ALLEN&HEATH

AHM-16 / AHM-32 FREQUENTLY ASKED QUESTIONS

Q: How do they differ from AHM-64?

A: AHM-16 and AHM-32 are 1U rack-mountable and offer some front panel controls. AHM-64 has no local control, is 2U in size and features a built-in SLink port and backup DC 12V input. Other than that, the three models differ in matrix size (16x16, 32x32, 64x64), and the number of user profiles, IP controllers and AMMs they support. See the positioning document for more detail.

Q: What are the front panel controls for?

A: The SoftKeys on the front of AHM-16 and AHM-32 can be programmed to control mutes, levels, recall presets and more. Some functions will take over the front panel screen, arrow keys and Sel key, for example for source selection, volume control or preset selection. The screen can also display information on the unit such as firmware version and network settings.

Q: Do they work with AHM System Manager?

A: Yes, AHM System Manager V1.2 and higher will support all three models.

Q: Do they work with the IP controllers and GPIO interface?

A: Yes, AHM-16 and AHM-32 support the IP8, IP6, IP1 controllers and the GPIO interface. Refer to the positioning document or user guides for details on how many controllers are supported.

Q: Which audio expanders can I use?

A: AHM-16 and AHM-32 don't have a built-in SLink port like AHM-64. An SLink card can be fitted to take advantage of the full Allen & Heath 'Everything I/O' ecosystem. The SLink card can auto-switch to different modes:

- dSNAKE, for 48kHz audio expansion using AR2412, AR84 or AB168 (max two units, see user guide for further information)
- DX, for 96kHz audio expansion using a single DX32 or up to two DX168 / DX164-W / DX012
- gigaACE, for high-channel 96kHz connection to a dLive / SQ mixer, or a DX Hub for increased DX connectivity

When equipped with a Dante card, AHM-16 and AHM-32 also support the DT168 and DT164-W Dante expanders.

Q: Do they work with the DT168 and DT164-W Dante expanders?

A: Yes, when fitted with the M-SQ-DANT64 (SQ Dante V2) or upcoming M-SQ-DANT32 card.

Q: Do they work with the Custom Control app?

A: Yes, the Custom Control app and editor are fully compatible with all AHM models, enabling multiple user interfaces, with cross-platform compatibility.

Q: Can I fit dLive I/O cards?

A: No, AHM-16 and AHM-32 have a smaller-size I/O Port (same size as SQ and AHM-64).

Q: Can I fit SQ I/O cards?

A: From V1.2 firmware, all AHM models will support the M-SQ-DANT64 (SQ Dante V2) card, as well as the SQ SLink, Waves and MADI cards.

Q: Can they work with a dLive Surface?

A: No, AHM processors cannot be controlled by a dLive Surface.

Q: Can I use them for occasional live music mixing in a venue?

A: The audio quality and processing power in AHM processors make them very versatile and certainly capable of handling live performances. However please note that AHM processors do not have any built-in FX. Where live music mixing is required, you should consider interfacing the matrix processor with an Allen & Heath live mixer over SLink or Dante.

Q: How does it compare to a dLive DM / CDM MixRack in install applications?

A: AHM and dLive share many accessories and peripherals so it is natural to ask which would suit a particular installation best.

Some of the advantages of dLive compared to AHM are:

- Higher input channel count
- Higher system scalability (3 I/O Ports in a DM MixRack)
- More audio networking options e.g. fibreACE, superMADI, AES
- FX and DEEP processing for live music mixing

Some of the advantages of AHM compared to dLive are:

- Dedicated tools for installation including ANC, priority ducking, event scheduler
- Crossover filters and peak limiters for speaker processing
- Optional AEC module (AHM-64 / 32 only)
- On-board GPIO
- SLink compatibility with 48kHz dSNAKE expanders

Q: How many zones can they handle?

A: AHM-16 supports up to 16 mono / 8 stereo Zones, depending on configuration. AHM-32 supports up to 32 mono / 16 stereo Zones, depending on configuration.

Q: Is the bus architecture configurable?

A: Yes, the processing outputs can be any combination of mono or stereo Zones, or speaker processing outputs, for example an AHM-32 can be configured with 10x mono Zones, 4x stereo Zones, 1x stereo 3-way crossover output, 2x stereo 2-way crossover outputs (32 total).

Zones are the equivalent of a mix bus in dLive / SQ / Avantis. All Zones have full processing including dynamics, PEQ, GEQ and delay, but some zones might need extra processing for multiple speaker outputs, or discrete delays for speaker stacks.

Typically, Zones would be used for different areas or rooms of a building. Zones can be patched to outputs directly or through speaker processing outputs for further processing.

Q: Does AHM-16 / AHM-32 have a backup DC Input?

A: No, AHM-16 and AHM-32 have a single, main voltage PSU.