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# SOFTWARE UPDATE

## SDP-80 SOFTWARE RELEASE V4.4.5

WAVEFORMING EXPANSION, IMPROVED OPTIMIZATION, AND ADDITIONAL JBL SYNTHESIS AEQ SPEAKER TUNING PROFILES.

**OCTOBER 14, 2026**



## Overview

Software version 4.4.5 brings WaveForming expansion, improved optimization, new Bass Management alignment options, and additional JBL Synthesis AEQ speaker tuning profiles.

This software update is available to SDP-75 and SDP-80 owners at no cost.

## New Features

### Enables WaveForming on all SDP-75 and SDP-80 units.

Introduces WaveForming compatibility on all SDP-75 and SDP-80 units, providing greater flexibility for advanced room calibration workflows.

### WaveForming for Front-Only Subwoofer Systems

WaveForming now supports front-only subwoofer systems, beginning with a two-subwoofer configuration.

In this configuration, the front subwoofers reproduce bass content and help absorb reflections from the rear wall. Although seat-to-seat consistency may be lower than with systems that use rear subwoofers, a front-only configuration can still significantly reduce low-frequency decay.

This option is particularly useful in rooms where the listening area is too close to the rear wall to accommodate a traditional WaveForming layout with rear subwoofers.

### Bass Management Alignment

A new Bass Management alignment setting allows the Optimizer to prioritize selected loudspeakers when calculating bass management filters.

| OPTION | PRIORITY | RECOMMENDED USE |
|---|---|---|
| **Default** | All speakers | Maintains the previous behavior, with all speakers considered during optimization. |
| **L, R, C** | Left, right, and center | Recommended for home theater systems that prioritize center-channel performance while maintaining a balance between cinema and stereo playback. |
| **L, R** | Left and right | Recommended for systems where stereo performance is the priority. |
| **C** | Center | Recommended for home theater systems where center-channel and dialogue performance is the primary focus. |

## Improvements

### WaveForming Optimization

New presets created from a built-in preset, and recalculated existing presets now use the improved WaveForming optimization algorithm. The updated optimization provides more reliable and stable performance and more natural-sounding bass by using filters that more closely reflect the room's physical behavior.

Previously, two closely spaced settings could produce substantially different results for seat-to-seat consistency and decay because the definition of the "useful signal" was not sufficiently adaptive. Version 4.4.5 delivers more predictable results for the selected settings and reduces extreme variations.

### Bass Management Delay Alignment further improved

Provides further improvement in terms of subwoofer time alignment. This follows the already improved algorithms provided in software version 4.3.1 from April 2023. To recompute your bass management delay with the new algorithm, you must edit at least one bass management setting (crossover frequency, slope, type of filter…) to recompute the bass management delays with the new algorithms. From an existing preset without any manually dialed-in time alignment, there should not be any unexpected consequences. However, if you have manually tuned your system, including manual adjustment of output delays, follow our recommendations and make sure your previous settings are backed up.

### Faster Computation Time

Our work to reduce the extremely CPU-intensive computation time of WaveForming has trickled down to the Optimizer, reducing the computation time by about 40%. This improvement will be valuable to professional calibrators and users who like to regularly fine-tune the Optimizer settings.

## Optimizer Graph Generation and Display Smoothing

In addition to the computation time optimization, we brought two enhancements to the Optimizer Graph Display smoothing function (the top line of the Optimizer's Advanced Settings):

- The Smoothing can now be set to 1/96 octave
- A "No Graph" option disables most Optimizer Graph generation and further reduces the computation time.

## On-Screen Display Information

The on-screen display can show the listening format, codec, upmixer, active preset, source, video resolution, and video color information. These options are available in the HDMI menu.

## 10 new AEQ speaker tuning profiles:

| | |
|---|---|
| • **SCL-2XL** | • **SCL-9XL** |
| • **SCL-4XL** | • **SCL-10** |
| • **SCL-6XL** | • **SCL-10 2π** |
| • **SCL-7XL** | • **SCL-10XL** |
| • **SCL-9** | • **SCL-10XL 2π** |

# Additional Release Notes

### On-Screen Display Information

The on-screen display can show the listening format, codec, upmixer, active preset, source, video resolution, and video color information. These options are available in the HDMI menu.

### Optimizer and Calibration Enhancements

- Bass management delay alignment incorporates refined subwoofer time-alignment calculation. When recalculating a manually tuned system, first back up the existing preset and record any manually adjusted output delays.
- Optimizer computation is faster, benefiting professional calibrators and users who frequently refine system settings.
- Optimizer graph smoothing now supports resolutions as fine as 1/96 octave.
- A new **No Graph** option disables most Optimizer graph generation, further reducing computation time.

## Important Note

- Back up any presets and speaker tuning profiles that may be required before performing a factory reset.
- Front-only WaveForming configurations may provide less seat-to-seat consistency than systems using both front and rear subwoofer arrays.
- WaveForming performance remains subject to the physical limits of the room, subwoofer placement, and system configuration.

## Resolved Issues

- Resolved a CPU-load issue that could occur when downsampling 192 kHz content.
- Corrected an issue in which enabling Pre-Emphasis could affect Optimizer filters below the relevant bandwidth.
- Corrected the Bass Management polarity checkbox display so that it accurately reflects the applied setting.
- Reduced preset storage size associated with Pre-Emphasis data. Existing oversized presets require a new calibration to obtain the reduced size.
- Corrected a display issue in which PCM playback could show the format as “none.”
- Corrects factory-reset behavior so that existing presets and AEQ speaker tuning profiles are overwritten as intended.

## Software Information

### Identifying Software

The current software version is displayed on the unit's front panel.

With the unit powered on, press the **Menu** button and rotate the **Input** knob to select **About**. Press the **Select** button to view the device information.

## Remote Software Upgrades

**Important: JBL Synthesis Technical Support performs the software update remotely. A local technician must remain on site to monitor the process and help prevent interruptions. Before the update begins, back up the unit to a USB drive to preserve presets, calibrations, and source configurations. JBL Synthesis and Trinnov are not responsible for data lost during the update process.**

Submit the serial number of your SDP-80/SDP-75 and a software update request to JBL Synthesis Technical Support at csupport@harman.com

Technical Support is also available by phone Monday through Friday, 9:00 a.m. to 5:00 p.m. Eastern Time, at 1-888-691-4171.

Technical Support will send an email confirming the time window during which the update will be delivered to the unit.

Before the update begins, make sure the processor is powered on and connected to a network with internet access. Remove any USB drive from the unit. Do not power-cycle, operate, or interrupt the SDP-80 while the update is in progress. Technical Support may postpone the update until a backup has been completed.

Verifying the update on the front panel:

When the update is complete, "Update Finished" appears on the front panel.

Power-cycle the unit.

After the unit restarts, confirm that the Software Version field displays **Version: 4.4.5.x**. This indicates that the update was successful.