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## Variable Frequency Wave Generator #VFWAVGEN

### Warning:

- **Not a toy; use only in a laboratory or educational setting.**
- **California Proposition 65**  
**Warning: This product can expose you to chemicals including acrylonitrile, nickel and lead, which are known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**



### Introduction

Waves are an essential subject of study in the field of physics. In early studies of wave motion, scientists such as Ernst Chladni and Franz Melde used violin bows or tuning forks, respectively, to generate steady, observable waves that they could use for their experiments. Today, we have the technological ability to generate waves with consistent frequencies much more easily.

Your Variable Frequency Wave Generator is able to transform the electrical current coming from your wall outlet into an oscillating frequency of your choice (between 15 and 320 Hz). This frequency can then be fed into a vibration generating device to produce consistent waves of a set frequency.

### Additional Supplies (Not included):

- Banana-plug connector cords (x2)
- Vibration generator (with banana-plug inputs)



## How to Use

Below are instructions for operating your Variable Frequency Wave Generator:

1. Plug your power cord into your generator, and then plug the other end of your cord into a wall outlet.
2. Plug one end of each of your banana-plug connector cords into the red and black outlets on your generator. Connect the other, loose ends into your vibration generator device.
3. Set your frequency dial to 15 Hz before powering on your device.
4. Power on your device using the red rocker-switch in the upper left corner of your generator.
5. Adjust your device's frequency dial to the proper frequency for you experiment.

