

**i** 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.

**i** The System Manager application includes firmware files for the AHM matrix processors. Refer to [www.allen-heath.com](http://www.allen-heath.com) for the latest version of the package.

**i** 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.

- ID1009 Unsupported SQ Dante V1 cards were incorrectly recognised as a valid option card.
- ID1109 Level sensing functions would sometimes cause errors when restoring a Config.
- ID1156 External control messages for levels could apply level values greater than 7F.

Several other fixes and improvements.

**Known Issues**

- ID1094 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**

- ID1139 Compressor and gate sidechain were not reset correctly after a Zone configuration or Input stereo configuration change.
- ID1101 Priority Input ducker settings were not stored in Config files.
- ID1161 TCP control of Control Group level increment/decrement could apply the wrong level to a Group.
- ID1180 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**

- ID753 IP Controllers could erroneously display information about the Shift function when not in Shift mode.
- ID1013, ID1014 Issues with remote Embedded Recalls between units.
- ID931 Accessing socket settings for a DX012 in the Assign screen could crash AHM System Manager.
- ID942 Recall Scope for AEC Sound Reinforcement output assignments, levels and mutes was not set correctly.
- ID1070 Removing the AEC module could sometimes cause System Manager to crash.
- ID926 GPI controls could stop working after a power cycle.
- ID914 The effective range of Digital Trim was erroneously limited to -24dB to +18dB.
- ID812 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.

- ID696     Sample rate options were missing for DX32 digital outputs.
- ID652, 655, 735     Several issues related to offline connection of IP Controllers.
- ID674, 718     Several issues related to IP Controllers and Source Selector.
- ID641     IP Controllers would not update correctly after an Input Stereos configuration change.
- ID649     Under certain circumstances, Presets could show incorrect Recall Scope parameters and cause errors in the Logs.
- ID622     The TLS secure port would stop responding after 30 connection/disconnection events.
- ID623     Lost TCP connections would cause other TCP and TLS sockets to stop responding.
- ID677     The Monitor Point indication at the bottom of the screen would sometimes not update correctly after a Zones Configuration change.
- ID747     A jumper reset would not reset the TCP External Control security settings.
- ID743     Changes to Subnet mask or Gateway settings would not apply unless IP address or DHCP settings were also changed.
- ID722     Channel names were not displayed in the Assign / Direct Out screen.

Several other fixes and improvements.

#### **Known Issues**

- ID52, 812 A DX expander connected to a GX4816 might be labelled in the System Manager software as 'DX4' and fail to auto update firmware.
- ID914     The effective range of Digital Trim is erroneously limited to +18dB although the control correctly operates to +24dB.

<b>V1.03</b> March 2021
-------------------------

Maintenance release.

#### **New features**

- Support of latest DX168 hardware following component changes.

#### **Fixes**

- ID754     On some units, the Real-Time Clock would not remember date and time.
- ID702     The Last Recalled Preset would not update with the recall of the Startup Preset.
- ID664     Recalling a Preset would sometimes cause the level of a Zone to drop to the minimum level set in the ANC.
- ID726     Wrong level displayed on IP controllers when duplicate channels are assigned.
- ID634     Input Stereo configuration changes could apply the incorrect On level in Source Selectors.

- ID631 Speaker Processing would sometimes display an incorrect state after a Zone Stereo configuration change.
- ID627 Audio clicks could be heard on the monitor output when moving between some processing blocks.
- ID374 Hot-plugging a dSnake AB168 or AR84 expander connected to an AR2412 could result in the AB168 / AR84 expander not working correctly.
- ID710 The IP6 'View' button was not displayed in the IP Controller setup and simulator.

Several other fixes and improvements.

### Known Issues

- ID52 A DX expander connected to a GX4816 might be labelled in the System Manager software as 'DX4'.
- ID658 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

- ID671 Speaker Processing settings were incorrectly stored in Zone Libraries.
- ID675 IP Controllers assigned to a Source Selector could sometimes get multiple controls linked.
- ID635 Sometimes output levels were not recalled correctly after a Config restore, if the stereo settings were changed.
- ID647 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.
- ID691 Zone selection would not work for certain level sensing functions.
- ID611, 676 Fixes to Monitor point behaviour.
- ID667, 647, 608 Several fixes to block assignments in the Assign screen.
- ID603, 615, 636 Input and Control Group names would not update correctly in some screens.
- ID89, 701, 703 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