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CALREC

Apollo
Harness the network

CALREC

For over 50 years Calrec has adhered to the same basic design principles: that an audio console for live on-air use has to be both extremely reliable, and easy to operate.

The Apollo console continues this tradition.

Resilient
The Calrec Apollo provides redundant hardware for ALL critical systems, and takeover is automatic and seamless. Hot spares mirror primary hardware and in the rare event of failure automatically take over with no disruption to the audio. This intelligent system covers DSP modules, control processor modules, router modules and all PSUs.

With Calrec, you can be confident that you are always in control.

Intuitive and Ergonomic
Apollo has a flexible and intuitive control surface, incorporating colour, touch and tactile controls. The surface incorporates over 25 years of refinement of Calrec's assignable console designs while the soft nature of the panels allows the operator to reconfigure them to reflect a variety of operating setups.

We've worked hard to enhance the Apollo control surface to incorporate operator feedback.

The result is practical and elegant, offering the same sense of assurance associated with one-knob per function control. Form and function, seamlessly matched.

Powerful Networking
Hydra2 is the Apollo's backbone, linking the control surface to an 8192² router and on to more complex networks when required. Hydra2 is adaptive and intelligent, automatically recognising changes to the network and updating all its clients. Hydra2's plug and play nature allows networks to be designed to meet the specific requirements of the broadcast facility and ensures future flexibility.

Interoperable
Hydra2 is more than just a signal transport system; it is a powerful management tool that provides increased network-wide control of many parameters. Virtual interfaces like H2O and Hydra Patchbays provide additional tools for control room and studio resource management, allowing remote network administrators to put control rooms "on-air" and to manage the sources available to them.

Calrec is committed to an agnostic future. AoIP interconnections provide more flexible and elegant replacements than traditional transports. AoIP will save money, increase efficiency, provide additional security and redundancy, and encourage remote working. Most of all it promotes freedom of choice.

But while non-proprietary AoIP solutions are commonly not able to offer the low latency, determinism, capacity, and broadcast feature-rich audio networking of Hydra2, they are a perfect companion technology to Hydra2 for wider connectivity to third-party equipment in a broadcast facility.


Apollo installed at Sky Studios, London

Apollo
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Powerful Processing
Bluefin2 gives the Apollo a staggering 1020 input channel processing paths for the biggest 5.1 projects and is a DSP powerhouse amongst modern broadcast consoles. As you would expect from Calrec, all these are fully featured all of the time and are available irrespective of the processing load on other channels. In other words, channel resources are not shared across the console as a whole – they are dedicated resources and available at all times on every single channel.

Surface

100mm faders with mechanical PFL overpress
12 A/B Layers, providing 24 possible assignments for each fader
Colour-changing rotary knobs to indicate function
Touch screens controlling I/O, monitoring and routing

Processing

1020 channel processing paths
Up to 16 x stereo or 5.1 surround main outputs*
Up to 48 x mono, stereo or 5.1 surround audio groups*
96 x multi-track Buses for IFB or recording
4 x track sends per path
48 x auxiliary Buses
Up to 4 x Direct Outputs/Mix Minus sends per path
Direct outputs can be pre-EQ, pre-fader or post-fader
3 x independent user sections with independent monitoring
All channels and groups have 6-band parametric EQ
All channels, groups and mains have full dynamics
Side Chain EQ/Filters
256 x Inserts
Up to 2.73s delay per Output from a pool of 256 channels
Up to 2.73s delay per Input from a pool of 256 channels
All paths have 2.73s delay in addition to in and out delay
8 x AutoMixers, each controlling an unlimited number of paths
Advanced AutoFader (AFV) functionality on all faders

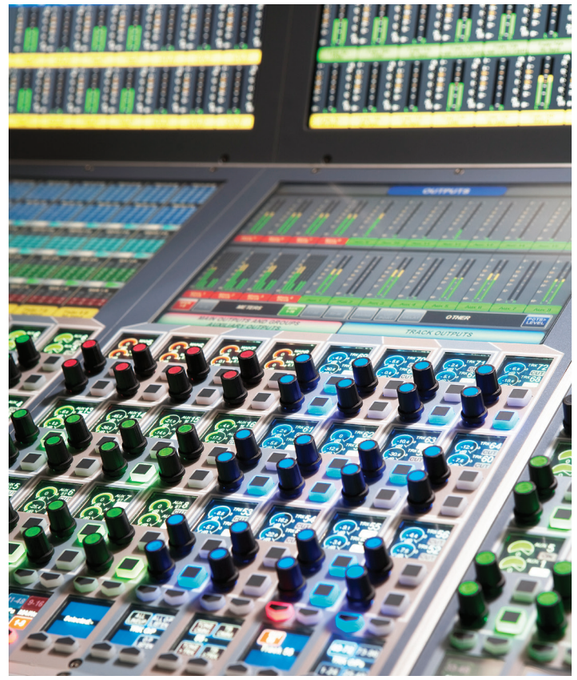
* from a Mains/Group pool of 128 resources

Networking

Integral 8192² router
16/32 Router ports
All I/O provided over Hydra2 network via a comprehensive range of Hydra2 I/O boxes
Cat5e or fiber connectivity

Resilience

Highly resilient – all modules are hot-pluggable with automatic redundant PSU, DSP, Control processor, Router module, I/O Expansion module
Independent DSP operation ensures audio continuity in the event of a PC or control reset
Low power consumption and heat generation



More information at calrec.com/apollo