

HotBox Customizer V1 User Guide

By Pair. Designs

Introduction:

The HotBox line of voltmeters from Pair. Designs are the first high speed, high accuracy, user customizable voltmeters. HotBox users may use the HotBox Customizer software to connect with their voltmeter and customize features like:

- Loading screen image
- Banner image
- High voltage alarm
- Low voltage alarm
- Voltage offset

Customizable Features:

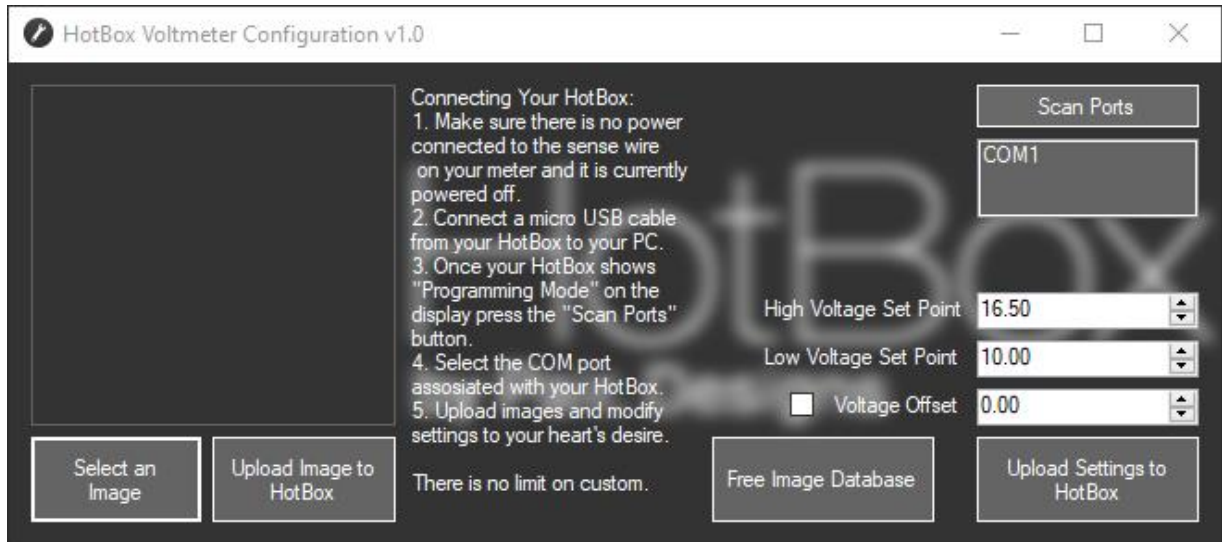
There are five different aspects of the HotBox V2 meter that can be customized by the user. Those features are listed in the above section. In this section the effect of each feature is explained.

- **Loading screen image** – the image displayed when the meter is powered on.
- **Banner image** – the image displayed above the voltage reading.
- **High voltage alarm** – a set point that when the voltage goes above the screen of the meter is set to flash.
- **Low voltage alarm** – a set point that when the voltage goes below the screen of the meter is set to flash.
- **Voltage offset** – used for meter calibration. This feature is explained further below.

Quick Start:

1. Install the HotBox Customizer software from pairdesigns.net where the software is freely available for download.
2. Plug your HotBox V2 voltmeter into your computer with a micro USB cable. If the meter is currently installed in your vehicle make sure to disconnect the SENSOR wire as this is how the meter knows it is being programmed.
3. Once plugged in the meter should start up with "PROGRAMMING MODE" and current parameters displayed on screen.

4. After installation there will be a shortcut to the HotBox Customizer on your desktop. Open the HotBox Customizer.
5. Once opened you should see this screen:



6. From this screen you can connect to your meter, view the free image database, select an image, change parameters and upload to your HotBox V2.
7. To connect to your voltmeter press the "Scan Ports" button then select the COM port your meter is on. In general, it will be the only COM port to show up.
8. Once the COM port is selected and turns blue you may begin uploading to your HotBox V2.
9. After you have successfully uploaded your customized image and/or parameters you may disconnect your HotBox V2 from the computer.
10. At this point you can install the meter in your vehicle again if it was removed.

HotBox V2 Calibration:

All meters are calibrated before they are shipped but if the sensor wire needs to be extended it could impact the reading displayed. If you believe the meter is no longer accurate the HotBox Customizer has a Voltage Offset option that will allow you to tweak the calibration. The recommended calibration process is listed below.

1. Power on your HotBox V2 in your vehicle.
2. Compare the reading on the HotBox V2 with a known good voltmeter.
3. Note the readings from the two meters.
4. To calculate the voltage offset, subtract the HotBox V2 reading from the known good meters reading. This value will be your offset.
5. Using the "Quick Start" steps prepare to program your HotBox V2.
6. Now check the box next to the voltage offset. If this box is not checked the voltage offset WILL NOT BE WRITTEN to your HotBox V2.
7. After checking the box enter the value you calculated in the given field.
8. If you changed the high and low voltage alarms make sure to set those again in the HotBox Customizer.
9. Now press the "Upload Setting to HotBox" button.
10. Once the upload is completed you can disconnect your meter from the computer and continue normal use.