

V1.5.11 is a maintenance firmware release for the SQ series of digital audio mixers.

**Note** Refer to the Allen & Heath web site [www.allen-heath.com](http://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\_5\_11r4356.bin  
                      **SQ-6** = SQ-6UPG\_1\_5\_11r4356.bin  
                      **SQ-7** = SQ-7UPG\_1\_5\_11r4356.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** The SQ has a main image and back-up image for stability and redundancy. Updating the firmware will always overwrite the alternate image to the one being used to carry out the update.

**Note** If using SQ-MixPad or SQ4You apps, ensure that the first two numbers of the firmware and app versions match.  
SQ firmware V1.5.0 and SQ MixPad V1.5.2 are compatible.  
SQ firmware V1.3.2 and SQ MixPad V1.4.2 are not compatible.

**Note** As of V1.3 for iOS, and V1.5.4 for Android, 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.\* for iOS and V1.5.\* for Android.

**Note** Scenes and shows created with an earlier version of firmware can be recalled on an SQ running more recent firmware releases but scenes and shows created using the latest firmware cannot be recalled on an SQ running older firmware.

**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](http://www.allen-heath.com) for the latest SQ Windows drivers and installation guide.

**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** Firmware V1.2.0 introduced optional add-ons for SQ. Available add-ons and installation status can be found in the SQ 'Utility > General > Add-ons' screen. Add-ons can be purchased from [shop.allen-heath.com](http://shop.allen-heath.com) and used to upgrade a single unit. Once installed, Add-ons are permanent, and cannot be removed or transferred. More information can be found on the website and in the reference guide.

## V1.5.11

### **Additional Features:**

ID-1980: Support for LiveTrax auto track naming feature.

ID-1986: Support new channel display hardware.

### **Issues Fixed:**

ID-1951: Original channel displays with no ID now illuminate correctly.

### **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 – Audio not passing when attempting to load an unavailable add-on:**

When loading a show which uses an add-on 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.

### **Known issues – Loaded MixPad Offline show not copied when updating on PC/Mac:**

When updating the SQ MixPad app on a PC or Mac, the show loaded in Offline mode is not automatically copied across to the new version. Best practice is to store the currently loaded show before updating, then install the new version of MixPad and recall the show being worked on *before* uninstalling the older version.

### **Known issues – Last preamp not working on ports 1-3 of DX Hub:**

The final input on a cascaded DX168 or DX164W or on a DX32 expander, when connected to DX Hub ports 1, 2 or 3, does not work. i.e. SLink port input sockets 32, 64 and 96 from a DX Hub.

## Previous Versions

### **V1.5.10** Maintenance release

- ID-1916: Support for DX88-P added.
- ID-1936: Support for Dante V3 option card following component changes.
- ID-1902: Support for SLink option card following component changes.
- ID-1914: I/O Screen now indicates correct number of sockets for V3 Dante cards.
- ID-1879: Disconnecting DX Hub whilst powered on could cause DC noise on inputs.

### **V1.5.9** Maintenance release

- ID-1904: Support for latest SQ hardware following component changes.
- ID-1884: Touch screen occasionally unresponsive on boot.

### **V1.5.8** Maintenance release

- ID-1896: Support for Dante V3 option card.

### **V1.5.7** Maintenance release

- ID-1887: Support for DX168 following component changes.
- ID-1890: Support for latest SQ hardware following component changes.

### **V1.5.6** Maintenance release

- ID-1843: Support for DX012 following component changes.
- ID-1866, ID-1867, ID-1868: Support for latest SQ hardware following component changes.

### **V1.5.5** Maintenance release

- ID-1841: Support for AR2412, AR84 and AB168 following component changes.
- ID-1842: Support for DX164W following component changes.
- ID-1847: Support for DX-32 following component changes.

### **V1.5.4** Maintenance release

- Support for GX4816 and DX168 hardware following component changes.
- ID-1833: Input channels assigned to AMM when muted now display meter correctly.
- ID-1763: AMM fader positions display correctly after switching overview sections.
- ID-1762: Correct number of slots shown when using MixPad to switch number of AMM's.
- ID-1765: On-screen keyboard no longer closes on multi-touch.
- ID-1817: Copy/Paste/Reset on Scene list respects User Permissions.

### **V1.5.3** Maintenance release

- Support for latest SQ hardware following component changes.

### **V1.5.2** Maintenance release

- Support for SQ MAD1 option card.
- ID-1807: 'Loading' text added to SQ-Drive multitrack screen.
- ID-1814: Potential control layer freeze when simultaneously viewing RTA on PEQ, using SQ-Drive and introducing lots of control messaging.
- ID-1816: Incorrect labelling of FX Return channels after re-patching.
- ID-1820: SQ-Drive recording FX Return files not created after re-patching.

### **V1.5.1** Maintenance release

- ID-1782: Display may freeze when viewing RTA on PEQ whilst using SQ-Drive.
- ID-1779: Noises on local input sockets presenting on small number of units.
- ID-1804: Multitrack recording to SQ-Drive could stall in some circumstances.
- ID-1794: 'Socket used' indication incorrect in I/O screen when patching Direct Outs to ME.
- ID-1793: Talkback output to ME unlabelled resulting in incorrect auto assignment.
- ID-1792: NRPN fader law not recalled correctly on system reboot.
- ID-1778: SQ-Drive stereo record meters incorrectly labelled.
- ID-1596: DT preamp control can be lost when soft rebooting Dante V2 option card.

### **V1.5.0** Feature release

- New add-ons available: Bucket Brigade Delay, Echo, Hypabass.
- 'Channel RTA' added for PEQ and GEQ.
- 48kHz USB option (USB-B and SQ-Drive).
- Record/playback up to 32 channels to/from SQ-Drive.
- Record only patched channels to SQ-Drive.
- USB Meters screen.

- DCA Spill function including 'Spill On Sel' option.
- Additional DCA options for Global and Scene recall filters.
- HPF/LPF options on PEQ.
- Input channel HPF slope options.
- 'Safe' Patching switch option.
- 1-to-1 block patching on I/O screen.
- Show channel delay in Milliseconds, Samples, Meters or Feet (with air temperature variable).
- Higher resolution control for channel delays.
- FX Screen follow Sel option.
- Current Mix/DCA Spill displayed on-screen.
- NRPN Fader Law 'Audio Taper' option.
- Auto network IP address assignment.
- Support for V2 Dante Option Card.
- SQ-MixPad additions – Full RTA support, 3 instances, New Routing screen, Online AMM control, Online insert setup, Online scene management, Safe patching, Offline Scene and Library management, Offline 'share' function, 'URL Hook' added.
- New soft control additions – DCA Spill (SoftKey, Soft Rotary Key, Footswitch), SQ-Drive Arm/Rec/Stop, FX Mute (Soft Rotary Key).
- ID-1577: Updates to De-Esser add-on including new filters.
- ID-1546: Patchable talkback output (post 'Talk' key).
- ID-1497: Default name added to factory libraries.
- ID-1696: Soft Control option lists sorted alphabetically.
- ID-1033: SQ-Drive – store recorded channel name in file metadata.
- ID-1011: Indication of used socket in I/O screen.
- ID-1394: I/O screen – local AES output socket control enabled.
- ID-954: Use reset key with pan control for L-C-R switching.
- ID-1758: 'Next Scene:' persistent through mix config change.
- ID-1675: SQ-Drive - Current track remains selected after 'Play Single'.
- ID-1655: Soft Rotary Keys set to mute now indicate Mute Group/DCA muting.
- ID-1654: Soft Rotaries set to FX parameter correctly illuminate when available.
- ID-1564: Tie Lines patched to ME now contain identifiers.
- ID-1498: PAFL and Talkback settings included in Role resets.
- ID-1550: DynEQ/MultiBD – removed possibility to control a non-visible parameter.
- ID-1527: Pending ganging changes discarded on any change to mixer config.
- SQ4You-190: Group wheel indicator added when a channel is muted.
- SQ4You-192: Channels can be controlled whilst muted.
- ID-1749: Unused FX Sends removed from CH to All Mix.
- ID-1661: SoftKey SQ-Drive controls disabled when USB-B mode is active.
- ID-1620: MIDI NRPN's using MSB/LSB equal to 0x7F respond correctly.
- ID-1569: Incorrect name could be displayed in USB scene delete pop-up.
- ID-1555: 'Add-on unavailable' pop-up displays correctly when using SQ-MixPad 'Push'.
- ID-1535: SLink option card displays 'I/O card fitted' icon correctly on initial boot.
- ID-1595: Shutdown process could trigger SQ-Drive playback if paused.
- ID-1563: I/O screen channel name correct after channel library recall.
- ID-710: Changing playback files could generate audio artefacts in recording.

#### **V1.4.4** Maintenance release

- ID-1501: Factory reset could cause incorrect marking of scene storage location states.

#### **V1.4.3** Maintenance release

- ID-1558: Channel Name and Colour now update throughout system on library item recall.
- ID-1552: Members no longer removed from gang after MixPad push and scene recall.
- ID-1559: Surface Master fader correctly linked to MixPad when in GEQ Fader Flip.
- ID-1553: 'Hall Choral HF' FX Preset 'Ref Detail' value corrected.
- ID-1562: Fixed V1.4.2 FPGA image which caused unwanted noise on some units.

#### **V1.4.2** Maintenance release

- ID-1528: Added labelling to MultiBD4 LM band.
- ID-1543: Multiple DAW methods added to SysEx naming via DAW Control Driver.
- ID-1532: CH to All Mix now works on ganged channels.
- ID-1529: MultiBD 'Link' and 'Rel' functions fixed.
- ID-1540: DynEQ4, and MultiBD metering corrected.
- ID-1526: PEQ Library HPF recall corrected.
- ID-1525: Subnet mask for static address can be edited.
- ID-1523: Input gangs now function with 12 members.

#### **V1.4.1** Maintenance release

- ID-1504: Insert state correctly translated from previous firmware revisions.
- ID-1508: USB libraries can be transferred when there is no stored user library on console.
- ID-1492: DynEQ master trim meter level corrected.
- ID-1493: MultiBD3 and MultiBD4 master trim meter corrected.
- ID-1426: SoftKey and Footswitch Scene Recall scene list updates correctly.

#### **V1.4.0** Feature release

- New add-ons available: DeEsser, Multiband Compressors (MultiBD3/MultiBD4), Dynamic EQ (DynEQ4).
- Ganging.
- Per-scene recall filters.
- USB Scene and Library archiving.
- Copy Paste Reset of Scenes and Per-scene recall filters.
- IO Page socket control.
- Sync Mode for SQ-MixPad connection.
- MIDI NRPN control of Levels, Panning/Balance, Mutes, Assignments, SoftKeys.
- Mono matrix option.
- Preamp on surface option.
- Processing screen follows surface option.
- PEQ band follows screen option.
- Name/Colour options in channel library.
- HPF option in PEQ library.
- New soft control additions – MIDI program changes, note on/off, Listen Level.
- SQ-MixPad additions – Offline mode, follow SQ channel/mix options, PAFL setup, channel routing screen.
- Support for DX32 modular expander added.
- Global recall filters re-organised and extended.
- SQ-Drive performance metering.
- RTA peak band indication in GEQ Fader Flip.
- Socket number displays on channel LCD display.
- Channel and strip numbers added to strip assign.
- Touch scrolling added to all on-screen lists.
- ID-1201: Channel ms delay control improved.
- ID-1227: Compressor parallel path Dry/Wet control improved.
- ID-819: Channel mute time when engaging/disengaging PAD reduced.
- ID-620: Fader calibration process no longer requires rebooting.
- ID-720: Removed persistent metering when dSnake unit is disconnected.
- ID-1008: Mixer shutdown gracefully closes SQ-Drive recording.
- ID-1149: Reset Mix Settings button blocked correctly using user permissions.
- ID-1044: Input patch filtered when preamp recall blocked.
- ID-1266: SQ-Drive seek bar appears correctly on first launch of screen.
- ID-1276: SQ-Drive recording to maximum length no longer lists two recordings in playback.
- ID-565: Stereo insert left disconnects correctly when right send is repatched elsewhere.
- ID-1390: Corrected issue with incorrect output patching when switching mix stereo/mono.
- ID-894: Insert LED correctly displays status on scene recall.
- ID-807: FX Library items now contain Dry/Wet levels when stored as insert.
- ID-563: Insert point In/Out status persists when creating or editing.
- ID-1307: Correction to stereo flag when sending mix channels to a ME system.
- ID-364: Preamp surface control does not affect trim when Mix Ext In has no preamp available.
- ID-1339: AR84 Tie Line patching now persistent after power cycle.
- ID-1271: Routing screen now displays from LHS on opening.
- ID-1287: Fixed inconsistency in AFL/PFL on LR when switching output AFL setting.

#### **V1.3.2** Maintenance release

- ID-1280: Incorrect skins displayed for the two units of DEEP compressor 'Peak Limiter 76'.

#### **V1.3.1** Maintenance release

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

### **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.

#### **V1.0.1** Maintenance release

- 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.