Equipment and system requirements for Varwin platform

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Varwin platform requires:

* VR equipment set
* personal computer fitting the following system requirements.

# VR equipment

1. VR equipment set (options a-c at choice):
   1. **HTC Vive** 
      1. full kit: VR headset - 1 pcs, wireless controllers - 2 pcs, base stations - 2 pcs., accessories
      2. photo stands - might be useful for base stations placement, depending on room characteristics and desired arrangement of the base stations.
   2. **Oculus** 
      1. VR headset - 1 pcs, wireless controllers - 2 pcs, Oculus sensors - 2 pcs, accessories
   3. **Windows Mixed Reality (WMR)** *(any manufacturer)*
      1. VR headset - 1 pcs, wireless controllers - 2 pcs, accessories
      2. WMR kit doesn’t require any additional movement trackers

# PC system requirements

1. OS: Windows 10 and higher, x64
2. Processor: Intel Core i5 - i7**\*** or AMD Ryzen 5
3. Memory: 8 Gb and higher
4. Graphics card: GeForce GTX 1060 6 Gb video memory and higher**\*** (or similar in performance)
5. 10+ Gb hard drive free space
6. USB 3.0 motherboard and power supply unit, corresponding with the above specifications
7. **(for WMR)**: Bluetooth 4.0
8. Video output: HDMI 1.4, 2.0 or DisplayPort 1.3 (depending on the chosen equipment requirements)

**\*** *depending on content complexity*

# Compatibility check

VR equipment manufacturers offer compatibility check tools for Windows-based PCs. Choose equipment of interest and download compatibility check tool from official sources.

[**HTC Vive compatibility check**](http://dl4.htc.com/vive/ViveCheck/ViveCheck.exe)

[**Windows Mixed Reality compatibility check**](https://www.microsoft.com/en-us/store/p/windows-mixed-reality-pc-check/9nzvl19n7cnc?rtc=1)

[**Oculus Rift compatibility check**](https://ocul.us/compat-tool)

# Software

The following software must be installed on your PC in order for the Varwin system to operate:

1. Steam
2. Steam VR
3. (*for Windows Mixed Reality equipment*): Windows Mixed Reality for SteamVR
4. Unity 2018.4.1f1 (for creating objects and/or scene templates)

For detailed instructions on required software installation, please see [Varwin installation and launch - Preparing your PC](https://docs.google.com/document/d/154fkmOUdvtJHYM0NmCNBLEfukRp2kzetg4Zc6PGXNBE/edit#heading=h.vnz3cjxmkw24).