Manuals+ — User Manuals Simplified.

ALLEN HEATH dLive S5000 Control Surface For MixRack Instructions

ALLEN&HEATH

dLive Release Notes
Firmware V1.91

Contents

dLive S5000 Control Surface For MixRack

ⓘ Refer to **www.allen-heath.com** for instructions on how to update the dLive firmware and important notes about the update.

ⓘ When downgrading from firmware V1.83 or higher to V1.81 or lower, please install firmware V1.82 first, then install any earlier versions.

ⓘ When downgrading from firmware V1.90 or higher to V1.88 or lower, jumper JP3 and JP1 on the MixRack must be set to On to allow the firmware downgrade.

ⓘ Recalling an existing Opttronik compressor library in V1.90 will reset the sidechain Emphasis to 'Flat' due to changes in the Emphasis filter modes.

V1.91 November 2021
Maintenance Release

Improvements

ID7252	IP Controller inhibit in Director now persists across sessions, with separate controls for MixRack and Surface IP controllers.
ID7427	Director graphical performance on Windows computers improved.
ID7373	Support of latest DX164-W & DX32 hardware following component changes

Fixes

ID7434	RTA average control behaviour corrected.
ID7428	Recalling a Show with Gain Sharing enabled and redundant gigaACE connections could cause Gain Sharing to stop working on some channels.
ID7423	GX/DX intermittent connection faults handled more gracefully.
ID7413	Resolved fault with NEQ12 ignoring width control in certain circumstances.
ID7411	Opto soft rotary controls now reliably linked to main compressor page controls.
ID7403	Fixes bug whereby RTA controls could fail to be updated correctly after scene recall.

Known Issues

ID7480	When DX boxes configured as 'Connected' offline, Director can show Offline configuration when connected to a MixRack.
ID6928	Connection of a ME personal mixing system to the DX2 socket on GX4816 is not supported.
ID6623	PAFL delay is reset after a Mixer Config change.
ID7484	Director restart required to connect to IP controllers when going offline after previously being online.

V1.90 September 2021
Feature Release

New Features

- New RTA tools – 2x RTAs
    - 61-band bar or line RTA display
    - Sonogram with 5m, 15m, 60m history views and Subtract mode
    - Dual RTA and sonogram view
    - Adjustable scale and ballistics, freeze and peak hold options
    - Channel locked or follow Sel/PAFL
    - Also viewabe on: PEQ/NEQ screen (overlay), South Area widget, external screen
- New DEEP Models
    - Source Expander
    - Dual Threshold Expander
    - Bus compressor
- Mix NEQ – 12-band PEQ with selectable LPF/HPF

- Gain sharing across 2 systems over gigaACE/fibreACE split
- Sennheiser wireless integration (300/500 G3/G4, 2000, 2050)
- LCR+ Main mode with Divergence control
- Softkeys:
    - Screen/Tab Bookmarks
    - Channel Processing On/Off
    - Virtual Soundcheck
    - USB Playback Controls
    - ABCD Range
- New 'South' Widgets:
    - Configurable system information
    - RTC clock and Last Recalled Show / Scene
    - RTA or sonogram
- I/O Screen:
    - Custom names for I/O Ports and DX ports
    - I/O card type display
    - Channel numbers now always displayed
    - I/O Library for Input, Output or Insert patch
- Talkback Groups:
    - Additive Mode
- Custom Channel Rotaries:
    - Stereo Width
    - Front/Rear Pan
    - Divergence
    - LPF
    - Gate Threshold and Depth
- DCA Spills:
    - DCA Fader Persist option
    - Freeze In Layers option
- Director:
    - Firmware update via Director
    - Suppress IP controller connections when Offline
    - Reset Touchscreen size
    - Catalina and Big Sur support
- Scenes:
    - Power-up MixRack Scene
    - Improved indication of Last Recalled Scene in Scene screen
    - Surface Scene pointer persistent after restart
- Shows:
    - Copy all shows to USB option
- Bank View:
    - Digital Trim visible
    - Gang membership visible

- PEQ:
  - Filter types now on 3 separate buttons
- Apps:
  - Access to new expander and RTA tools
  - V1.8 compatibility mode
- Opttronik "Model B":
  - Additional model for another flavour of the classic optical compressor
  - New Emphasis control modes
- De-Esser:
  - New filter modes
- Diagnostics:
  - Manual and Auto Diagnostic modes
- Security:
  - HTTP access on / off
- MIDI/TCP:
  - On / Off / Secure Modes
  - GET messages
  - Added commands for PEQ, HPF, Group Assign
- Source Selector:
  - Off option added
- IP Controllers:
  - IP Controller lock when Surface locked
- Support of latest GX4816 hardware following component changes.

Fixes

ID7046	Improved accuracy of Real Time Clock.
ID7157	Opto compressor Burn and Transient behaviour improved.
ID7025	Improved SRC interpolation for Dante and Waves I/O cards.
ID6380	SIP Softkey would not work in Director.
ID6549	Soft rotaries would not display MCA adjusted send values over +10dB.
ID7221	'Listen' overlay would sometimes display incorrectly when controlled by another device.
ID6800	Changing LR fader combined / individual setting would sometimes generate errors in the logs.
ID6997, 6993, 5172	Several bugs related to IP Controller Advanced and Quick Setup.
ID6946	Patching certain I/O with a Surface connected over the Network socket would sometimes cause the software to crash.
ID6767	PEQ full range option was missing for FX return channels.
ID6858	Solo-in-Place selection would clear after Director connection.
ID6929, 6865	Several bugs related to Soft Rotary widget area.
ID6977	A bus configuration change could sometimes cause the USB recording patch to display 'unused'.
ID6373, 6984	Embedded Recall could not target a GLD or Avantis mixer.
ID6779, 7030, 6975	Several bugs related to Scene Updates.
ID7031	DX012 status was not displayed correctly in the Home screen.
ID5668	Fixes inconsistencies in DX expander gain control when connected over a DX Link card.
ID6913	Certain DX32 + DX Hub configurations would cause the touchscreen to freeze.
ID6841	LCR option would not appear in Director for 5.1 Main mode routing.
ID6943	Assigning multiple DCAs to an Input could cause audio artefacts to the Input Direct Out.
ID2535, 6861	Several bugs related to incorrect South Area widget visualization.
ID6895	Show memory menu would not scroll when more than 250 Shows were stored.

Known Issues

ID6928	Connection of a ME personal mixing system to the DX2 socket on GX4816 is not supported.
ID6623	PAFL delay is reset after a Mixer Config change.

V1.88 June 2021
Maintenance Release
Fixes

ID7007	Custom Control Layouts could show invalid controls after a firmware update or Mixer Config change.
ID6999	Support of latest DX168 hardware following component changes.

V1.87 January 2021
Maintenance Release
Fixes

ID6559	Improved memory usage on consoles in use for extended periods of time.
IPC-20	Incorrect IP controller configuration could cause Surface to freeze intermittently.
ID6935	Fixes inconsistencies in GX4816 gain control.

V1.86 September 2020
Maintenance Release
New Features

- Support of GX4816 via gigaACE card.
- Support of latest revisions of Shure Axient Digital, QLX-D and ULX-D hardware.

Fixes

ID6909	Preamp controls were erroneously displayed for digital AES cards fitted in a DX32 and connected over a DX Hub.

V1.85 April 2020
Maintenance Release
Fixes

ID6616	The firmware update process could sometimes fail to connect to the MixRack.
ID6807	In rare circumstances, the Event Log could cause the Surface to disconnect and require a MixRack restart.
ID6836	Improved power management of C1500 Surfaces.
ID6837	Fader replacement parts with a different firmware version could cause issues.
ID6841	The LCR option for the 5.1 mains mode would not appear in Director.

V1.84 December 2019
Maintenance Release
Improvements

- New fader calibration mode.

Fixes

ID6757	Multiple fast scene recalls could result in erroneous control of DT expander preamps.
ID6760	Saving a Show with unassigned I/O Port preamps could result in an incorrect preamp gain reading and incorrect preamp gain value (+5dB) on re-assignment of the inputs.
ID6777	ME-U channels names could populate slowly, or not appear, when multiple DX expanders are connected to DX sockets on the Surface or MixRack.
IPC-16	Support for PoE+ allocation via LLDP stopped working in V1.80.

V1.83 September 2019
Maintenance Release
Kernel image for firmware upgrade purposes.
Fixes

ID4006	In rare circumstances the touchscreen could freeze.
ID6202	DCA Mix on Softkey LED could stop working after show recall.
ID6696	FX Return PEQ became range limited in 1.80.
ID6725	Under certain circumstances, a Surface cannot detect a MixRack when DHCP is enabled.
ID6729	MixRack log files could not be saved to USB when DHCP was enabled.
ID6754	Scene recall filter could become corrupted after deleting a Scene.

V1.82 September 2019
Maintenance Release
Kernel image for firmware downgrade purposes.
See note on page 1 of this document for more information.

V1.81 June 2019
Maintenance Release
Improvements

- Talkback Groups: "SoftKey Setup" button added.
- Support for Custom Control.

Fixes

ID6653	Changing Mixer Config in Virtual Soundcheck mode changes Trim controls to Gain controls.
ID6658	ABCD patches not visible on I/O page when an unassigned source is selected.
ID6663	External IP to PAFL Trim value reverts to -24dB on Show recall.
ID6704	DX expanders could lose audio sync over 3rd party network switches in 1.80
DID004	In some circumstances, dLive preamp settings would not sync to DT expanders on first connection.

Several other minor fixes.

V1.80 March 2019
Feature Release
New Features

- MCAs
- A/B/C/D Alternative Inputs
- Talkback Groups
- Solo In Place (SIP)
- New DEEP Compressor: OptTronik
- Support for new hardware:
    - DX012
    - DT168
    - DT164-W
    - Dante 64×64
    - Dante 128×128
    - PRIME I/O Modules

Improvements

- Bank View: DCA Fader to 0dB button
- Direct Out: Follow All option (post DCA Fader/Mute & Ch Fader/Mute)
- Ext In Page: SigGen and Talkback On/Off buttons
- gigaACE: VLAN compatible (switch dependent)
- Libraries: Library button added to Overview and PEQ pages
- MixPad: Support for new iPad Pro screen resolution
- PAFL Improvements:
    - Mix To PAFL option
    - Stereo Mix to PAFL EXT IN is now true stereo
    - PAFL busses 3-8 now have same options as 1-2
    - Maximum Delay extended to 682ms
- PEQ: Latching Width option in Setup (C Class Surfaces only)
- Routing page improvements:
    - Direct Out information
    - Mute Group assignment
    - Send level values
- Scene Management: Undo Store
- SigGen: Individually assignable to L and R on stereo mixes
- Sidechain: BPF option
- New Softkey/IP Controller options:
    - Assign On/Off
    - Peak Hold Reset

Fixes

ID5426	Cascaded DX168 into DX Hub not always reported correctly
ID6189	Cannot hot plug expander(s) connected to DX1/2 when an expander is connected to DX3
ID6249	Occasional 1 second delay when recalling scenes with offline IP controller(s) configured
ID6289	Pans can appear incorrectly in Bank view when in GEQ Fader Flip mode
ID6308	Panning a mono Group could affect signal of next mono Group

Several other minor fixes and improvements.
V1.72 November 2018
Maintenance Release
Improvements

- Shure Integration: Support for the latest revision of ULX-D hardware.
- SoftKeys assigned to the Mute function with Invert mode enabled will now illuminate green.
  - Shows created in 1.71 or earlier will require the SoftKey Mute Invert function to be re-applied to enable the new functionality.
- Press F11 to show mouse cursor.

Fixes

ID2821	Under certain circumstances, the MixRack and Surface unit names could display as "Unknown" during a firmware update.
ID6146	Relative Scene Update could take a long time when updating a large number of scenes.
ID6284	The FX Library panel could flicker under certain circumstances.
ID6292	Scene Safes page could fail to show all active safes under specific conditions.

Known issues

ID5034	When updating firmware in a multi-surface system, firmware should be updated on one Surface at a time with the Surface connected to the main gigaACE socket and all other Surfaces disconnected from the MixRack. Alternatively the Surfaces can be updated whilst disconnected from the MixRack via the Connection Failed/ Firmware screen on boot up.
ID5475	When using a 3rd party touchscreen with Director, drag and drop in the Cue list or Scene Import list will sometimes not complete on release and will require a subsequent touch of the screen.
ID5659	Mix highlighting can sometimes stop working in Director after adjusting the strip layout.
ID6261	Socket preamp displayed when SQ connected to gigaACE card.

V1.71 July 2018
Maintenance Release
Fixes

SID139	Director could sometimes fail to display all available Shure devices.
ID5940	The Scene Select function could stop working in the IP1 Simulator.
ID6055	An IP Controller could control an incorrect Aux master level after a Mix Config change.
ID6114	In rare circumstances Director could quit unexpectedly during a show recall.
ID6133	Director main PAFL meters had incorrect scale labels.
ID6138	Output polarity was not applied when first patching to a DX expander.
ID6142	IP Controllers would not connect to Director Surface in MixRack only mode.

V1.70 May 2018
Feature Release
New Features

- Shure wireless integration:
    - ULX-D
    - QLX-D
    - Axient Digital
- Several new routing and patching options:
    - Input to Matrix routing
    - Mix busses and PAFL available as Input channel sources
    - Follow / Invert pan to Mains for Stereo Mix Busses
    - Mix busses can be patched to PAFL Ext. In
    - Mix busses and PAFL can be patched to Mix Ext. In
- Custom MIDI on Scene Recall
- MixPad follows User Permissions
- Support for new hardware:
    - DX164-W

Improvements

- Meters page and widget (incl. AMM meter) show Mute status
- Shelf option for Compressor and Gate sidechain filters
- Source Selectors can select Aux and Main as inputs
- Source Selectors can output to Matrices
- AMM input metering and PAFL source point now user selectable
- LPF default value is 10kHz
- Bank view is displayed on the Processing Screen when no channel is selected (dual-screen Surface only)
- IP controller faders and rotaries have the option for Audio Taper or a user defined range
- Input preamp Gain and Trim values shown on LCD
- Tap for quick assign of User Meters

Fixes

ID5179	Input pan to stereo groups doesn't work if no Mains in Mixer Config
ID5281	Director – Stereo channels and mixes not displaying as stereo on LCD
ID5887	Certain Unicode characters in a file path could prevent Director successfully storing a Show
ID5888	Director – Touch issues with latest MacBook Pro Trackpad
ID5889	Director – "Last Recalled Scene" doesn't reflect MIDI Scene recall

Several other minor fixes and improvements.
V1.64 April 2018
Maintenance Release
Improvements

- MixRack Boot-Up: More robust at low temperatures.

Fixes

ID5079	In rare circumstances the touchscreen could crash when recalling a specific show or changing mixer configuration.

V1.63 February 2018
Maintenance Release
Improvements

- USB Record/Playback: Increased USB device compatibility.
- superMADI: Ability to accept MADI streams with high levels of jitter.

Fixes

ID5814	When a superMADI card is fitted in the MixRack, the touchscreen could crash if an external VGA monitor is connected and displaying the superMADI GUI.
ID5803	The touchscreen could stop responding if an FX unit input is patched from Direct Output 128
ID5759	Under certain circumstances the touchscreen could crash when changing users.

V1.62 December 2017
Maintenance Release
Improvements

- dB values added to Send Level soft rotaries in widget area

Fixes

ID5759	In rare circumstances the touchscreen could crash when changing User Profiles
ID5756	PEQ/Comp swap with INS B assigned results in level change
ID5748	In some circumstances the touchscreen can crash if a particular FX unit has SEL active & is visible on more than one screen
ID5729	Virtual Soundcheck: Record Send patching fixes.
ID5728	Widget area Aux Sends can link together after mixer configuration changes.
ID5651	Multiple cursor visibility fixes

V1.61 October 2017
Maintenance Release
Fixes

ID5673	Filter, Safe and Scene Update crosspoints not visible on some Macs
ID5674/ ID5705	DX enumeration improvements
ID5685	DX Link option card output patching offset
ID5693	Adjusting Send and Send-Pan parameters on IP controller rotaries could cause undesirable changes to the audio.
ID5708	SEL MIX PAFL Scene function on a softkey recalls wrong scene
ID5710	Pressing the "USB disk full" message can cause a crash

V1.60 October 2017
Feature Release
New features

- Multi-Surface
    - Up to 4 Surfaces can be connected to a single MixRack
    - Gain tracking
    - Partial show recall option (surface only)
    - Show based "role" system with discrete scene ranges and filters
- DEEP Auto Mic Mixer (AMM)
    - Up to 64 channels into 1,2 or 4 zones
    - AMM soft rotaries, soft keys and widgets
- New DEEP Compressor: "Mighty"
- New DEEP Preamp: "Tube Stage"
- Support for new hardware:
    - DM0
    - DX Hub
    - DX Link
    - GPIO
    - IP1
- Cascade Mode for DX168

- Source selector and scene select for IP controllers
- Director access over internet/WAN

Improvements

- Echo FX Unit – noise can now be turned ON/OFF
- Recall filter – copy and paste functionality added
- Scene pages GUI – improved responsiveness

Fixes

ID3396	gigaACE improvements.
ID4523	Recall filter icon could display when no recall filter present.
ID4854	In rare circumstances a Scene Update could cause a MixRack crash.
ID5132	Network traffic could sometimes pass through Waves3 I/O module.
ID5282	Several gigaACE improvements.
ID5319	Un-patching an active channel from VSC breaks the GUI gain control.
ID5401	Surface output polarity doesn't work after reboot.
ID5469	Relative faders to main Scene updates would be treated as absolute.

Several other minor fixes and improvements.
Note: dLive Director 1.60 for Mac requires Mac OS X 10.10 or higher.
V1.52 September 2017
Maintenance release
Several fixes – please refer to **V1.52 Release Notes** for details on fixes and improvements.

V1.51 August 2017
Maintenance release
New features

- Support for new superMADI module

Several fixes – please refer to **V1.51 Release Notes** for details on fixes and improvements.

V1.50 May 2017
Feature Release
New features

- Multiple scene system improvements:
  - Scene import from USB & User show files
  - Scene update: Manual and Auto Tracking modes
  - Scene update: Absolute and Relative level modes
  - Wider range of Update and Global Safe parameters
  - New GUI for Update and Global Safe functions

- MIDI over TCP/IP Protocol for 3rd party control
- Mains channel strip ganging in "Individual" mode
- Support for new AES module
- Support for new DX168 Remote Expander (Cascade mode not supported in 1.50)

Several fixes – please refer to **V1.50 Release Notes** for details on fixes and improvements.
V1.42 April 2017
Maintenance release
Fixes

ID3742	In rare circumstances a MixRack could lose connection to Surface/Director/IP Controllers

V1.41 March 2017
Maintenance release
Improvements

- Addition of a 3-band mode to the Dyn8 multiband compressor.
- Per band In/Out buttons in the Dyn8 multiband compressor now fully bypass the multiband processing, thus avoiding phase distortion.
- Improvements to system responsiveness and management of network traffic.

Several fixes – please refer to **V1.41 Release Notes** for details on fixes, improvements and known issues
V1.40 January 2017
Feature release
New features

- Virtual Soundcheck mode
- DCA spills
- Dyn8 insert-able dynamic engine
- DEEP Processing Peak Limiter 76
- Multistage ducking
- Dimension Chorus effect
- 3rd screen view on VGA output
- Support of dLive C Class products and fibreACE audio networking card

Several other improvements and fixes – please refer to **V1.40 Release Notes** for details on fixes and improvements.
V1.31 September 2016
Maintenance release
Several fixes – please refer to **V1.31 Release Notes** for details on fixes and improvements.
V1.30 July 2016
Feature release
New features

- Support for IP6 and IP8 Remote Controllers
- Support for Waves V3 and gigaACE audio networking cards
- MixRack and Surface Network settings are now available in Director when in online mode

Several fixes – please refer to **V1.30 Release Notes** for details on fixes and improvements.
V1.21 June 2016
Maintenance release
Several fixes – please refer to **V1.21 Release Notes** for details on fixes and improvements.
V1.20 June 2016
Feature release
New features

- dLive Director software for Mac and Windows

- Dual-Stage Valve Preamp

- 5.1 Main mode

- 8 Mute Groups

- User defined meter ballistics and Peak Hold

- Multi PAFL Bus

Several other improvements and fixes – please refer to **V1.20 Release Notes** for details on fixes and improvements.
V1.11 March 2016
Maintenance release
Several fixes – please refer to **V1.11 Release Notes** for details on fixes and improvements.
V1.10 January 2016
Feature release
New features

- DX32 support – Up to 3 DX32 modular I/O expanders can be connected to a dLive system.

- ME-1 names and stereo links – Channel names and stereo links are now communicated over the Monitor port to connected ME-U and / or ME-1 units.

- I/O Port card discovery and settings – Cards fitted to the I/O Ports are now listed on the relevant screens and their options displayed.

Several fixes – please refer to **V1.10 Release Notes** for details on fixes and improvements.
V1.03 December 2015
Maintenance release
Several fixes – please refer to **V1.03 Release Notes** for details on issues fixed.
V1.02 November 2015
Maintenance release
New features and improvements
ID1225 PAFL Delay time increased, now up to 170ms.
ID1149 Fader calibration added.
ID1279 Contextual Help added.
Several fixes – please refer to **V1.02 Release Notes** for details on issues fixed.
V1.0 September 2015
This was the first public release of dLive firmware.

Firmware Release Notes V1.91

Documents / Resources

ALLEN HEATH dLive S5000 Control Surface For MixRack [pdf] Instructions
dLive S5000 Control Surface For MixRack, dLive S5000, Control Surface For MixRack, Surface For MixRack, For MixRack