

Calibration Instructions

Structure Sensor

First, make sure your iPad's iOS and QOL 3D Scan App are up to date. Make sure your sensor is fully charged. Make sure you have the 'Structure' and 'Structure Sensor Calibrator' apps installed on your iPad.

Firmware Update

- This update ensures the operating system of the Structure Sensor camera is up to date. Open the Structure app, press on the 'i' button in the top right hand corner and ensure the Firmware Version is up to date.
- This procedure may take 3 to 5 minutes.

Alignment Calibration

This calibration will make sure that both images from both cameras, the one from the iPad and the infrared one from the sensor are perfectly aligned, one over the other.

- Print the Indoor Calibration target (attached) and stick it on a wall.
- Start the Calibrator App.
- Click on the 'Standard Calibration' button. Click on 'Begin Calibration'. Enable Indoor Mode.
- Point the scanner to the target on the wall until you see two images of the target on your screen. Disregard the instruction concerning the surroundings and click on 'Got it'.
- The scanner will take a couple of pictures with blue dots all over them. You are done!

Stereo Refinement

When you start a scan and you don't have a solid white pattern over the foot you are aiming to scan, when you have a broken pattern with holes or only a few white dots or if the scan box is unstable, you need to do a stereo refinement. Stereo image refinement is an automated process.

- Open the Calibrator app and press the '?' icon in the top left hand corner.
- Press the blue 'Perform Refinement' button.
- Find a flat, empty wall and away from sunlight. Face your sensor perpendicular to the wall and stand back approximately 1.2 metres.
- Start the refinement. This may take 10-20 seconds.
- Save refinement.

For further instructions, please see the video at www.youtube.com/watch?v=BNiFMepZjp0

Gravity Calibration

When you see an unstable scanning box, that has a tendency to flip, or if the box seems unaligned with the horizon, you need to do a gravity calibration. This calibration is done within the QOL 3D Scan app and it is not related to the sensor but is within the iPad.

- Press the 3 white horizontal lines in the top right hand corner of the QOL 3D Scan app
- Press on 'settings' on the left hand side. A settings pop-up box will appear
- Press on 'Calibrate'.
- Find a level surface (e.g. desk) and place the iPad on it so the long side without the sensor is on the desk and the screen is perpendicular to the desk. The sensor should be at the top, facing away from you.
- Press the 'Calibrate' button while holding still.

For further instructions, please see the video at www.youtube.com/watch?v=6bgMzdaw37M

Indoor Calibration target (print this page)

Instructions:

- Print this target. Color or black and white are both acceptable.
- Switch your calibration mode to "Indoor Mode" (Having Trouble > Enable Indoor Mode > OK)
- Point your sensor at the target. Move slowly, stopping to allow the sensor to gather more blue dots.



Jackson Pollock, One: Number 31, 1950