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Summa

The world at your fingertips



Summa is designed for live broadcast applications with a focus on instinctive operation.

Its design keeps the user interface simple and straightforward. Calrec has focused on ensuring that Summa's highly intuitive GUI would be suitable for a broad range of operator levels. Users control the console via a 17-inch multitouch screen inspired by familiar tablet technology, with a straightforward interface that uses established finger gestures to navigate the system. The crisp, high-resolution display provides elegant controls and clear presentation of information.

Designed for live broadcast applications and with a focus on intuitive operation, Summa simplifies even complex workflow tasks, such as creating mix-minus feeds, with common procedures that are just one tap away.

Summa's other large displays are fully configurable to display bus, output, and loudness meters, and feature dedicated metering, routing, and processing information per fader.

The physical control surface is available in fixed 12+8, 24+8 and 36+8 fader configurations with a new streamlined layout. Each channel strip has only the most essential mechanical controls, featuring a fader, two flexible control cells, and a dedicated gain pot.

Summa uses Calrec's award-winning Bluefin2 technology at its core, and the same integral Hydra2 router technology as the Apollo and Artemis consoles. Bluefin2 and Hydra2 technologies are in use 24 hours a day.

Bluefin2 provides Summa with a pool of up to 180 channel processing paths, which can be assigned as mono, stereo, or 5.1 channels. As with all Calrec consoles, there is no resource-sharing across the DSP. All facilities are available on all channels at all times. Summa has eight groups, four mains (all of which can be mono, stereo, or 5.1), 16 auxes, and 32 tracks.

The broadcast-focused feature set also includes complete system redundancy, dedicated delay on all paths with additional assignable input and output delay, PFL overpress on all faders, and three 5.1 studio monitor outputs.

Summa's refined mechanical design and a lean construction that keeps components and materials to a minimum. Disciplined power distribution means the console is one of the most energy efficient consoles available.



Inspired by the simplicity and intuitiveness of tablet technology, Summa is an audio console designed for a broad range of operator levels.

Surface

- 100mm faders with PFL overpress
- Six surface layers
- Built-in Talkback Microphone
- Stereo Headphone Output

Processing

- A pool of 180 or 128 Channel processing paths
- 4 x Main Outputs (mono, stereo or 5.1)
- 8 x Audio Sub-Groups (mono, stereo or 5.1)
- 32 x Track Outputs (mono or stereo)
- 16 x Auxiliary Outputs (mono or stereo)
- 1 x Direct Output per Channel* (Pre EQ, Pre Fader or Post Fader)
- 1 x Mix Minus Output per Channel* (can be fed from Auto Minus, Auxes, Tracks or Off Air Conference Bus)
- 1 x Auto Minus Bus
- 1 x Off Air Conference Bus
- 1 x Insert on every Channel, Group, Main and Console Monitor Output
- 152 x External Monitor and Meter Inputs
- 4 x AutoMixers, each controlling an unlimited number of paths
- Unlimited VCA groups
- 6-band parametric EQ on every Channel, Group, Main
- Dynamics processing on every Channel, Main, Group, Aux and Track (2 x Compressor/Limiter, Expander, Gate, Side Chain EQ/Filters)
- 2.73s of delay within every Channel, Group, Main, Aux and Track
- An additional pool of 128 blocks of assignable Input Delay (2.73s each)
- An additional pool of 128 blocks of assignable Output Delay (2.73s each)
- 5.1 Console Monitor Output (with dedicated small LS and PFL/RTB outputs)
- 3 x 5.1 Studio Monitor Outputs
- Advanced AutoFader (AFV) functionality on all faders

*from a pool of 188 mono resources shared between direct outputs and mix minus outputs.

Networking

- Integral 4096x4096 router
- 8 redundant router connections for networking consoles and connecting I/O boxes
- All I/O provided over Hydra2 network via a wide range of I/O formats
- Cat5e or fiber connectivity

Resilience

- Highly resilient. PSU, DSP, Control Processor and Router Modules are hot-swappable and have automatic redundancy
- Independent DSP operation ensures audio continuity in the event of a surface reset
- Low power consumption and heat generation

