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Apollo  
Harness the network



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 8192<sup>2</sup> 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.



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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 8192<sup>2</sup> 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

