You can only run matching versions of System Manager and AHM firmware e.g. System Manager V1.02 will not connect to a unit running V1.00 without prior update.

The System Manager application includes firmware files for the AHM matrix processors. Refer to www.allen-heath.com for the latest version of the package.

Updating AHM firmware deletes Presets and current settings. Always save your settings as a Config before performing the update, and restore your Config or a Template Config after the update.

**V1.20 April 2022**

**Feature release.**

**New features**

- Support of AHM-16 and AHM-32
- Support of MADI and SLink card
- Email notifications
- Polarity control for crossover outputs
- User Libraries for all channel processing blocks
- Ability to import/export Libraries
- Auto dim option for IP controllers

**Improvements**

- Speaker processing settings now stored and recallable in Presets.
- IP control commands for Presets can now contain up to 1,000 bytes.
- Icons added to Preset list for external/IP control, audio playback, embedded recall, and warning icon when nothing selected in the Recall Scope.
- Mac address of the unit now displayed in the Status screen.
- ESC closes processing window.

**Fixes**

**ID1143**  Events scheduled for midnight would not start.

**ID1250**  The value for an external control Set Level message was inconsistent with the value returned by the Get Level message.

**ID1107**  External control commands assigned to IP controllers would not validate hex strings correctly.

**ID1029**  Cascade/redundant mode was not displayed for DX164-W and DX012 devices.

**ID1001**  Issues with firmware update of multiple DX expanders connected to a DX Hub.

**ID975**  The meters in the AEC Insert screen were under-reading.
Unsupported SQ Dante V1 cards were incorrectly recognised as a valid option card.

Level sensing functions would sometimes cause errors when restoring a Config.

External control messages for levels could apply level values greater than 7F.

Several other fixes and improvements.

Known Issues

Changing the number of crossover ways resets the Speaker Processing settings, but not the output level and polarity.

V1.12 February 2022

Maintenance release.

Fixes

Compressor and gate sidechain were not reset correctly after a Zone configuration or Input stereo configuration change.

Priority Input ducker settings were not stored in Config files.

TCP control of Control Group level increment/decrement could apply the wrong level to a Group.

Recalling a Preset with a crossfade time set for AEC Sound Reinforcement outputs could crash the AHM processor.

V1.12 includes support of latest DX012 hardware following component changes.

V1.11 December 2021

Maintenance release.

Fixes

IP Controllers could erroneously display information about the Shift function when not in Shift mode.

Issues with remote Embedded Recalls between units.

Accessing socket settings for a DX012 in the Assign screen could crash AHM System Manager.

Recall Scope for AEC Sound Reinforcement output assignments, levels and mutes was not set correctly.

Removing the AEC module could sometimes cause System Manager to crash.

GPI controls could stop working after a power cycle.

The effective range of Digital Trim was erroneously limited to -24dB to +18dB.

A DX expander connected to a GX4816 could fail to auto update firmware.
Several other fixes and improvements, including support of latest DX164-W, DX32, AR2412, AR84 and AB168 hardware following component changes.

V1.10  July 2021

Feature release.

New features

- Support of AEC expansion module (M-AHM-64-A)
- External control and IP control:
  - TCP / UDP messages from SoftKey / GPI
  - Custom IP strings can be entered as ASCII or decimal
  - Custom External Control strings can be entered as decimal
  - External Control TCP protocol additions
    - Preamp Gain, Pad and 48V
    - Digital Trim
    - Get Source Selector state
    - Get Last Recalled Preset
    - Get channel name and colour
- Static LED / GPO function
- Notch filters added to PEQ
- Option to store audio files and Custom Control Config as part of the AHM Config.
- Embedded Preset recalls:
  - Option to track embedded recalls
  - Enter target unit by IP address
- Support of latest AHM-64 and GX4816 hardware following component changes
- DNS settings added to Network setup

Improvements

- Priority Inputs
  - Ducking now affects Zone to Zone as well as Input to Zone
  - Gain reduction meter added
- Use of System Manager restricted to Admin user
- Several Help improvements including a contextual Help button
- More accurate real time clock
- JP1 On warning added to AHM System Manager

Fixes

ID658  An active ANC at the moment of restoring a Config could result in the Zone output level not recalled correctly.
ID786  The I/O Port Network Bridge state was accidentally stored and recalled in Presets and Configs.
ID735  A Preset recall assigned to an IP Controller in Offline mode could crash AHM System Manager if the Preset name was too long.
ID63  SLink sockets did not have valid / invalid indication in the input source window.
ID445  I/O Port inputs and outputs did not have valid / invalid indication in the Assign screen.
ID604  Adding multiple Control Groups to a channel could cause audio artefacts.
Sample rate options were missing for DX32 digital outputs.

Several issues related to offline connection of IP Controllers.

Several issues related to IP Controllers and Source Selector.

IP Controllers would not update correctly after an Input Stereos configuration change.

Under certain circumstances, Presets could show incorrect Recall Scope parameters and cause errors in the Logs.

The TLS secure port would stop responding after 30 connection/disconnection events.

Lost TCP connections would cause other TCP and TLS sockets to stop responding.

The Monitor Point indication at the bottom of the screen would sometimes not update correctly after a Zones Configuration change.

A jumper reset would not reset the TCP External Control security settings.

Changes to Subnet mask or Gateway settings would not apply unless IP address or DHCP settings were also changed.

Channel names were not displayed in the Assign / Direct Out screen.

Several other fixes and improvements.

Known Issues

A DX expander connected to a GX4816 might be labelled in the System Manager software as “DX4” and fail to auto update firmware.

The effective range of Digital Trim is erroneously limited to +18dB although the control correctly operates to +24dB.

V1.03  March 2021

Maintenance release.

New features

• Support of latest DX168 hardware following component changes.

Fixes

On some units, the Real-Time Clock would not remember date and time.

The Last Recalled Preset would not update with the recall of the Startup Preset.

Recalling a Preset would sometimes cause the level of a Zone to drop to the minimum level set in the ANC.

Wrong level displayed on IP controllers when duplicate channels are assigned.

Input Stereo configuration changes could apply the incorrect On level in Source Selectors.
Speaker Processing would sometimes display an incorrect state after a Zone Stereo configuration change.

Audio clicks could be heard on the monitor output when moving between some processing blocks.

Hot-plugging a dSnake AB168 or AR84 expander connected to an AR2412 could result in the AB168 / AR84 expander not working correctly.

The IP6 ‘View’ button was not displayed in the IP Controller setup and simulator.

Several other fixes and improvements.

**Known Issues**

A DX expander connected to a GX4816 might be labelled in the System Manager software as ‘DX4’.

Active ANC at the moment of restoring a Config might result in the Zone output levels not recalled correctly. Recalling the Config a second time corrects the levels.

**V1.02 September 2020**

**Maintenance release.**

**Fixes**

Speaker Processing settings were incorrectly stored in Zone Libraries.

IP Controllers assigned to a Source Selector could sometimes get multiple controls linked.

Sometimes output levels were not recalled correctly after a Config restore, if the stereo settings were changed.

Clicking on the Control Group names or Crosspoint Zone destination names in the Assign screen, while holding down Shift+Ctrl / Shift+cmd, could cause System Manager to crash.

Zone selection would not work for certain level sensing functions.

Fixes to Monitor point behaviour.

Several fixes to block assignments in the Assign screen.

Input and Control Group names would not update correctly in some screens.

Several fixes to gate and compressor sidechain related to stereo configuration.

Several other fixes and improvements.

**V1.00 July 2020**

This was the first public release of AHM-64 firmware and System Manager software.
System Manager system requirements

Minimum system requirements:

- Resolution 1280x960
- 250MB free disk space
- 2GB RAM (4GB recommended)
- 2GHz Dual Core processor