

Quick Start Guide: QArm



STEP 1 Check Components and Details

Make sure your QArm experiment includes the following components:



STEP 2 Install and Test QUARC

Refer to the QUARC Quick Installation Guide document using the link provided in the QUARC delivery email that you received. Note that MATLAB® and Simulink® (with MATLAB Coder™ and Simulink Coder™) must be installed prior to installing QUARC.

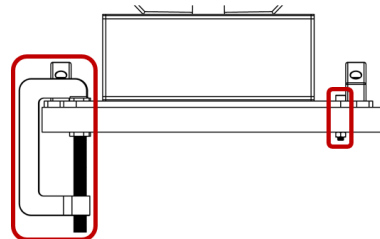
STEP 3 Set Up the Hardware

The steps below outline the instructions to setup the QArm with a QFLEX 2 USB panel.

A

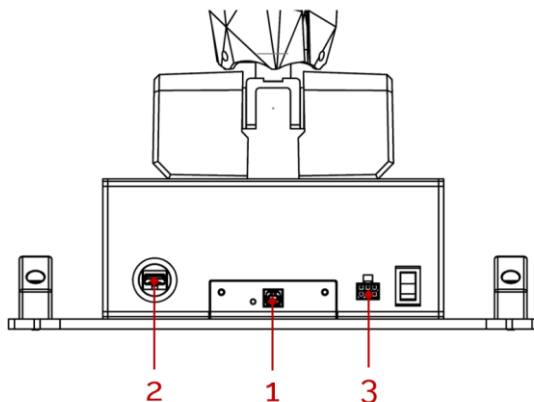
Place the QArm on a flat surface and ensure that a cylindrical space of 1m radius and height is around it so that all the joints can rotate freely

B

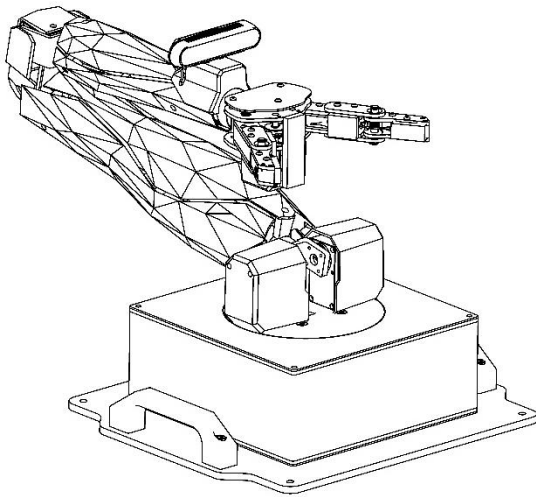


Firmly secure the QArm to the work surface using bolts or clamps via the base plate.

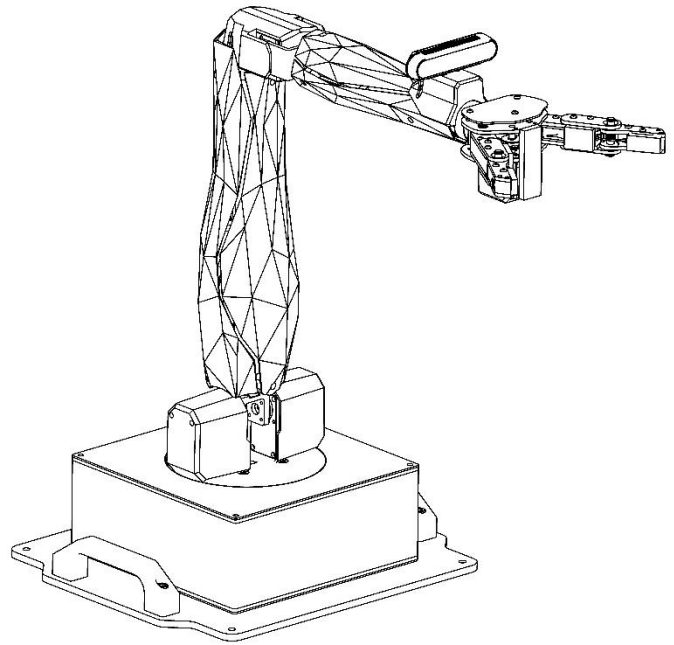
C



D



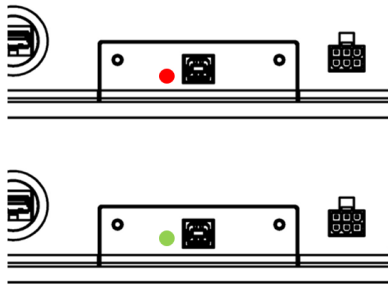
Rest Configuration



Home Configuration

1. Ensure that the power switch is OFF.
2. Move the QArm from the Rest Configuration to the Home Configuration shown.
3. While supporting the QArm, turn ON the power switch.
4. The manipulator will hold its position and can be let go at this point.

E



The USB LED next to the USB B connector in the base being green indicates that the USB connection has been established. If this LED is lit red, a USB connection is not established. Repeat step D in the Home Configuration again.

STEP 4 Testing the QArm

Follow the procedure below to test your QArm.

A

Download the Simulink courseware and the user manuals from <https://www.quanser.com/products/qarm/>. Launch MATLAB and navigate to the Quick Start Guide folder inside the Technical Resources.

