

# Ocean Swift Wavetable Compatibility Converter

Version 1.1.0

[Ocean Swift Synthesis](#)

*"You can't stop the waves, but you can learn to surf." — Duke Kahanamoku*

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## Introduction

The Ocean Swift Wavetable Compatibility Converter aims to enable musicians and sound designers to make use of wavetables that are available in a certain format and thus compatible with certain synths, in synths and modules that require a different format.

The application uses sinc interpolation with a kernel width of 512 samples for high-quality wavetable resizing. The interpolation is enhanced by a Hann window, which reduces edge artifacts and ensures smooth, artifact-free, extreme precision results for upsampling and downsampling between custom frame sizes. Output files maintain original amplitude fidelity and are scaled to peak levels for consistency.

## Installation and Quick Start

### Windows

**Important Note:** When running the app for the first time, Windows Defender SmartScreen may display a warning since the app is not code-signed. This is normal for independently distributed software and can be bypassed easily.

### **- Download and Unzip the App**

Download the app and unzip it to a location of your choice.

### **- Double-click the app's executable file (.exe) to run it.**

### **- SmartScreen Warning**

If a Windows Defender SmartScreen warning appears with the message “Windows protected your PC,” click More info.

### **- Run the App**

Click Run anyway to proceed with opening the app.

### **- Future Launches**

After you confirm the app once, subsequent launches should not trigger the warning, and you can run the app by simply double-clicking the executable.

## macOS

### **- Download, Unzip and Run ARM or Intel version**

Download the app and unzip it to a location of your choice and run the app.

### **- Confirm to Open**

Click Open to confirm. The logo will appear and then disappear, and then it might take a few seconds to launch.

## Linux

### **- Install System Dependencies**

```
sudo apt update
```

```
sudo apt install qtbase5-dev qtools5-dev-tools libxcb-xinerama0 libportaudio2 portaudio19-dev
```

### **- Download, Unzip and Run ARM or Intel version**

Download the app and unzip it to a location of your choice and run the app.

## Process

Either a single file or a folder can be loaded for processing. When a single file is selected for exporting, an exported file name dialog determines the resulting file name. When multiple loaded files from a folder are due for exporting, an exported folder name dialog determines the

base folder. When “All” is selected for the export frame size, subfolders are created for each possible frame size. In each of these subfolders a FolderInfo.txt file is created which contains the frame size for easier handling in Serum. The resulting file name in multiple file cases is derived from the original file name and the conversion details.

A loop point after the first cycle is embedded in each created file, helping in marking the frame size within the file itself for easier handling in synths such as Surge, VAZ Modular and others.

If the frame size for both the loaded file and export is the same (or when the frame sizes match during an “all” operation) the wavetable is created with a loop point at the frame size, but not interpolated.

The resulting files are exported as .wav files with the selected sample rate and bit depth.

**Load:** Load a single wavetable file or a folder. If a folder is selected it will scan all the subfolders for .wav , .aif , and .aiff files to be processed for exporting.

**Original Frame Size:** Set the frame size of the original wavetable file(s). The correct original frame size must be known and set in order for the conversion to work correctly.

**Export:** Initiate the interpolation process and create the new wavetable file(s).

**Export Frame Size:** Select the frame size for exporting. Selecting All will export files for all available frame sizes.

**Export Sample Rate:** Select the sample rate for exporting.

**Export Bit Rate:** Select the bit depth for exporting.

**About:** Opens the application about screen.

**Cancel:** Cancels the interpolation and file creation process.

**Remove:** Removes the loaded file or folder.

Tooltips are available for all parameters. When a file or folder is loaded, hovering over the file or folder name will display the full path.

## Changelog

### 1.1.0

**ADDED** Mac build are now notarized by Apple

**ADDED** Mac Intel support

**ADDED** Linux Intel support

**ADDED** Linux ARM support

### 1.0.2

**ADDED** Initial release