

# JOY-IT

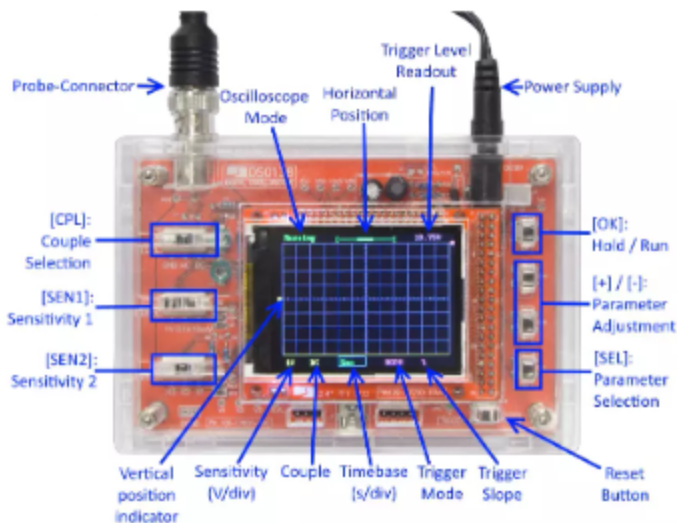


DSO138 Oscilloscope

## 2. Usage

### 2.1 General Informations

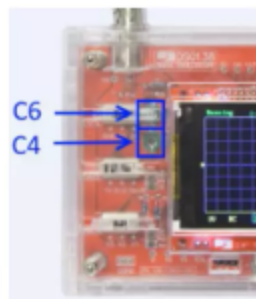
The DSO-138 oscilloscope is immediately ready for use and does not require any further configuration. The exact wiring diagram can be found here:



Function	Description
CPL	Change between AC, DC and GND
SEN1	First Sensitivity-Setting
SEN2	Second Sensitivity-Setting
OK	Stop current display
+ / -	Setting the parameters selected by [SEL]
SEL	Choose parameter

## 2.2 Calibration

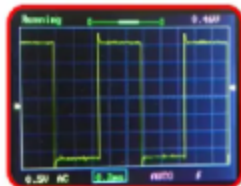
Since there can always be small tolerances, you can calibrate your instrument.  
If this is necessary, please follow the steps below:



1. connect the red clip to the test signal terminal
2. Set[SEN1] to 0.1V and[SEN2] to X5.  
Set[CPL] to AC or DC.
4. Set Timebase to 0.2ms. A waveform (see below) should now be visible.
5. Use a screwdriver to adjust C4 until a good signal is obtained.  
Set[SEN1] to 1V and[SEN2] to X1 and move C6 until the rectangular waveform is reached.



Too less



Too much



Correct

## 2.3 Trigger Mode

Triggers are a special event that is triggered when a voltage value beats above a previously defined level. Oscilloscopes use these triggers as reference points to display a stable waveform.

Auto-Mode: The display is automatically updated regardless of the triggers.

Normal Mode: The display is only updated by a trigger.

Single mode: The display only updates itself after a trigger and then immediately switches to HOLD



### 3. Safety Instructions

Please note the following safety instructions:

The product is intended for use in dry rooms only and must not get wet or moist.

It is expressly not a toy, small parts could be swallowed and cause choking.

When using third-party accessories, we cannot guarantee that they will function properly, we recommend only using original accessories.

Incorrect / too high voltage can damage the unit and may also cause fire or electric shock injuries.

