Quick Start Guide: QLabs Virtual QBot 3

STEP 1   Software Prerequisites

QLabs Virtual QBot 3 is compatible with **Microsoft Windows 10 (64-bit)** and **MATLAB and Simulink R2021a,** or later. Visit the Virtual QBot 3 product page at www.quanser.com for the latest software support.

STEP 2   Register on Quanser Academic Portal

Visit the Quanser Academic Portal at https://portal.quanser.com/Accounts/Register. Follow the on-screen instructions to register and activate your account.

STEP 3   Download and Install QLabs

Download and install the latest version of the **Quanser Interactive Labs** (QLabs) for Windows application from the Quanser Academic Portal page at https://portal.quanser.com/Downloads.

STEP 4   Testing the Virtual QBot 3

1. Open the **Quanser Interactive Labs** application and login using your account.
2. From the product list select **QBot 3**, then select **QBot 3 Workspace**.
3. The Virtual Aero 2 should look as shown below. Note that you can update the spawn location of the QBot from the *Options* menu.
4. You can also change the environment camera and QBot 3 RealSense camera location from the *Current Camera* drop menu and configurator shown below
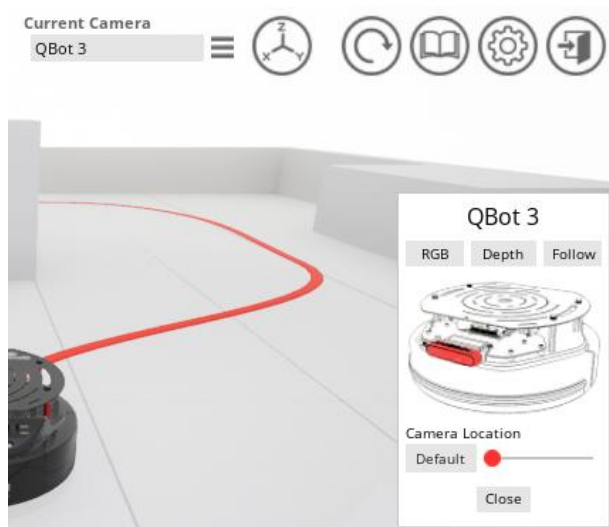
5. Open the **virtual_qbot3_quick_start.slx** Simulink model.
6. Run the Simulink model.
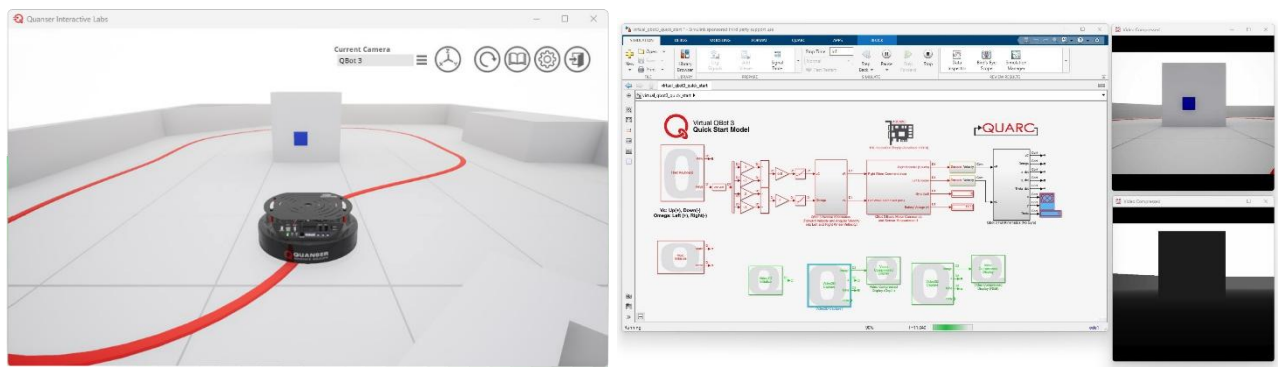
7. Two windows will appear in Simulink showing the RGB and depth video feed from the camera. If the windows do not appear, you can manually open them by clicking on the two *Video Compressed Display (RGB)* and *Video Compressed Display (Depth)* blocks in the Simulink model. Drive the robot around using the 4 arrow keys on your keyboard.

8. Stop the model.

STEP 5 Download Curriculum

To download the full student version of the QLabs Virtual Qbot 3 curriculum click on the *Open Content* icon in the app.

Still Need Help?   For further assistance visit the QLabs support page or contact us at digital@quanser.com