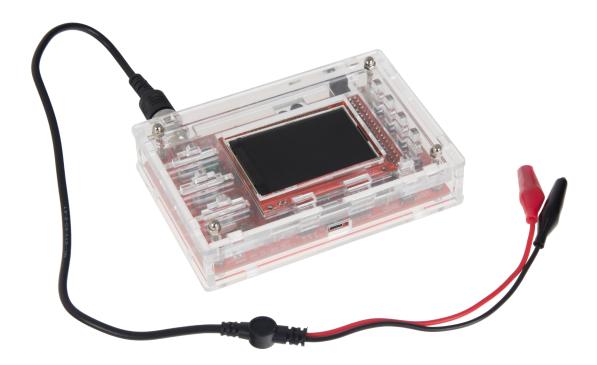




DSO-138 Oscilloscope





DSO-138 Oscilloscope

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Dear customer, thank you for purchasing our product. Please find our instructions below.

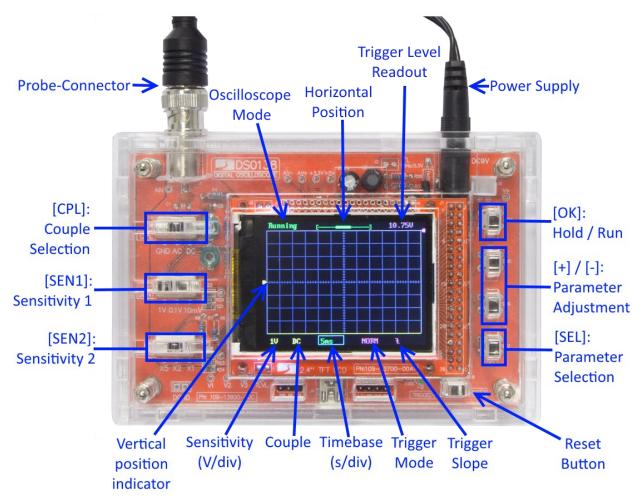
1. Technical specification

The DSO-138 offers the fundamental functions of an oscilloscope and shall impress with its simplicity.

Max. sample raze	1 MSa/s
Analog bandwith	0 – 200 KHz
Sensitivity range	10mV / div – 5V / div
Max. input voltage	50 Vpk
Input impedance	1M Ohm / 20 pF
Resolution	12 Bit
Record length	1024
Timebase Range	500s/ Div – 10 us / Div
Trigger Modes	Auto, Normal, Single
Trigger position range	50%
Power supply	9V DC (8 – 12V)
Current consumption	~ 120mA
Dimension	117 x 76 x 15 mm
Weight	70g

2. Usage

The DSO-138 oscilloscope is ready to use and does't need any further configurations. Please note the connection-diagram below:



[CPL]: Switch between zwischen AC, DC und GND [SEN1]: first sensitivity setting [Sen2]: second sensitivity setting

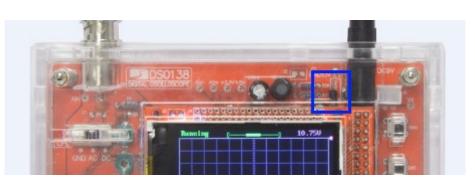
[OK]: Stop current view

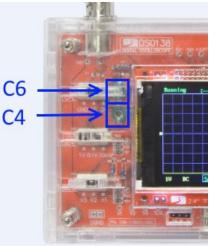
[+] / [-]: Configure the [SEL] parameter

[SEL]: choose parameter

Calibration:

Because there are always some small tolerances, you are able to calibrate your device. If this is necessary, please follow the following steps:





- 1. Connect the red clip to the test-signal-terminal.
- 2. Set [SEN1] to 0.1V and [SEN2] to X5.
- 3. Set [CPL] to AC ot DC.
- 4. Set timebase to 0.2ms. You should now see a wave-diagram (see below).
- 5. Set C4 with a screwdriver until the signal is good.
- 6. Set [SEN1] to 1V and [SEN2] to X1. Set C6 until you see a rectangular wave-diagram.



Triggermodes:

Triggers are special events which are toggled when a voltage level is reached. Oscilloscopes are using triggers as refference-points to display a stable wave-form.

Auto-Mode: Display is refreshed automatically. The triggers are not influecing this.

Normal Mode: Display is refreshed by triggers.

Single Mode: Display is refreshed by a trigger and switches to HOLD.

4. Security informations

Please note our security informations: This product is for usage in dry rooms only. It must not get wet or moist.

This is no toy and small parts can be swallowed and lead to death.

We can not ensure a perfect function by using third-party supplies.

The device can be damaged by higher voltage and could cause fire or lead to damage by an electric shock.