

Getting started with the 'No Hassle' Audio Visualizer

Many thanks for purchasing this fun Audio Visualizer. The Visualizer is designed to be quickly deployed as a way of providing a fun display of any audio signal it detects!

We appreciate your business and want to ensure that your experience with our products is a pleasurable one. We understand that you want the product to work without fault and that is our wish also. The following hints are designed to help you get up and operational as quickly as possible.

***** SAFETY NOTE *****

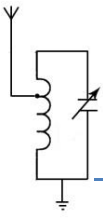
This visualizer uses voltages as high as 300 Volts DC, this is a high voltage and caution needs to be applied when using the board in an unprotected condition (bare board). We advise locating the unit in the final product enclosure or an enclosure to reduce the risk of problems.



Product details

Please refer to Photo 1 while reading these notes

1. The unit is best powered from a 12 – 16 volt, 2 Amp DC 'wall wart' style power block. Input voltages can be as low as 9V, and as high as 18 Volts DC
2. The power input jack is a standard 5.5 x 2.1 mm power jack, center positive.
3. The unit as supplied has the plate voltage trim pot set to 250 volts, it should not be necessary to adjust this trim pot, but if needed it can be, follow these instructions
 - a. Set the board on a clean dry surface, remove the tube and set aside.
 - b. Using the photo as a guide, and using a voltmeter capable of measuring up to at least 500 volts DC, Set the voltmeter to a range above 250 V DC place the common probe in the pin 3 position on the tube socket, and the positive lead in the pin 6 position, count round from the 1 or 9 indicated in Photo 1, adjust the plate pot. for desired voltage reading with a small screwdriver.
 - c. When satisfied detach the probes and power supply. Replace the tube
4. Audio input is via the built in microphone insert. Placing the unit near a source of sound/music will cause the display to start registering. Input sensitivity is user adjustable using the potentiometer located near the microphone, adjust the sensitivity using the potentiometer by carefully rotating the control anti-clockwise. As supplied the unit sensitivity is off, or set fully clockwise. Only small adjustments of this control will be needed to match the incoming audio.

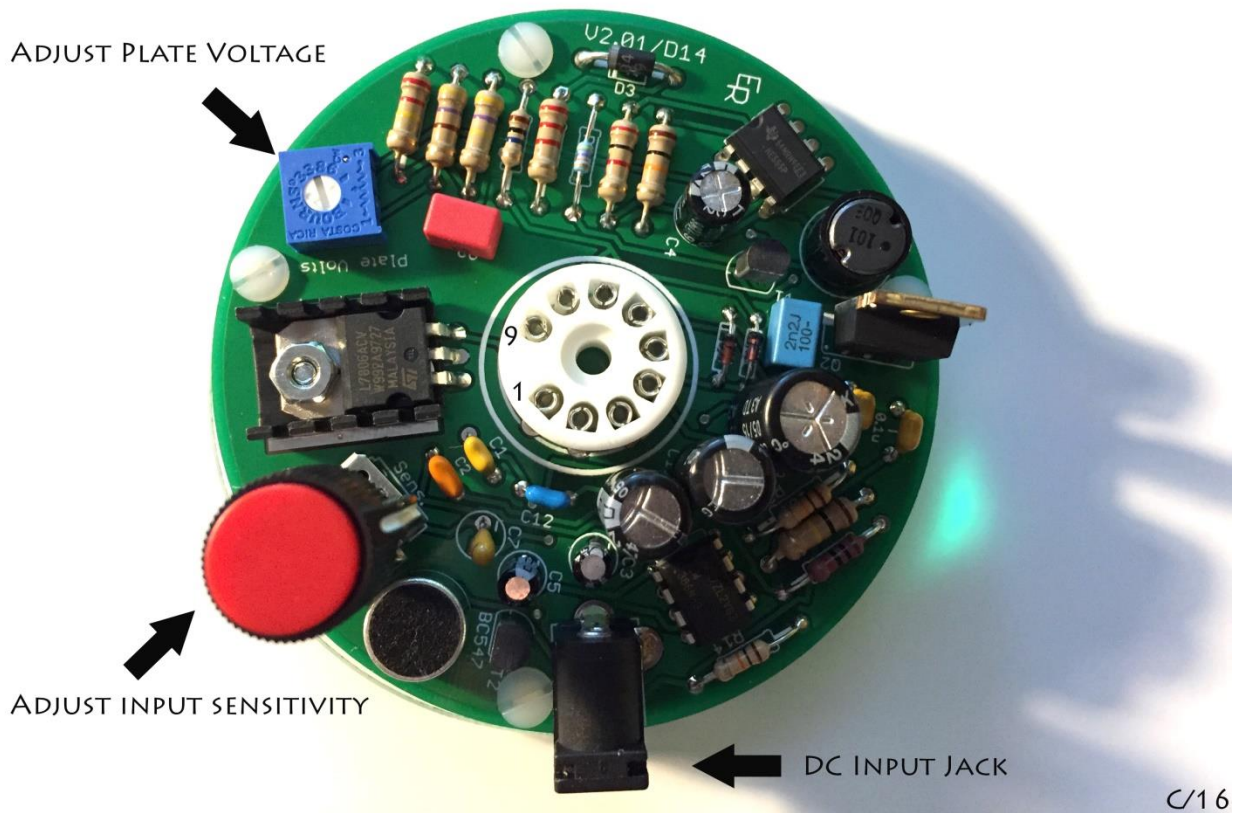


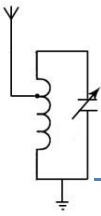
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5. In use the PCB will get warm, tube circuits and tubes by their nature run warm. They will feel warm to the touch.
6. Be careful if working on the board outside an enclosure, as while we have worked hard to make the board as safe as possible we are talking high voltages! Observe normal safe working habits associated with high voltages. Avoid touching the underside of the PCB & components.

Photo 1 - Layout diagram

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Troubleshooting

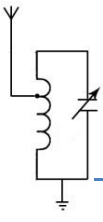
In the unlikely event that the unit does not function 'out of the box', please refer to these simple help steps. If the unit is still not working contact us at this email: resalese@gmail.com

1. The tube heaters are glowing, but the display is blank – the audio sensitivity control may be fully clockwise, adjust to the mid-point detent and see if that solves the issue.
2. Unit not working, heaters in tube not glowing – check the power supply being used, is it working, is the output jack of the power supply center positive, try another power block.
3. Unit not working, heaters in tube not glowing – if you have supplied your own tube, is it an EM84 or equivalent, and is it functional, try a tube substitution if possible.
4. Fluorescent display moves a little – adjust sensitivity control, increase music volume, move unit closer to the audio source.
5. Fluorescent display 'arms' are touching – adjust sensitivity control, it is too far advanced.
6. If all else fails we are here to help, contact us at – resalese@gmail.com

LIABILITY DISCLAIMER

A person who constructs or works on electronic equipment may be exposed to hazards, including physical injury, the risk of electric shock or electrocution.. These hazards can result in health problems, injury, or death. Only qualified persons who understand and are willing to bear these risks themselves should attempt the construction of electronic equipment. By purchasing this item, the buyer acknowledges these risks. There is a risk of electric shock, electrocution, burns, or fires that is inherent in the construction and use of electronic equipment. By purchasing this item, the buyer acknowledges these risks.

IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE including, but not limited to, property damage, personal injury, death or legal expenses. Buyer's recovery from Seller for any claim shall not exceed the purchase price paid by Buyer for the goods, irrespective of the nature of the claim, whether in warrant, contract or otherwise. By purchasing this item, BUYER AGREES TO INDEMNIFY, DEFEND AND HOLD SELLER HARMLESS FROM ANY CLAIMS BROUGHT BY ANY PARTY REGARDING ITEMS SUPPLIED BY SELLER AND INCORPORATED INTO THE BUYER'S PRODUCT.



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Space for your Notes!