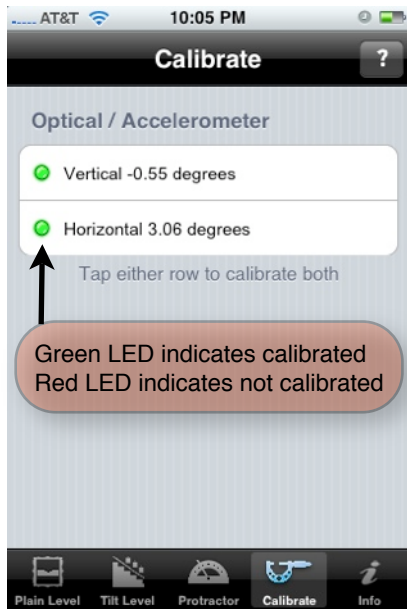


Calibration



Calibration is required to adjust the vertical and horizontal accuracy of the iPhone's accelerometer. Each iPhone has a slight variation due to the manufacturing process.



Use a known level object or an actual level to set the calibration. A laser level line projected against a wall would also work.

During calibration keep the iPhone perpendicular to the level being used. Tilting or twisting the iPhone/Camera will reduce the accuracy of the calibration. Rotating less than 45° during calibration has no negative effect. The iPhone need not be kept level to calibrate successfully.



Twist



Rotate



Tilt

Calibration Screen



The calibration dial is used to align the black and white calibration line with the level object viewed through the camera.

The calibration line.

The lock determines whether or not the application is considered calibrated. Touch the lock to begin or end calibration.

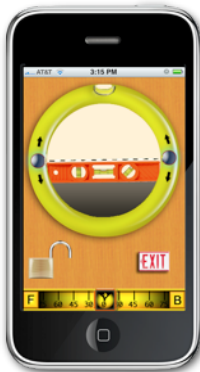
The Exit button returns to the previous screen. This also acts as a guide to the iPhone's orientation. If **EXIT** is upside down, rotate the iPhone 180°.

The tilt meter indicates tilting Forward and Back.

Note: In this image, the iPhone was held slightly rotated to the left. As long as you ensure the black and white calibration line is aligned with the level in the background, calibration will be successful.

Calibrating

There are two calibrations to be completed prior to use; vertical and horizontal. The two steps require the iPhone be held vertically, adjusted then locked, rotate 90° to the right and repeat.



VERTICAL CALIBRATION:

Ensure lock is open to enter calibration mode.

To ensure accuracy, the iPhone should be held perpendicular to the level. Standing a few steps away from the level makes this process easier.

Rotate the calibration dial to adjust the black and white line until aligned with the level.

Once you're satisfied with the alignment, touch the lock to save.



HORIZONTAL CALIBRATION:

Repeat the same process for the horizontal. The iPhone must be rotated to the right for this step.

DISCLAIMER

Driven Tree, LLC makes **no guarantee as to the accuracy** of this application. In the spirit of the “calibrated eye”, this application is intended as an approximation only.

Every effort has been made to ensure the accuracy of this application.

This application is using the iPhone's accelerometer and depends on your ability to calibrate it accurately.

Calibrated iBall should be used as a general guide only.

This application will not function properly in accelerated frames of reference such as amusement park rides, moving automobiles, or rocket ships. We have not tested this application in low gravity environments such as the moon, nor high density environments such as black holes or the Mariana Trench.