

ViViGen software now free with SuperPump!

When to use ViViGen?

ViViGen is our standalone waveform generation tool intended for basic flow loops and conditions. It allows for the creation of linear and sinusoidal waveforms with the beat rate, duty cycle, and label as the only possible adjustments. Up to five waveforms may be uploaded onto the SuperPump prior to operation, however updating those waveforms will require reconnection to a PC.

This software is ideal for customers with well defined, basic flow requirements where the characteristic shape of the flow is not important or for customers who must operate the pump without a connected waveform source such as a PC or function generator.

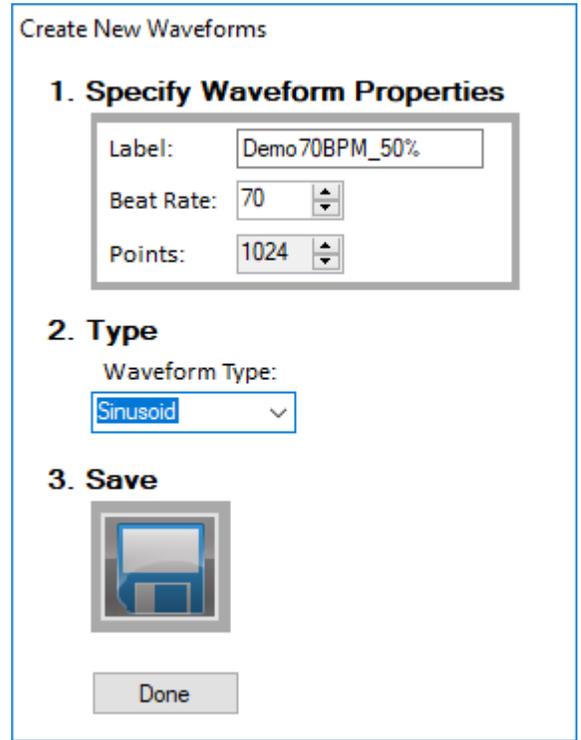


Figure 1 - ViViGen waveform creation

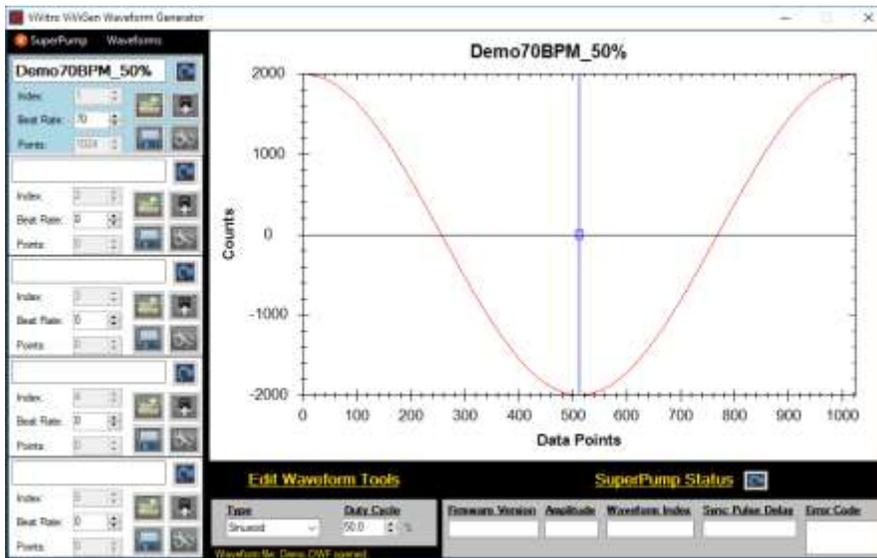


Figure 2 - ViViGen waveform review

When to use ViViTest?

While designed specifically for use with the Pulse Duplicator, the more advanced waveform tools of ViViTest should be considered when setting up complex flow loops and R&D systems which will vary their output frequently. In addition to all of the functionality of ViViGen, ViViTest allows you to adjust waveforms graphically and generate unique waveforms quickly. These complex waveforms can be stored in a library to access on demand. This gives a method of determining which waveforms will give the best outflows during testing, quickly modifying them to give ideal performance and then storing them for future use.

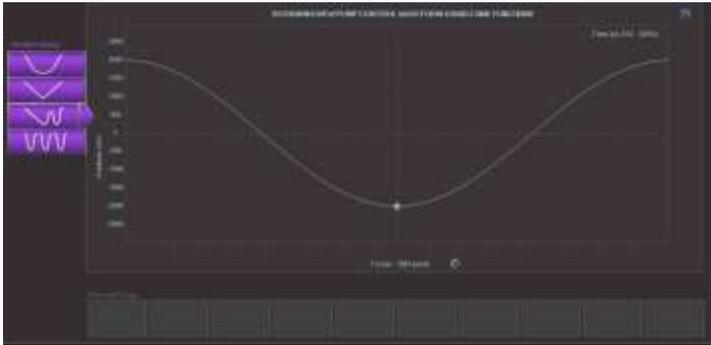


Figure 3 - Starting shape

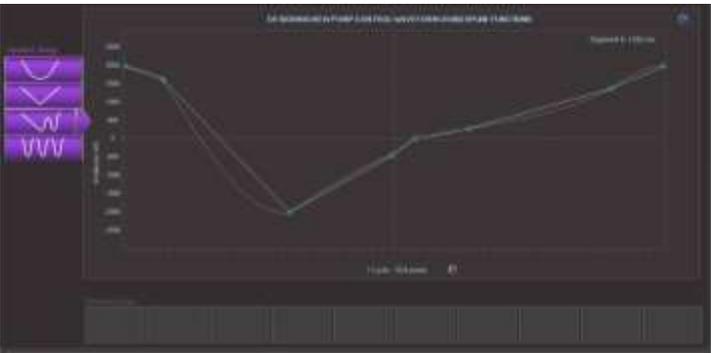


Figure 4 - Adding modifications

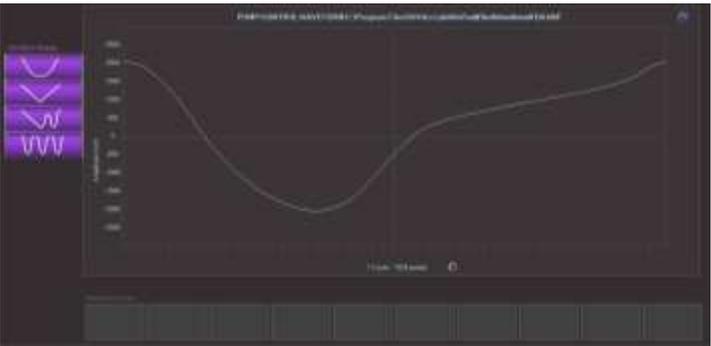


Figure 5 - Final waveform

Having a stored library also allows ViViTest to process waveform trains. This allows you to collect data on 10 different waveforms consecutively showing changes in performance onscreen in real-time or captured for later review.



Figure 6 - 10 Waveform train

ViViTest is well suited for R&D engineers, universities, complex flow setups and cardiovascular investigations where precision and variable outputs are required. Customers with advanced flow requirements and who intend to test multiple different devices should also consider ViViTest.

Need more advanced waveforms?

With both ViViGen and ViViTest, advanced users may create even more advanced and specific waveforms in excel or Matlab and import them for use. Feel free to send us your waveform in advance to ensure it is compatible with our equipment. We have a couple tools to help you get started developing your own custom waveforms.

Please contact our support team (support@vivotrolabs.com) with any further questions on customized waveforms or software functionality.