

ABB USA

# VR System Requirements

## Required Software



Microsoft Windows 10 Anniversary Edition or later, 64-bit edition, is required.

The Windows AppInstaller is a pre-requisite for the virtual OmniCore FlexPendant software, see <https://www.microsoft.com/en-us/p/app-installer/9nblggh4nns1>. The App Installer is a default built-in app in Windows 10 but may have been removed on some PCs.

Sideloading of apps must be enabled on Windows 10 to install the virtual OmniCore FlexPendant.

To enable sideloading follow these steps:

1. Open **Settings**.
2. Click **Update & Security > For developers**.
3. Under **Use developer features**, select **Sideload apps** or **Developer mode**.

## Recommended Hardware

Item	Requirement
CPU	2.0 GHz or faster processor, multiple cores recommended
Memory	8 GB minimum 16 GB or more if working with large CAD models
Disk	10+ GB free space, solid state drive (SSD)
Graphics Card <sup>1</sup>	High-performance, DirectX 11 compatible, gaming graphics card from any of the leading vendors. For the Advanced lightning mode Direct3D feature level 10_1 or higher is required.
Screen Resolution	1920 x 1080 pixels or higher is recommended
Mouse	Three-button mouse
3D Mouse	Any 3D mouse from 3DConnexion, see <a href="http://www.3dconnexion.com">http://www.3dconnexion.com</a> .

Item	Requirement
Virtual Reality Headset	Oculus Rift, HTC Vive or any Windows Mixed Reality Headset. Note that special PC hardware requirements apply when using RobotStudio with VR, see <a href="https://www.oculus.com/oculus-ready-pcs/">https://www.oculus.com/oculus-ready-pcs/</a> , <a href="https://www.vive.com/us/ready/">https://www.vive.com/us/ready/</a> , or, <a href="https://www.microsoft.com/enus/windows/windows-mixed-reality-devices">https://www.microsoft.com/enus/windows/windows-mixed-reality-devices</a> , respectively.

<sup>1</sup> RobotStudio will not benefit from the additional features of so-called 'Professional' or 'Workstation' graphics cards. The price level of these are at a much higher range than gaming graphics cards with comparable performance. High-end gaming PCs are very suitable for offline programming with RobotStudio. Such a PC will provide good performance for a limited budget.

#### Notes/Suggestions:

- Any VR ready PC can be used, although, better graphics cards lend to better/smooth results.
- The Nvidia Quadro RTX5000, or the Nvidia 1080 GTX graphic cards are good options.
- Links to the various VR Headset graphics card requirements are noted above.
- The Oculus Quest2 is great, it's inexpensive, inside-out tracking, and has wireless capabilities when used with a router. With the Quest2 an optional USBC cable for laptop connectivity in instances when the high speed router is not available may need to be purchased.
- RobotStudio communicates to SteamVR which can be downloaded free of charge.