# Software Changelogs

# Dirac Live®

## Dirac Live 3.1.2

2021-09-22

### Fixes

- Fix phase correction issue on macOS.

### Features

- Add option to disable delay and gain compensation.

### Download

Windows: https://artifacts.connect.dirac.com/public/accord/release/win64/diraclive-v3.1.2-setup.exe
macOS: https://artifacts.connect.dirac.com/public/accord/release/macOS/diraclive-v3.1.2-setup.zip

## Dirac Live 3.1.1

2021-08-19

### Fixes

- Fix issues related to loading projects
- Fix broken snapshot in Dirac Live Bass Control
- Fix unmanaged channels in Dirac Live Bass Control

### Features

- Better handling of correlated source material in Bass Control filter design
- Add ability to delete device filters from Accord

### Download

Windows: https://artifacts.connect.dirac.com/public/accord/release/win64/diraclive-v3.1.1-setup.exe
macOS: https://artifacts.connect.dirac.com/public/accord/release/macOS/diraclive-v3.1.1-setup.zip

## Dirac Live 3.0.14

2021-03-18

### Added

- Windows installer does not require admin privileges
- Possible to change microphone calibration without discarding existing measurements
- Improved behavior of maximized window

### Fixes

- Updated volume calibration appearance
- Various crashes (e.g. after making a measurement, or after exporting a filter)

### Download

Windows: https://artifacts.connect.dirac.com/public/accord/release/win64/diraclive-v3.0.14-setup.exe
macOS: https://artifacts.connect.dirac.com/public/accord/release/macOS/diraclive-v3.0.14-setup.zip

## Dirac Live 3.0.13

2020-12-14

### Added

- Installer now supports unattended usage.

### Fixes

- Fixed problem with missing "MSVCP140_1.dll" introduced in 3.0.12.
- Fixed issue with non-responsive select Dirac Live Bass Control button.
- Fixed crash on macOS when user exited through "CMD+Q"
- Fixed issue where the rightmost curtain could not be dragged to the right.

### Download

Windows: https://artifacts.connect.dirac.com/public/accord/release/win64/diraclive-v3.0.13-setup.exe
macOS: https://artifacts.connect.dirac.com/public/accord/release/macOS/diraclive-v3.0.13-setup.zip

## Dirac Live 3.0.11

2020-11-16

## Fixes

- Improved resilience to clock drift.
- Use port 443 when communicating with cloud services.

## Download

Windows: https://artifactory.dirac.services/artifactory/live/win/update/release/DiracLive%20v3.0.11%20Setup%20Windows.exe
macOS: https://artifactory.dirac.services/artifactory/live/mac/update/release/DiracLive-v3.0.9-Setup-Darwin.zip

# Dirac Live 3.0.9

2020-10-07

## Fixes

- Fixes connection issue to miniDSP units introduced in Dirac Live 3.0.8.
- Fix rare issue with normalization that could cause an incorrect subwoofer gain.
- Make start of recording more robust. In rare situations the start of the recording was missing causing an incorrect result for the first speaker.

## Download

Windows: https://artifactory.dirac.services/artifactory/live/win/update/release/DiracLive%20v3.0.9%20Setup%20Windows.exe
macOS: https://artifactory.dirac.services/artifactory/live/mac/update/release/DiracLive-v3.0.9-Setup-Darwin.zip

# Dirac Live 3.0.8

2020-09-30

## Added

- Option to set countdown before measurement starts

## Fixes

- Proper fix for Motu sound cards
- Increase timeout on filter transfer
- Drag area for crossover bar increased
- Loading a target curve will no longer affect curtains or crossovers
- Fix export filter problem introduced in Dirac Live 3.0.7

## Download

Windows: https://artifactory.dirac.services/artifactory/live/win/update/release/DiracLive%20v3.0.8%20Setup%20Windows.exe
macOS: https://artifactory.dirac.services/artifactory/live/mac/update/release/DiracLive-v3.0.8-Setup-Darwin.zip

# Dirac Live 3.0.5

2020-09-01

## Added

- Limit numbers of snapshots to reduce project file size

## Fixes

- Fix problems connecting to mic on Motu sound cards
- UI fixes and improvements
- Crash fix on device timout

## Download

Windows: https://artifactory.dirac.services/artifactory/live/win/update/release/DiracLive%20v3.0.5%20Setup%20Windows.exe
macOS: https://artifactory.dirac.services/artifactory/live/mac/update/release/DiracLive-v3.0.5-Setup-Darwin.zip

## Dirac Live 3.0.4

2020-08-17

### Added

- Indication of which user is logged in
- Handle gain alignment even if the gain difference is large than the model supports

### Fixes

- Improve server connection stability

### Download

Windows: https://artifactory.dirac.services/artifactory/live/win/update/release/DiracLive%20v3.0.4%20Setup%20Windows.exe
macOS: https://artifactory.dirac.services/artifactory/live/mac/update/release/DiracLive-v3.0.4-Setup-Darwin.zip

## Dirac Live 3.0.2

2020-07-06

### Fixes

- Improve LFE correction in DLBC
- Level bar logic incorrect when master volume is reset
- Select new arrangement makes all measurement disappear

### Download

Windows: https://artifactory.dirac.services/artifactory/live/win/update/release/DiracLive%20v3.0.2%20Setup%20Windows.exe
macOS: https://artifactory.dirac.services/artifactory/live/mac/update/release/DiracLive-v3.0.2-Setup-Darwin.zip

## Dirac Live 3.0.0

2020-06-03

### Added

- Official Dirac Live Bass Control support
- Updated user interface
- Keyboard input for text fields
- User feedback during Bass Control calculations
- Ability to view measured spread
- Unofficial support for macOS 10.11, 10.12 and 10.13

### Fixes

- Installation/Uninstallation is fixed for Windows
- Improved stability

### Download

Windows: https://artifactory.dirac.services/artifactory/live/win/update/release/DiracLive%20v3.0.0%20Setup%20Windows.exe
macOS: https://artifactory.dirac.services/artifactory/live/mac/update/release/DiracLive-v3.0.0-Setup-Darwin.zip

## Dirac Live 2.5.3

2020-04-17

### Fixes

- Filter export issue for some sample rates

### Download

Windows: https://artifactory.dirac.services/artifactory/live/win/update/release/DiracLive%20v2.5.3%20Setup%20Windows.exe
macOS: https://artifactory.dirac.services/artifactory/live/mac/update/release/DiracLive-v2.5.3-Setup-Darwin.zip

## Dirac Live 2.5.2

2020-04-08

### Added

- Improved backward compatibility with older projects
- Improved filter calculation stability
- Improved delay and gain stability
- Improved speaker bandwidth detection
- More convenient arrangement selection

### Fixes

- Minor graphical issues
- Visualization of the corrected system

## Dirac Live 2.4.0

2020-02-07

### Added

- More convenient arrangement selection
- Improved log in functionality. Logging out now disconnects the user from the device.
- Improved functionality when resuming session.
- Improved backward compatibility with older projects.
- Improved filter calculation stability
- Next position is automatically suggested during measurement.

### Fixes

- Save function revisited
- Show correct coordinates in impulse response view
- Calibration file loading problem
- Minor graphical issues

## Dirac Live 2.3.0

2019-11-13

### Added

- Allow to load project created by another user
- Allow to load project on same model and configuration but different device
- Chinese language support
- Accessibility option for colour vision deficiency
- Quick commands (visible in menu)
- Exit option in menu

### Fixed

- Will no longer crash when selecting device using a MacBook older than 2013
- Some input devices were listed more than once in Select recording device page

## Dirac Live 2.2.3

2019-06-28

### Added

- Number of plot points in filter design graph have been increased
- Warn user if project has too few measurements
- Warn user when loading a project saved with a more recent version than currently used

**Fixed**

- "Unknown error 11(11) the file might be corrupted when loading a project" or "Failure reading project file" after updating to BluOS 3.4.13
- "An error with code 2 (invalid argument) occurred when initializing filter export" after updating to BluOS 3.4.13
- Corrected curve does not follow target curve for single channels
- Blurry GUI for some users on macOS Mojave
- Crash after loading a project and getting "DataIntegrity: Serialisation error"
- Crash when selecting "Retry with low quality settings" after making measurements
- Messages after fw update (UUID change) made more user friendly
- Empty error dialogue and application freeze when loading a project without umik connected

## Dirac Live 2.2.2

2019-05-14

### Fixed

- No sound registered when using USB-microphone on macOS Mojave – requires access to microphone

## Dirac Live 2.2.1

2019-05-09

### Added

- Drag Group into another Group in Filter design
- Enable exporting filter to identical device/configuration when using same account
- Extended logging for improved troubleshooting
- Quick Start Guide

### Changed

- Windows surface improvement – better support to zoom and navigation bar

- Success toasts now close automatically
- Remember most recent path when loading microphone calibration file
- Remember and restore window size and position
- General GUI improvements

### Fixed

- Improved UPnP device discovery
- Issue that could cause off center stereo image
- Installation issues for Windows
- Registry keys not deleted when uninstalling
- Under certain conditions application would crash on start using Win10
- "Requested file could not be accessed" when saving a project after filter export
- "LicenseError DuffResult" when proceeding to Filter design – could occur if computer clock/timezone was incorrect

## Dirac Live 2.2.0

2019-02-26

### Added

- **dB labels in volume calibration**
  All sliders and VU meter level bars have numeric labels showing min, max and current dB values.
- **High-contrast themes**
  The user can switch between a bright and a dark high-contrast theme in addition to the existing low-contrast theme. The application defaults to one of the high-contrast themes.
- **Manual IP**
  The option to manually enter the IP address of a device to connect to has been added.
- **Support for separate and independent recording devices**
  Dirac Live now supports using recording devices on the same network in addition to microphones connected to the active device or local computer.
- **Project name in application title bar**
  The name of the most recently loaded or saved project is provided in the top area ("title bar") of the application.
- **Auto-save project**
  The program is automatically saved to an autosave file (one file per device) after each measurement and every time a new filter has been calculated.

- **Warning about unsaved changes**
  The user is warned if there are changes to measurements or filter design when exiting the program or loading a project, and will have to confirm the action.
- **Load project from command-line**
  A project filename can be provided as a command-line argument to be loaded when the corresponding device is selected.

## Changed

- **Better fit for localized texts**
  The interface will adjust to accommodate the length of localized texts for improved readability and presentation.
- **Loud volume timeout indicator**
  The safety lock for the loud playback master volume slider in the volume calibration step now has a visual indicator showing time remaining until the slider is re-locked.
- **Visibly interactive channel groups**
  The interactivity of the channel groups in filter design has been made more discoverable and visible.
- **Removed the asterisk from recording devices**
  The | (asterisk) icon that indicated a default device has been removed from the recording device cards in the select recording device step.
- **Selected success toasts are persistent**
  Notifications for successfully measured a position or exporting a filter will not time out and must be manually dismissed.

## Fixed

- Improved the descriptions of some confusing error messages (issue 142)
- Fixed crash when disconnected from network (issue 166)
- Fixed crash when attempting to load a target curve from a .txt file that did not contain target curve data (issue 228)
- Fixed that the impulse and magnitude responses were not visible after a position is re-measured (issue 243)
- Fixed that some texts did not fit inside their widget areas at larger text sizes (issue 254)
- Fixed a ski-jump ramp behaviour in the target curve close to the high frequency curtain (issue 260)
- Clarified the sample rate information (issue 274)
- Fixed that microphones connected through a USB dongle on a Mac computer were not detected as recording endpoints (issue 279)
- Fixed incorrect message that the microphone had been disconnected (issue 282)
- Fixed problems when logging in to account when already in an anonymous session using an Arcam device (issue 287)
- Fixed that the log-in page became locked when there was an error during an attempted log-in (issue 294)
- Fixed a startup crash on Mac when CoreAudio reported zero input and output channels (issue 302)
- Relaxed screening restrictions to allows devices with an empty *friendly name* field (issue 324)
- Fixed crash bug when exporting filters to Arcam or NAD T758 devices (issue 370)

# Dirac Live 2.1.2

2018-12-21

## Added

- **Show device UUID and and allow it to be copied to clipboard**
  The session ID is shown in relevant error dialogues. It can be copied to be pasted in communications with customer support.
- **Warn anonymous users that their measurements might be lost if not logged in**
  Once only every time the application is run and the user is not logged into the Dirac account, a warning message is shown when a measurement is completed that the user should log in before saving the project.

## Changed

- **Increase contrast in volume calibration**
  The channel columns and level meter colours in the volume calibration step have been reworked for higher contrast and readability. The meters have been increased in size.
- **Increase contrast in measurement plot**
  The contrast of the curves in the measurement step's plot have been ramped up significantly.
- EULA has been updated with information about saving and retrieving measurements.

## Fix

- Problems when going from one speaker to another during volume calibration if not pressing stop
- When loading a target curve the GUI becomes transparent
- Navigation texts difficult to read (too small)
- Success toast is not persistent

# Dirac Live 2.1.1

2018-12-10

## Added

- **Application feedback during boot**
  Splash screen added at start-up to indicate that the application is loading.
- **Speaker groups are named and numbered.**
  Speaker groups having names makes the relation between menu option and group affected clearer when saving and loading target curves.

## Changed

- **Difficult to see text files containing saved target curves**
  The Load Target Curve dialogue now shows .txt files by default alongside those with .targetcurve extension.
- **Enabling a filter from the sidebar**
  The filter section of the sidebar has been redesigned with less ambiguous icons.
- **Improved filter export step**
  The filter export interface has been made more instructive and is clear about that a slot must be selected before exporting to the device.

## Fix

- Application handles the situation of loading a project saved under a different configuration and displays an error.
- Fixed readability issue with the Hertz limits in Filter Design were difficult to see for certain colours.
- The headers in Filter Design's options box are more readable.
- The warning message about missing microphone when loading a project is no longer an error dialogue.
- Filter is now automatically recalculated after loading a target curve.
- Multiple confirmations for the same microphone has been joined to only one message.
- Crash when removing mic in loaded project and using the arrows to go back to previous application steps fixed.
- Fix for Qt bug where macOS version of program crashes on start.
- Fixed issue where a blank space before or after username made it impossible to log in.
- Fixed issue with pink noise continued playing when proceeding from Volume Calibration to Select Arrangement without pressing stop

# Dirac Live® Processor

2021-12-09

## Dirac Live Processor 1.5.4

### Added

- Start minimized option added for standalone
- Built for Apple Silicon, universal MacOS binary

### Fixed

- The installer did not uninstall the old audio driver before installing the new driver on windows
- No signal when select multichannel configurations with less speakers than available channels
- Glitch when changing audio sources on MacOS standalone fixed
- MacOS standalone sample rate handling improvements

### Download

macOS: https://artifactory.dirac.services/artifactory/live/porter/mac/update/release/DiracLiveProcessor-1.5.4-Darwin.pkg
Windows 32 bit: https://artifactory.dirac.services/artifactory/live/porter/win/update/release/DiracLiveProcessor-1.5.4-win32.exe
Windows 64 bit: https://artifactory.dirac.services/artifactory/live/porter/win/update/release/DiracLiveProcessor-1.5.4-win64.exe

2021-10-18

## Dirac Live Processor 1.5.1

### Fixed

- fixed a bug where it was impossible to change device setting in Standalone Windows

### Download

macOS: https://artifactory.dirac.services/artifactory/live/porter/mac/update/release/DiracLiveProcessor-1.5.1-Darwin.pkg
Windows 32 bit: https://artifactory.dirac.services/artifactory/live/porter/win/update/release/DiracLiveProcessor-1.5.1-win32.exe
Windows 64 bit: https://artifactory.dirac.services/artifactory/live/porter/win/update/release/DiracLiveProcessor-1.5.1-win64.exe

2021-10-13

## Dirac Live Processor 1.5.0

### Added

- Standalone version for MacOS
- 7.1.4 and 9.1.4 multichannel configurations
- Custom gain configfile setting

### Fixed

- incorrect multichannel configuration after restart host error fixed

### Download

macOS: https://artifactory.dirac.services/artifactory/live/porter/mac/update/release/DiracLiveProcessor-1.5.0-Darwin.pkg
Windows 32 bit: https://artifactory.dirac.services/artifactory/live/porter/win/update/release/DiracLiveProcessor-1.5.0-win32.exe
Windows 64 bit: https://artifactory.dirac.services/artifactory/live/porter/win/update/release/DiracLiveProcessor-1.5.0-win64.exe

2021-09-24

## Dirac Live Processor 1.4.15

### Fixed

- Plugin could crash when removed from host or when quit host, this is now fixed.

### Changed

- macOS needs to be at least version 10.14

### Download

macOS: https://artifactory.dirac.services/artifactory/live/porter/mac/update/release/DiracLiveProcessor-1.4.15-Darwin.pkg
Windows 32 bit: https://artifactory.dirac.services/artifactory/live/porter/win/update/release/DiracLiveProcessor-1.4.15-win32.exe
Windows 64 bit: https://artifactory.dirac.services/artifactory/live/porter/win/update/release/DiracLiveProcessor-1.4.15-win64.exe

2021-01-28

## Dirac Live Processor 1.4.0

### Added

- Standalone version for Windows
- 7.1 and 7.1 SDDS surround configuration

### Fixed

- 7.1 surround rear and side channel configuration error during the measure process
- Show about window could crash some 32 bit hosts

### Download

macOS: https://artifactory.dirac.services/artifactory/live/porter/mac/update/release/DiracLiveProcessor-1.4.0-Darwin.pkg
Windows 32 bit: https://artifactory.dirac.services/artifactory/live/porter/win/update/release/DiracLiveProcessor-1.4.0-win32.exe
Windows 64 bit: https://artifactory.dirac.services/artifactory/live/porter/win/update/release/DiracLiveProcessor-1.4.0-win64.exe

2020-10-26

## Dirac Live Processor 1.3.15

### Fixed

- Measuring could fail when using tiny buffer size, this is now fixed

**Download**

macOS:
Windows 32 bit:
Windows 64 bit:

2020-10-22

## Dirac Live Processor 1.3.14

**Fixed**

- macOS installer could put the Audio Unit plug-in in the wrong directory, this is now fixed

**Download**

macOS:
Windows 32 bit:
Windows 64 bit:

2020-10-19

## Dirac Live Processor 1.3.13

**Added**

- Login window

**Fixed**

- Audio Unit and AAX multichannel order bug
- Port number in about window always show port number 0

**Download**

macOS:
Windows 32 bit:
Windows 64 bit:

2020-10-01

## Dirac Live Processor 1.3.12

**Fixed**

- Can now be used without realtime control in the host Audirvana on Windows
- Fixed a bug where Dirac Live Processor could start in a saved project with filter active even if filter were saved as disabled.

2020-09-14

## Dirac Live Processor 1.3.11

**Added**

- Rest API

**Fixed**

- Multiple instances of the VST plugin in Ablton Live could make application hang on macOS
- Could crash on Audirvana on macOS

2020-09-04

## Dirac Live Processor 1.3.10

### Added

- 5.0.2 and 5.1.2  channel configuration support

### Fixed

- Dirac Live could not find Dirac Live Processor when using the host Ableton Live on macOS, this is now fixed

2020-08-31

## Dirac Live Processor 1.3.9

### Fixed

- Previous version could crash Logic on macOS, this is now fixed.

### Known Problems

- Dirac Live can not find Dirac Live Processor when using the host Ableton Live (v 10.1.18) on macOS.

2020-08-24

## Dirac Live Processor 1.3.8

### Fixed

- Previous version introduced an error that made it not work as intended without a multichannel license.

### Known Problems

- Dirac Live can not find Dirac Live Processor when using the host Ableton Live (v 10.1.18) on macOS.

2020-08-21

## Dirac Live Processor 1.3.7

### Fixed

- Improve authentication server connection stability.
- Gain and delay compensation could appear as active, but were inactive after opening a saved host project.

### Known Problems

- Dirac Live can not find Dirac Live Processor when using the host Ableton Live (v 10.1.18) on macOS.

2020-06-26

## Dirac Live Processor 1.3.5

### Fixed

- Host state of multichannel drop-down bug.
- Pro Tools and Logic plugin cache could cause problem when upgrading from a stereo to multichannel license.

### Known Problems

- Dirac Live can not find Dirac Live Processor when using the host Ableton Live (v 10.1.15) on macOS.

2020-06-24

## Dirac Live Processor 1.3.4

**Added**

- 3.1 channel configuration support
- Logfile
- New Dirac logos

**Fixed**

- Host remember state of multichannel drop down
- Login problem when hostname contains special characters
- No signal label could show up if sample frequency is 192kHz

**Known Problems**

- Dirac Live can not find Dirac Live Processor when using the host Ableton Live (v 10.1.15) on macOS.

## Dirac Live Processor 1.3.2

2020-06-08

### Added

- Multichannel support

### Fixed

- Changed AAX plugin category label from "Dynamics" to "EQ"

### Known Problems

- Dirac Live can not find Dirac Live Processor when using the host Ableton Live (v 10.1.13) on macOS.

## Dirac Live Processor 1.2.6

2020-05-14

### Fixed

- Problem with measuring room using 192kHz samplerate.
- When running multiple instances, all instances can now be found by Dirac Live application.

### Known Problems

- Dirac Live can not find Dirac Live Processor when using the host Ableton Live (v 10.1.14) on macOS.

## Dirac Live Processor 1.2.5

2020-04-16

### Fixed

- No longer crashes when using with Pro Tools on macOS Catalina.

### Known Problems

- Dirac Live can not find Dirac Live Processor when using the host Ableton Live (v 10.1.9) on macOS.

## Dirac Live Processor 1.2.3

2020-03-31

### Added

- Bypass filter when rendering.

**Fixed**

- User could appear as not logged in even if logged in.
- Gain and delay compensation is now turned off when filter is switched off.
- Under some circumstances a click could be heard when switching filter.

**Known Problems**

- Dirac Live can not find Dirac Live Processor when using the host Ableton Live (v 10.1.9) on macOS.

# Dirac Live Processor 1.2.2

2020-03-12

**Fixed**

- In some situations the filter being transferred would not be activated directly after transfer, this is now fixed.

# Dirac Live Processor 1.2.0

2020-02-28

**Fixed**

- Gain and delay compensation bugfix.
- Notarized for macOS Catalina.

# Dirac Live Processor 1.1.0

2020-02-12

**Fixed**

- Will no longer crash when switching between filters when audio stream is 96 or 192kHz.

# Dirac Live Processor 1.0.3

2020-01-09

**Fixed**

- If the windows user name contains a wide char, like åäö, the filter export could fail, this is now fixed.

# Dirac Live Processor 1.0.2

2019-12-19

**Fixed**

- Individual speaker volume calibration bugfix

# Dirac Live Processor 1.0.1

2019-12-13

**Fixed**

- Will no longer crash when using it with Ableton Live on macOS
- Will no longer crash when changing filter in JRiver Media Center 25