



Commercial Sound Processor v2.2
PowerSpace+ Firmware v2.2
Bose Professional Configuration Utility v2.2

Overview

These notes address the notable changes and information about v2.2 for Commercial Sound Processor (CSP) processors, PowerSpace+ Amplifiers and the Configuration Utility for PC/MAC. Version 2.2 is a feature release that improves the current versions of firmware with the following list of new features, Changes and defect fixes.

New Features

1. Added Input Mixing to Listening Areas
 - a Input Mixing is configured in listening areas by enabling the allow input mixing checkbox
 - b Input mixing allows multiple simultaneous sources per mix, and users select the active mix using the web browser interface or a controller
 - c A meter is available showing signal activity on each selected input
 - d Controllers (CC-3D or CSR tablets) are still assigned to the listening area. The listening area sections "area gain (dB)" section, which can be thought of as a master fader for the active input mix, is what is controlled by the level knob on a CC-3D or other controller.
 - e Users can now choose whether a mic is paging or not. If paging is enabled, the user would turn on 'area paging' for that entire listening area, and that mic will duck 'whatever' single-source or input mix is playing, meaning whether the CC-3D controller is set to any of the A/B/C/D positions, that paging mic will duck in. Alternately if you select a microphone with the paging switch off, it can be added to input mixes and selected for some, but not all of the A/B/C/D source selections. With paging off, that microphone would not 'duck' the other audio but instead be blended at the levels set in the input mixes section of the listening areas section.
 - f Users should note that you cannot perform live mixing with CC-xD wall or CSR tablet controllers with this v2.2 release. Instead, input mix gain/level relationships must be set within the configuration screen in the web browser. Opti-Source level-management is supported within mixes and recommended for applications with different users using the same microphone. This can be selected from the inputs section of configuration.
 - g JSON file format updated to support multi-source mixing
 - h Scheduler supports multi-source mixing
 - i -3dB gain applied to stereo --> mono mix, so stereo selections aren't artificially loud



- 2. New Loudspeaker presets
 - a EdgeMax-LP (including SmartBass presets)
 - b AMU 108-120, AMU 208-120
- 3. Added new Amplifiers to CSP > Outputs Amplifier Models list
 - a PSX amplifiers
 - b PowerShareD
- 4. New 3rd Party Control Serial Control Protocol v1.0 document
 - a Allows control of CSP from 3rd party control systems

Changes

- 1. Discovery Tool updated to Bose Professional Branding

Defect Fixes

- 1. Fixed issue with P+ devices changed selected CC-1/2/3 devices to a different model (Such as CC-1 choice changed to CC-2) while navigating the configuration screens
- 2. Fixed defect where P+ Device goes in standby mode and clears the design, if user changes filters for Area EQ in listening Area.
- 3. Fixed defect where Bose Professional Configuration Utility tool was allowing some listening areas to be assigned more than once on a given schedule
- 4. Fixed a UI issue where with CSP + CC-3D it will stay muted unless you change area gain min away from -60, while listening area screen is open on web browser
- 5. Fixed an issue where clicking on "General" tab in Settings causes a date-time update to firmware
- 6. Fixed an issue with P+ amplifiers, when the "The amplifier is in standby mode..." notification was shown to users at inappropriate times.

Supported Web Browsers

Browser	Minimum Version Required
Chrome	91.0.4472 or later
Firefox	89.0.2 or later
Edge	14.1.1 or later

Known Issues, Defects, and Limitations

The following are the known issues and defects with this release. The information included here can be useful when troubleshooting issues with software or hardware operations.

General Issues



1. Typing manual values in boxes in webui (or Bose Professional Configuration Utility) times out in 500ms, so manual entry of values needs to be done rather quickly by users
2. Typing out of bounds values, such as 80,000 hz in an EQ will tell the firmware to go to the nearest minimum or maximum, however the entry box may stay with the 80,000 hz value visible, until you change tabs or refresh the browser, at which time that number will reflect the minimum or maximum (such as 20,000 Hz).
3. In some cases, the Speaker EQ graph (under Output configuration) may not display all EQ parameters – but the correct EQ is in the signal path.
4. P+ may stop functioning in isolated issues with Power LED flashing red, if this occurs, restart the device by pulling the power cable.
5. If you have previously calibrated AutoVolume for a listening area and then choose to recalibrate, the previous calibration is not removed until Step 3 of the calibration process is reached.
6. Back-tracking in Quick Setup Wizard Output configuration may cause channels to become un-assignable. To avoid this, simply exit and restart the Quick Setup Wizard.
7. With some browsers, the initial Dynamic EQ calibration level may begin as high as (0 dB). It is recommended that users ensure a value of -30 dB or less is used for the initial calibration screen.
8. AutoVolume metering may not display if AutoVolume is turned ON by CSR or Scheduled Event. Refreshing the browser after AutoVolume is turned ON will have the AutoVolume metering begin to display.
9. The Dashboard View may not automatically refresh to reflect changes made (i.e. source change). If this happens, the user should refresh the browser for the Dashboard to fully reflect current settings.

Discovery Tool

1. If PC being used to configure the CSPs has a dual NIC setup where user is on WiFi and using a Link Local direct connection, the Discovery Tool will be unable to identify the IP address of the CSP. To resolve this, disable the NIC not connected to the network with the CSP or PowerSpace+ device(s).