrated I/O resources to get you up and running immediately. A single core can power up to three independent mixing environments, with no sharing of DSP resources.

Whether used as independent studio consoles, microphone processors or utility mixing, the ability to use multiple mixing engines combined with the flexibility of the AES67 compatible network provide all the power you will ever need.

The touch-screen soft panels are designed around simple and colourful control elements and can easily be customised as multi-function panels. Soft Panels can be utilised in either landscape or portrait formats, and used to provide adaptable and specific functionality for talent, while ensuring overall control is maintained by the station technical team.

This functionality can be quickly changed from show-to-show using simple memory loads, and can be tailored to fit the needs of the talent.

Fader panels are small, sleek and simple, with six faders and immediate access to essential controls. Fader panels can be added or removed as simply as plugging or unplugging an ethernet cable, creating a radio infrastructure which is easily expandable, and making upgrades a breeze.



Broadcast-specific control is clear and concise across the system. Bussing, including the creation of mix-minus feeds, is quick to assign, while EQ and dynamics control is clear and fast. It is a pure radio platform designed for a fast-paced modern environment.

And as you would expect from Calrec, Type R is a resilient console system designed for reliable professional use, with all the requisite power, function and scalability to keep you on air for many years to come.

Type R is a thoroughly modern and customer-focused radio broadcast system which adapts to a station's needs as its requirements evolve, and provides simple customisation across established networks, open control protocols and surface personalisation.

With a native IP Backbone, Type R provides an infrastructure for future expansion. It guarantees stations are not only able to keep pace with changing demands, but provides the facility to ignite their audiences with new and innovative programming.



Type R provides simple customisation across established networks, open control protocols and surface personalisation.

#### Surface and Hardware

- Full size 100mm faders
- Up to 48 physical faders on one surface
- External Talkback microphone
- 2 x stereo headphone outputs (1/4" TRS jack) I/O boxes
- Integral 512<sup>2</sup> router
- AoIP connectivity, including redundant connectivity for all I/O boxes
- Up to 256 audio channels per AoIP port

#### Processing

- 3 x independent mixing environments on one single Core
- Multiple sample rates; operates at 44.1, 48 and 96kHz. All DSP facilities available at all sample rates.
- Between 18 and 60 input channels per console
- Up to 3 x (mono, stereo or 5.1) main outputs
- Up to 8 x (mono, stereo or 5.1) a groups
- Up to 16 (mono or stereo) aux outputs
- De-esser on all channels
- Expander/gate/ducker with sidechain EQ on all channels and groups
- Automixer on every mono channel and group
- Compressor/Limiter on all direct outputs & mix minus outputs
- 1 x assignable direct output per channel/group
- 1 x assignable mix minus output per channel/group
- 1 x insert sends & return per channel/group/aux/main (mono, stereo or 5.1)
- Dedicated monitor inserts available to console, studio 1 and misc LS
- 2 x stereo mix minus buses
- 1 x off-air stereo conference bus
- 48 x external monitor/meter inputs
- Unlimited VCA groups
- 4 band full Parametric EQ + LF & HF filters with 12 or 24dB/octave slopes on every channel, group, aux and main
- 5.4s Input Delay per Channel from a pool of 48 delay blocks
- 5.4s Path Delay for every path from a pool of 48 delay blocks
- 5.4s Output Delay per Output including Direct Outputs from a pool of 48 delay blocks

#### I/O

- 2U Core provides 4 x AES input ports, 4 x AES output ports, 8 x channels of analogue mic/line, 8 x channels of analogue line level output, 12 x GPI, 12 x GPO ports and 2 x stereo headphone outputs, with optional redundant AoIP boards
- 1U Combination I/O unit provides 4 x AES input ports, 4 x AES output ports, 8 x channels of analogue mic/line input, 8 x channels of analogue line level output, 6 x GPI, 6 x GPO ports and 2 x stereo headphone outputs, with optional redundant AoIP boards
- 1U Analogue I/O unit which provides 16 x channels of analogue mic/line input, 16 x channels of analogue line level output, 6 x GPI and 6 x GPO ports
- 1U Digital AES I/O unit which provides 8 x AES input ports with SRC indication, 8 x AES output ports, 6 x GPI and 6 x GPO ports



Fader panel



Large soft panel (LSP)



Small soft panel (SSP)