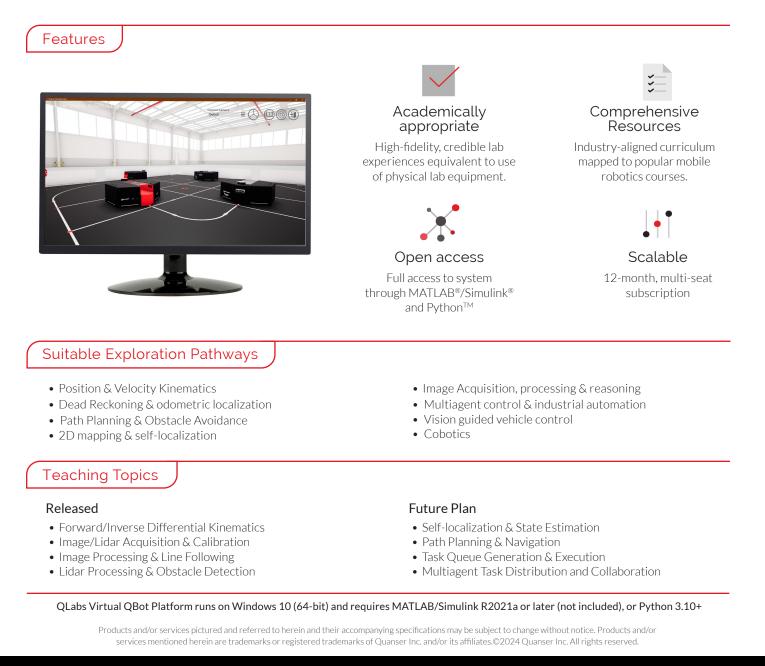


QLABS VIRTUAL QBOT PLATFORM

Virtual platform for distance and blended undergraduate mobile robotics courses

QLabs Virtual QBot Platform is a fully instrumented, dynamically accurate virtual twin of a QBot Platform. It behaves in the same way as physical hardware and can be measured and controlled using MATLAB[®]/Simulink[®] and Python[™]. QLabs Virtual QBot Platform can enrich your lectures and activities in traditional labs, or bring credible, authentic, industry-aligned, and academically oriented lab experiences into your distance and online mobile robotics course.

Same as the physical QBot Platform, the virtual system features a differential drive platform equipped with odometric, inertial, visual, and ranging sensors for robotic applications such as self-localization, path planning, state estimation, control, visual servoing, multiagent collaboration and more.



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