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Type R  
Modular, flexible, IP console



Type R is a modular IP mixing system which uses standard network technology and can be tailored to individual operator needs.

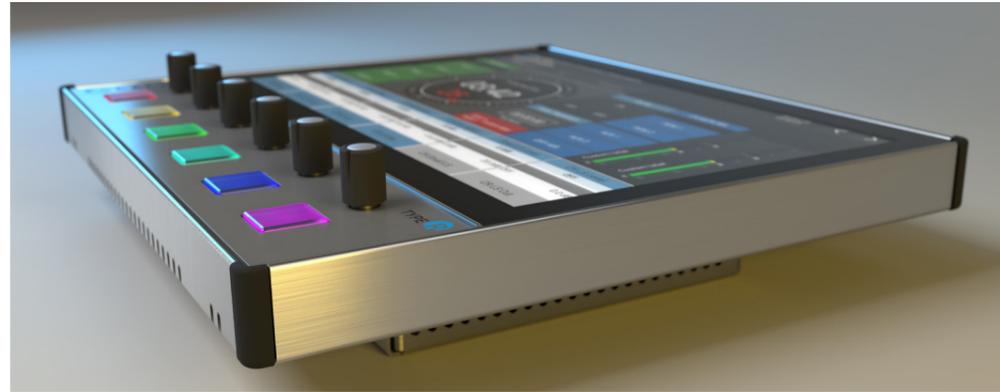
A modular, expandable, IP-based mixing system, Type R uses standard networking hardware and soft panels which can be tailored to operator needs.

Its three hardware panels can create a variety of system types, it ties in with Calrec Assist for mixing in the cloud, and Type R provides mix facilities for up to three independent mixers to hang off one system core. These can be remote from the core, creating a cost-effective option for broadcasters with multiple control rooms and for those who are looking at remote working.

Type R's flexible IP core enables broadcasters to benefit from virtual working practices and automated broadcast workflows on a cost-effective SMPTE 2110-compliant IP backbone.

Type R provides fully automated programming with real-time adjustment of unpredictable external factors, either via the web or via highly portable dedicated hardware elements.

Used as an independent studio console, microphone processor or utility mixing console, Type R's AES67 compatible network provides all the flexibility you will ever need.



Touch-screen soft panels are designed around colourful control elements and can be customised as multi-function panels. Functionality can be changed using memory loads, to be tailored to fit the needs of the talent.

#### Flexible

Type R makes it easy to get hands on via the Calrec Assist web UI. If preferred, physical banks of faders can be added as well as adaptable soft panels which can be configured on the fly to meet changing requirements.

#### Inclusive

Automated broadcast environments provide significant Capex returns. Type R quickly connects with station automation systems, while operators can still tweak settings, such as adding dynamics to a mic input, via dedicated soft panels or via the Assist web UI.

#### Expandable

Type R is an easy choice for broadcasters looking to invest in a full IP infrastructure with one eye on future development. Its range of DSP options can be changed as required and upgraded on the fly, while new panels can be quickly added by plugging in over POE.

#### Configurable

Physical controls consist of just three slimline panels: a fader panel, a large soft panel and a small soft panel. Touch-screen soft panels have colourful control elements; they can be customised as multi-function panels and changed on the fly.

#### Diverse

Type R allows up to 3 x DSP mix engines to run independently on a single core at the same time. These can be remote from the core, creating a cost-effective option for broadcasters with multiple control rooms and those looking at remote working.

#### Licensed

Type R has support for NMOS discovery and connection management (IS-04 v1.3 and IS-05: v1.1) and is SMPTE 2110 compliant, and has a range of licensed DSP options.



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 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

- Multiple sample rates; operates at 44.1 and 48kHz. All DSP facilities available at all sample rates.
- Between 20 and 120 input channels per console
- Up to 3 x (mono / stereo / 5.1) main outputs
- Up to 8 x (mono / stereo / 5.1) groups
- Up to 16 (mono or stereo) aux outputs
- Dedicated suite of Dynamics and EQ on all channels and groups
- 11 x mono mix minus buses
- 1 x off-air stereo conference bus
- 48 x external monitor/meter inputs
- Unlimited VCA groups

#### I/O

- 4 x AES inputs, 4 x AES outputs, 8 x analogue mic/line, 8 x analogue line level output, 12 x GPI, 12 x GPO ports and 2 x stereo headphone outputs, with optional redundant AoIP boards
- 1U Combo I/O unit provides 4 x AES inputs, 4 x AES outputs, 8 x analogue mic/line input, 8 x 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 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 provides 8 x AES inputs, 8 x AES outputs, 6 x GPI and 6 x GPO ports



Type R is a resilient console system with the requisite power, functionality, flexibility and scalability to keep you on air for years to come.



With a native IP backbone, Type R provides a robust infrastructure for future expansion.