



DSP Concepts, LLC.

Audio Weaver 2.0

Release notes



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1. Introduction

The Audio Weaver from DSP Concepts, LLC., is an environment for developing optimized embedded audio software. It enables algorithm and product developers to more quickly and efficiently develop audio products and technology. The Audio Weaver is suitable for the entire lifecycle of an algorithm, from basic research, to optimization and productization, integration into end products, and ongoing legacy support. The Audio Weaver automates many of the mundane tasks associated with developing embedded algorithms and allows the designer to focus on creating new features and adding sophisticated functionality.

2. References

[1]	Audio Weaver User’s Guide, Rev – 0.6
[2]	Audio Weaver Programmer’s Reference, Rev – 0.1
[3]	Getting Started with Audio Weaver, Rev – 0.1

3. Application details

3.1. System Requirements

- PC with Windows XP SP2.
- Visual C++ 7.1 and above if user want to create their own custom modules and include them on PC target of Audio Weaver.
- MATLAB – if user wants to create systems with existing modules of Audio Weaver and to create custom modules.

3.2. Features:

- Cross platform approach speeds development
- Generates efficient code
- Full hierarchical design
- Script based and built upon MATLAB
- Real-time tuning using GUIs or MATLAB scripts
- Dynamic or static memory allocation
- Full regression testing capabilities
- Built-in MIPs and memory profiling

3.3. Installation Information

Audio Weaver is installed in the following directory by default:

/Program Files/DSP Concepts

The user may choose any other destination during the installation process.

The root directory of Audio Weaver Designer is Audio Weaver Designer.

The directories under Audio Weaver Designer are as follows:

bin	– Windows executables, Audio Weaver executable and module packs DLLs.
Doc	– All documentation.
Examples	– Pre programmed Audio Weaver Script (.aws) files and MATLAB scripts that implements various types of processing.
Include	– Header files for frame work.
matlab	– Audio Weaver MATLAB scripts.
ModuleLibs	– each modules pack has header files and MATLAB script files.
Subsystems	– Audio Weaver sub-systems MATLAB scripts.
VectorLib	– Vector functions header files.

3.4. Version 2.0.1 Release Notes

- Improved system build process.
- Added Effects Pack Modules.
- Added Advanced Audio Fract32 Modules.

3.5. Version 2.0.0 Release Notes

- Distinguished the Framework and Platform for easy porting of custom platforms.
- Added separate code and data sections for Framework and Modules.
- Improved Flash File System functionality.
- Added more Example modules.

Please report bugs to audioweaver.support@dspconcepts.com. Please specify the platform specifics (hardware/software) and version information as well as steps to reproduce the bug.

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