

How To Use the new PPG wavetable loading ability with OS Version 1.7 and later and how to load the Prophet VS files

1. Download the Zip file from our website, version 1.7:

https://www.groovesynthesis.com/downloads/3WAVE/firmware/w3_1_7.zip

The zip file contains

- a. the 1.7 OS (ldr file extension)
- b. two wav files
- c. two .wt wavetable files

The new wavetables will not be loaded automatically during the OS installation. It is a separate step to load the wavetables into the machine – that is what this new feature is all about.

2. You will load the OS just like any other OS. Version 1.7 or later is required to load the VS waveforms into the 3rd Wave.

TO LOAD A NEW OS:

1. Download the new OS from the Support page of the Groove Synthesis website. The file type is "ldr" for the OS. If included in zip file, extract files from zip archive to find ldr file.
2. Connect the 3rd Wave to your computer using the USB connector on the back of the synth.
3. Once connected, the 3rd Wave will show up on your computer desktop as an external drive.
4. Copy the "ldr" file into the firmware folder on the 3rd Wave.
5. Once the file has finished copying, press the global button on the 3rd Wave, then use Soft Knob 1 to locate the "Firmware Update" command.
6. Use Soft Knob 2 to select go.
7. Press Soft Button 1 (refresh). The screen displays the name of the OS file that you copied to the firmware folder.
8. Eject the 3rd Wave drive from your computer desktop.
9. Disconnect the USB cable from the back of the 3rd Wave.
10. Press Soft Button 4 (ok). The display will alert you when the OS has finished updating.
11. Once the display indicates that it is finished, turn off the synthesizer briefly then turn it back on again. The updated OS version appears in the upper right corner of the display.

3. You now have the ability to load wavetables into the Pxx positions.

The 3rd Wave comes with 34 classic P-style wavetables. P00 to P31 are wavetables from the PPG, and we have included two more in the positions P32 and P33. This feature allows you to add new wavetables in this format

If you select any oscillator and turn the Wavetable knob, you will be selecting either a:

- a. PPG wavetables – Pxx where xx is the number. These are in the 128 sample length 8 bit wavetable format from the original with all the strange processing quirks
- b. User wavetables – Uxx where xx is the number. These are 96Khz 24 bit fully anti-aliased modern

wavetables. This is the location where anything that you make with the Wave Maker, or anything that you import goes, (including Serum Wavetables).

c. Analog waveforms – Axx where xx is the number. These are the spline interpolated analog wave forms.

Again, this new feature allows you to add wavetables to the Pxx positions. We have a total of 48 positions. The existing P00 to P33 locations plus the empty P34 to P47 locations. If you have loaded a PPG format wavetable, you can save it to the first unused slot (P34) or overwrite any of the existing tables in slots P00-P33.

4. We have provided two examples of this type of wavetable, and they are the 128 total waveforms from the Prophet VS since it used the same length per waveform and almost an identical processing chain to create the sound from the oscillators. Each wavetable consists of 64 waveforms.

You will find two wav files and two .wt wavetable files in the zip file with the OS.

You can load the wavetables directly with wavetable files, or import the wav file and generate a wavetable in the "Make Waves" section.

Wavetable file method:

1. Connect your 3rd Wave to your computer via the USB connector
2. Copy the first of the .wt files to the WAVES directory in the 3rd Wave drive that is mounted on your computer. "P34_VS00-63.WT"
3. Go to the Global settings and select Import Wavetable
4. You will see the name of the wavetable and the encoder knob at the upper right will allow you to select a location. Turn this until you are at P34 and then hit the OK button in the bottom right (see pic below). This will save the wavetable to slot P34. After this procedure you will have the first 64 Prophet VS waveforms saved as a wavetable and selectable in position P34 for any of the 3 oscillators.
5. Delete the "P34_VS00-63.WT" file from the WAVES folder and Repeat steps 2 to 4 with the "P35_VS64-127.WT" file **and save it to position P35.**



Wav file method using the Make Waves button on the 3rd Wave:

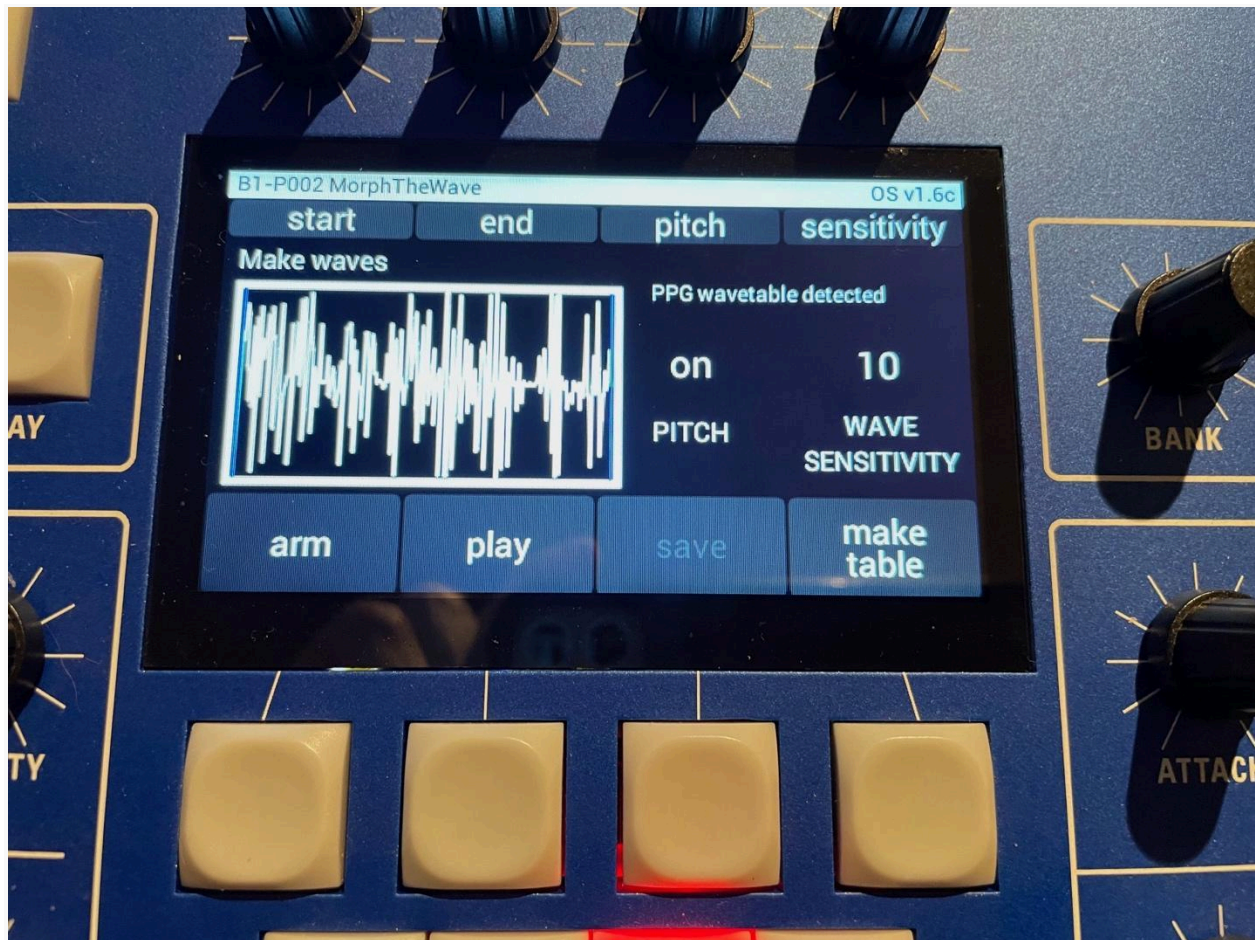
You can also generate a P-style wavetable with our wave maker using a wav file as input.

This method is the main point of this feature. PPG waveforms were 128 samples in length. (They were stored under the hood as 64 samples with the second half of the waveform inverted to get to 128, but what you played was 128 samples in length).

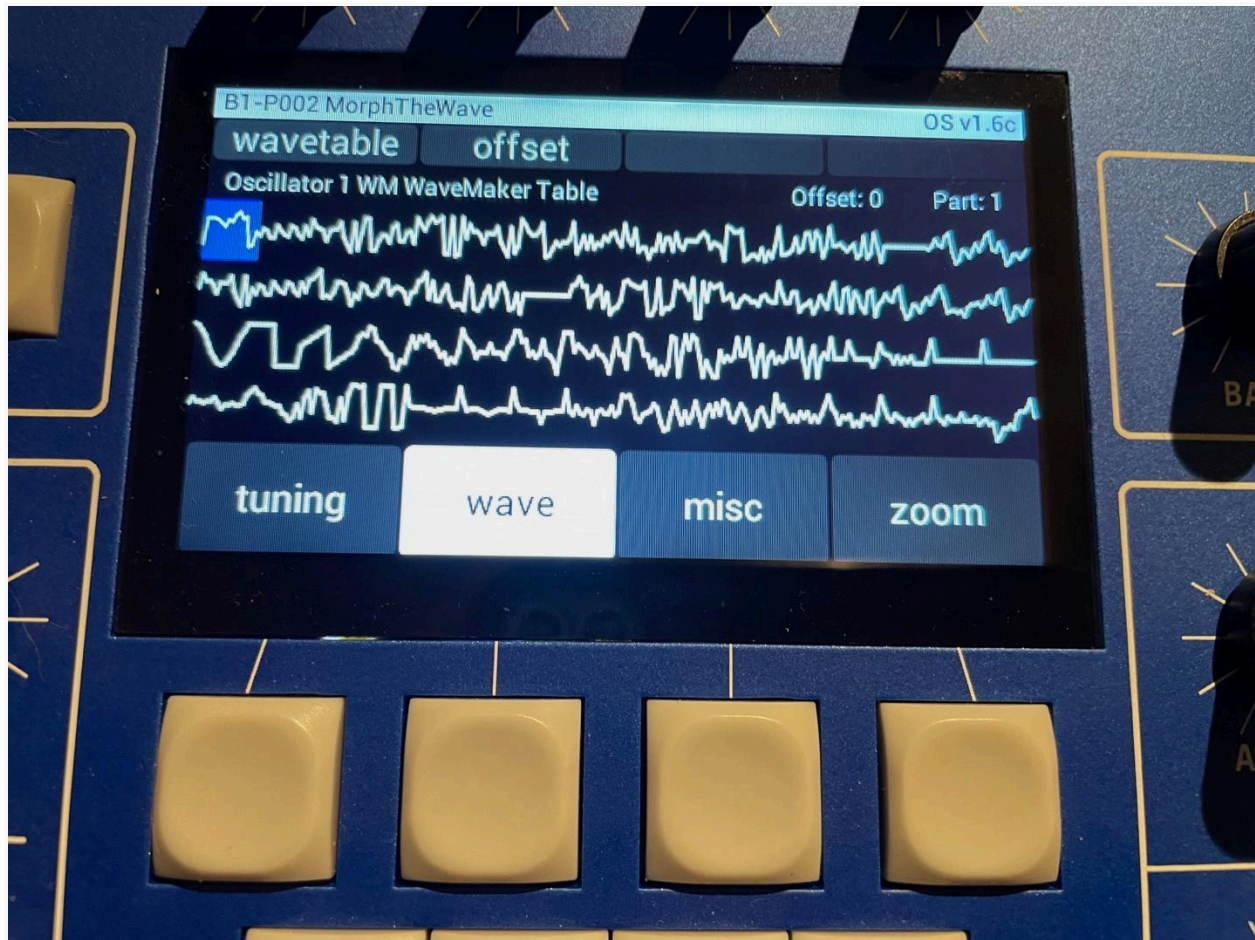
Since a wavetable in the 3rd Wave is always 64 waveforms in length, you get 128 samples times 64 waveforms = 8192 samples. This new feature allows you to import any wav file that you would like that has a length of 8192 total samples and it will recognize this wav file as containing a PPG format wavetable. You could make the wave envelope play through this as a one shot sample, but the point here is to have 64 single cycle waveforms.

1. Connect your 3rd Wave to your computer via the USB connector

2. Put the first wav file, "ProphetVS-0-63.wav", into the AUDIO folder.
3. In the Global section select "Read Wave Maker WAV File", which is near the end of the list. Select Go and you will see the first part of the name of the wav file. Hit OK
4. You are now in the Make Waves screen on the 3rd Wave. You will see the wav file has been recognized as a PPG type due to its length of 8192 samples. All the controls that you would use when making your own wavetable from audio can be ignored since it already recognized the wav file as a PPG type. Just hit the "make table" button.



5. The PPG wav file is now in the WM wavetable position of your 3rd Wave, which is the very last position in your wavetable selector. (Past the Pxx, Uxx, and Axx wavetable/waveform types). If you select WM on one or all three of the oscillators you will now hear the wavetable, and can look at it by hitting the "wave" button. See the screenshot below



6. To Save from this temporary WM Wavetable location press the Make Waves button and then hit the “save” button at the bottom of this section.

7. The screen will allow you to name the wavetable and also will allow you to select the Pxx position that you want to save it to. See the screenshot below. Hitting OK will save with the name you have written in and to the position that you have selected. If this is the first of these Prophet VS wav files, then place it in P34.



AS WITH THE WAVETABLE IMPORT METHOD, YOU NOW HAVE the first 64 Prophet VS waveforms saved as a Wavetable and selectable in position P34 from any oscillator.

8. Repeat 2 through 7 for the other wav file, "ProphetVS-64-127.wav", and save it to position P35.