

V1.3.1 is a firmware maintenance release for the SQ series of digital audio mixers.

Note Refer to the Allen & Heath web site www.allen-heath.com for:

- The latest information on SQ Series products
- The Allen & Heath support Knowledgebase

Note Firmware files are included in this archive as *.bin files. Ensure you have the correct file for the SQ model you are updating.

File: **SQ-5** = SQ-5UPG_1_3_1r3095.bin
 SQ-6 = SQ-6UPG_1_3_1r3095.bin
 SQ-7 = SQ-7UPG_1_3_1r3095.bin

Note Format your USB device using the SQ mixer format utility. Not all USB devices will be compatible with the SQ mixer. Use the device only for the SQ mixer once you have formatted it and checked it to work correctly with the mixer.

Note SQ-Drive audio recording and multitrack playback require the USB storage device to support high sustained transfer rates. Not all USB devices will guarantee flawless performance. For best results, it is recommended that an external HDD or SSD is used rather than a USB 'stick' drive.

Note USB streaming is compatible with Mac / Windows PC computers. SQ is Core Audio compliant, and will work with macOS 10.12 (Sierra) or later. Windows ASIO™/WDM drivers must be installed prior to use with a Windows computer. Check www.allen-heath.com for the latest SQ Windows drivers and installation guide.

Note Firmware V1.2.0 introduced optional extras for SQ. The 'Tube Stage' preamp included in firmware V1.1.0 will need to be added to SQ units by registering the unit and obtaining a unique key from shop.allen-heath.com. More information can be found on the website and in the reference guide.

Note The term used to describe the optional additional processing for SQ was changed in firmware V1.3.1 from 'Upgrades' to 'Add-Ons'.

Note Due to changes in patching and the structure of saved files, scenes and shows created with V1.0.0 are not compatible with later firmware releases. When updating the SQ firmware from V1.0.0, all current settings will be reset, and all existing saved data (Scenes/Shows/Libraries) will be incompatible. This is not the case when updating from any subsequent version of firmware.

Note As of V1.3, SQ-MixPad and SQ4You apps are 64bit only. For wireless control of the SQ with older 32bit devices, firmware should not be updated beyond V1.2.2.

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Additional Features:

SQ-MixPad additions – Control of DEEP compressor and GEQ plug-ins.

Improvements:

ID-955: Fixed intermittent distortion on USB-B streaming on known systems with issues.

ID-351: Reduced chance of dropout on USB-B streaming when using xHCI controllers.

ID-730: Improved network buffer behaviour to better deal with bad connections to devices.

ID-749: Reduced chance of desk freeze due to bad device connection on network.

ID-1256: SQ-Drive – Multitrack and stereo playback meters display only on the relevant SQ-Drive playback window.

Issues fixed:

ID-1247: SQ-Drive – Fixes for intermittent distortion on multitrack recordings.

ID-1254: SQ-Drive – Loading a multitrack for playback no longer causes issues with stereo playback.

ID-1255: SQ-Drive – Fixed issue where multitrack recording could stop seconds before the end of the file.

ID-1203: DEEP Tube Stage Preamp metering now displays correctly when switching between stereo and mono channels.

ID-1238: Solved issue with GUI layers being displayed out of sequence on screen.

ID-1244: Solved issue where channels strips could display incorrectly when selecting mixes.

ID-1252: Solved issue where channel name could be applied to incorrect channel when switching layers.

Known Issues – SQ-Drive:

Loss of power or unplugging a device during multi-track or stereo record may result in the current recording being lost.

Known issues – Firmware update whilst connected via USB-B:

When connected via USB-B, SQ may not install firmware correctly from a USB device. Disconnect the USB cable before attempting an update.

Known issues – Firmware update does not install on both images:

The SQ has a main image and back-up image for stability and redundancy. If an update has been carried out, and the SQ boots into an older firmware, the update should be carried out again to ensure both images are running the same version.

Known issues – Audio not passing when attempting to load an unavailable upgrade:

When loading a show which uses upgrades not available in the installed firmware, a default processing unit will be loaded, but audio will not pass until the processing has been switched out. This can happen when a show saved on newer firmware is loaded into an SQ running older firmware.

Known issues – Incorrect sync with MixPad when Mixer Config is changed:

Adjusting the Mixer Config on the desk will cause issues in the SQ-MixPad I/O Patch screen until the app has been disconnected and reconnected. For this reason, SQ-MixPad should only be connected after Mixer Config settings have been applied at the desk.

Previous Versions

V1.3.0 Feature release

- Support of SLink and Waves cards added
- Support for DX164-W added
- New add-ons available: DEEP 16T, 16VU, Mighty, Opto and Peak Limiter 76 compressors. Proportional, DiGi and Hybrid GEQ's.
- New Listen bus with patchable outputs
- Master fader 'Listen Level' mode
- Reset Mix Settings roles
- Tie Line patching
- Input Patch Libraries
- External In to PAFL
- Patchable PAFL output
- User permissions
- Compressor 'Ducker Mode' added
- Extra Soft Rotary options including MIDI, assignable Soft Rotary key functions, plus the addition of displayed values and display using the 'View' key
- Touch and drag control of PEQ
- SQ-MixPad additions – User permissions, I/O Patching, FX parameter and SigGen control.
- ID-1002: USB drives with file systems other than FAT can now be formatted by the SQ mixer.
- ID-831: SQ-Drive - extended file type support for .wav files.
- ID-1007: SQ-Drive – added error reporting for drive faults and invalid formats.
- ID-222: Improved/increased touch areas for on-screen buttons and parameters.
- ID-914: AMM strip colour matches channel colour.
- ID-384: SQ-Drive – faster show storage.
- ID-930: AMM Scene Safe icon could be incorrect after reboot.
- ID-932: Audio present on left side of a stereo output when setting output balance to hard right.
- ID-925: Scale and acceleration of Soft Rotary controls improved.
- ID-919: Stereo playback from SQ Drive could occasionally become distorted after a Show recall or power cycle.
- ID-454: PAFL Follow Mix behaviour corrected when changing the setting after selecting a mix to PAFL.
- ID-1108: Signal on SLink channels 17-24 could have reduced level when in dSnake mode.
- ID-1114: SQ-Drive – corrected stop button and seek position behaviour when stopped.
- ID-1035: SQ-Drive – corrected seek position behaviour during playback.
- ID-1021: SQ-Drive – correctly display elapsed and remaining times whilst paused.
- ID-1032: SQ-Drive – continue track playback whilst a new track is selected.
- ID-466: SQ-Drive – multiple improvements including wrap-around (play all) behaviour, current track display, and appearance of controls.
- ID-772: USB source now correctly stored with show.
- ID-606: Soft Rotary displays now correctly update when changing names.
- ID-479: LF and HF Width rotary control now updates illumination correctly to show when shelf mode has been engaged or disengaged.
- ID-641: Corrected Soft Rotary key illumination when used for Pad or Polarity.
- ID-921: Soft Rotary set to main level has persistent display when no channel is selected.

V1.2.2 Maintenance release

- Support for SQ Dante card added.

V1.2.0 Feature release

- D-Classic Automatic Mic Mixing added.
- Support for DX-Hub.
- 'Chorus' and 'Noo Phaser' FX units added.
- Assignable Channel Colours.
- Factory Processing Libraries added.
- Input to PAFL source point selection added.
- ID-839: Fix UDP port numbers to allow port forwarding.
- ID-784: Match Frequency and Width values on PEQ screen to hardware.
- ID-739: Add categories to FX Library.
- ID-447: Enable selection of 'Processing' or 'Routing' screen key before selecting channel.
- ID-852: Channel settings recalled incorrectly when changing channel stereo status
- ID-812: Stereo width changes can cause issues when switching channels back to mono
- ID-804: AR/AB units can dropout or enter update mode
- ID-803: Static IP settings not updating correctly
- ID-723: Changing gate sidechain source from 'self' on SLink input channel mutes audio
- ID-726: Selecting PAFL on SQ-MixPad changes 'Sel' on surface
- ID-721: 'PAFL Follow Mix' does not work in 'Fader Flip' mode
- ID-468: Master fader does not update when level changed on SoftRotary
- ID-437: Next scene does not update after scene name change
- ID-634: Surface can freeze with bad connection to SQ-MixPad app

V1.1.0 Feature release

- 'Tube Stage' DEEP Preamp model added.
- Support for SQ-MixPad app added.
- ID-536: Library closes on recall.
- ID-478: Unassign button added to Insert screen.
- ID-626: PAFL of mix channels sourced pre-delay.
- ID-702: Group routings non-persistent.
- ID-290: Secondary Remote Audio Units enumerated correctly.
- ID-686: AR84 supported as only connected device.
- ID-713: Fix for DX preamp control.
- ID-616: Provision of firmware updates to AR Remote Audio Units.
- ID-722: I/O patching now shows 'live' patching to non-preamp connections.
- ID-714: Input fader now updates correctly when mixing to group.

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- ID-704: I/O screen updates to improve usability.
- ID-537: Confirmation before deleting or overwriting libraries added.
- ID-626: PAFL of mix channels now sourced pre-delay.
- ID-619: Open stereo channel routed to GEQ caused noise on boot.
- ID-486: Corrected preamp control logic when switching mono to stereo or stereo to mono.
- ID-567: Resetting Main LR routing caused fader/audio mismatch.
- ID-461: Channel names now updated on stereo SQ-Drive screen.

V1.0.0 Initial firmware release for SQ mixers.