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Artemis

Get on the grid



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 Artemis console continues this tradition.

Resilient

The Calrec Artemis 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

Artemis 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 Artemis 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 Processing

Bluefin2 gives the Artemis up to 680 input channel processing paths on a single DSP card, with a secondary card providing full and automatic redundancy. 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.

Powerful Networking

Hydra2 is the Artemis's backbone, linking the control surface to an 8192² router (4096² on the Artemis Light) 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.



Powerful, responsive, flexible and reliable as only a Calrec can be, the Artemis offers compact size with undiminished routing and processing capability.

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.

Processing	Artemis Shine	Artemis Beam	Artemis Light
— Channel Processing Paths	680	340	240
— Main Outputs	Up to 16 from M/G pool of 128	Up to 16 from M/G pool of 128	Up to 16 from M/G pool of 72
— Groups	Up to 48 from M/G pool of 128	Up to 48 from M/G pool of 128	Up to 48 from M/G pool of 72
— Track Buses	Up to 64	Up to 64	Up to 48
— Aux Buses	Up to 32	Up to 32	Up to 24
— AFL Systems	3	3	3
— PFL Systems	3	3	3
— Inserts	Pool of 256	Pool of 256	Pool of 128
— Chan/Grp Direct/Mix Minus Outputs	Up to 4 per path from pool of 512	Up to 4 per path from pool of 512	Up to 4 per path from pool of 256
— Input Delay	256 legs of 2.73s	128 legs of 2.73s	128 legs of 2.73s
— Output Delay	256 legs of 2.73s	128 legs of 2.73s	128 legs of 2.73s
— Bus Path Delay	2.73s per path	2.73s per path	2.73s per path
— Track Sends/Chan or Grp	4	4	4
— EQ 1-4	4 band Para	4 band Para	4 band Para
— EQ 5-6	2 band Para	2 band Para	2 band Para
— Sidechain EQ	2 band Para	2 band Para	2 band Para
— Dynamics 1	Comp/Lim and Exp/Gate	Comp/Lim and Exp/Gate	Comp/Lim and Exp/Gate
— Dynamics 2	Comp/Lim	Comp/Lim	Comp/Lim
— Max Faders	72	64	56
— Layers	12 Dual Layers	12 Dual Layers	12 Dual Layers
— AutoMixers, each controlling an unlimited number of paths	8	8	8
— Advanced AutoFader (AFV) functionality on all faders			
Router Ports	16/32	16/32	8
Networking	Integral 8192 ² router All I/O provided over Hydra2 network via a range of Hydra2 I/O boxes Cat5e or fiber connectivity	Integral 8192 ² router	Integral 4096 ² router
Resilient	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		
Surface	100mm faders with mechanical PFL overpress 12 A/B Layers, providing 24 possible assignments for each fader or control Colour-changing rotary knobs to indicate function Touch screens controlling i/o, monitoring and routing		