



EON-XR PLATFORM HARDWARE REQUIREMENTS

April 2021

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Introduction

The EON-XR Platform allows for creation of immersive lessons that can be used for effective knowledge transfer, with a library of existing assets and lessons and the further ability to create your own.

In minutes, Universities and schools can give their teachers and students the ability to create, experience, and share learning modules while also quickly adding them to their existing curriculum and Enterprises can empower their workers by accelerating learning and improving workplace performance, safety, and efficiency.

Using a one-time effort, content can be displayed across multiple hardware platforms for different learning purposes and experiences.

This document outlines the minimum or recommended specifications for users to be able to experience EON-XR Content on different fixed and mobile platforms.

System Requirements

Windows 10 System Specifications

To get the best experience from EON-XR on your system, the following are the minimum recommended requirements:

Software

- Operating System: Windows 10
- Graphics Support: DirectX 9 or higher

Hardware

- Processor: x86 or x64, 1GHz Pentium processor or equivalent (minimum);
- RAM: 4 GB or higher
- Hard disk: 5 GB of free space on C: drive or higher
- Display: 1024 x 768 high color, 32-bit or higher

Graphics

- System Setup with a Nvidia or AMD Graphics Card
Note: Appropriate graphics card drivers need to be installed with the corresponding manufacturer's graphics card. Using the generic Microsoft Graphics drivers may result in errors or poor performance. Do ensure you install the manufacturer's drivers (if using a graphic card), or graphics drivers from the PC or Motherboard manufacturer if using on-board graphics card provided.
- All DX8 and DX9 hardware (old ATI Radeon X1000; GeForce 4, 5200, 6000 & 7000).
Note: A few features may not be available on those cards.
- All of DX10 hardware (GeForce 8, 9, 200; AMD Radeon HD 2000-4000)
- All of DX11 hardware (GeForce 400 – 900; AMD Radeon HD 5000-7000; Radeon R280)
- Intel Integrated Graphics are supported but due to multiple variations, specific support depends on the model. For best compatibility use the D3D9 or D3D11 render system instead of OpenGL.

Note: EON-XR Desktop application can be downloaded from the EON-XR Platform "Downloads" Page after signing in.

Windows 10 Stereoscopic Projection Specifications

For a mass learning environment, EON-XR can be displayed on a Stereoscopic Projection System for classroom to lecture hall-sized engagements. The following are the technical specifications for such a setup.

Software

- Operating System: Windows 10
- Graphics Support: DirectX 9 or higher

Hardware

- DLP Active Stereo Projection system: with Effective Resolution per screen of 1920x 1080 @ 120Hz, 4000ANSI Lumens, Short throw/ Ultra Short Throw Lens and Support for true Active 3D Stereo
- Integrated Projector ceiling Mount with alignment Controls, Cables and Accessories
- 3D Stereo Front Projection 100" diagonal screen (Motorized). Screen is optimized for EON 3D Visualization. (Screen size subject to space availability)
- Intel Xeon Processor 3.0 GHz or higher,
- 32GB DDR3 Memory or higher

Graphics

- 1 Nvidia Quadro P5000 Graphics Card

3D Glasses

- Active Stereo DLP Link Glasses

Please refer to your accounts manager for additional support on stereoscopic configurations, deployment and setup information.

Apple MacOS Support

EON-XR is now supported on MacOS. For an optimal playback experience, your system should conform to the following additional recommended specifications:

Software

- Operating System: MacOS 10.15 onwards
- EON-XR Desktop App installed via Mac App Store

Hardware

- Processor: Intel Core i5 or better
- Memory: 4 GB RAM or better
- Network: Broadband Internet connection

Graphics

- Minimum Graphics: Integrated Intel graphics or better

Note: EON-XR for MacOS currently supports only 3D Lesson playback which full support coming in Q3 2021.

Virtual Trainer Specifications

For playback of EON-XR 3D Lessons on Virtual Reality Headsets for our Virtual Trainer (VT) playback experience, your system should conform to the following additional recommended specifications:

Software

- Operating System: Windows 10
- Graphics Support: DirectX 9 or higher
- Steam Application installed
- SteamVR add-on Application installed

Hardware

- Processor: Intel Core i5-4590/AMD FX 8350 equivalent or better
- Memory: 4 GB RAM or better
- Network: Broadband Internet connection
- Additional Notes: 1x USB 3.0 or newer, HDMI 1.4, DisplayPort 1.2 or newer

Graphics

- Minimum Graphics: NVIDIA GeForce GTX 970, AMD Radeon R9 290 equivalent or better
- Recommended Graphics: NVIDIA GeForce GTX 970, AMD Radeon R9 290 equivalent or better

Virtual Reality Hardware

- HTC: HTC Vive, HTC Vive Pro
- Oculus: Oculus Quest (Wired), Oculus Quest 2 (Wired), Oculus Rift

Note: EON-XR Desktop application is required along with Steam and Steam VR installed. Please check with your manufacturer's support documentation on how to enable SteamVR for your VR headset.

Note: Oculus devices requires an additional Oculus Desktop Application installed on the computer to interface with the SteamVR application. Please refer to Steam and Oculus websites for additional support documentation.

Mobile Device Specifications

To get the best experience of the EON-XR App on a mobile device or tablet, the following are the recommended requirements:

Platform	Minimum device requirements	Supported Devices
iOS	OS: IOS 10	IOS Device with 2GB of memory or higher (iPhone 7 and iPad Air 2 or higher.)
Android	Software <ul style="list-style-type: none"> - OS: Lollipop (API21) - OpenGL ES 3 Support* Memory <ul style="list-style-type: none"> - RAM: 3GB or higher - Storage: 32GB or higher <i>*(most devices running Lollipop already supports Open GL ES 3)</i>	Any device that meets the device requirements.

Note: EON-XR App can be downloaded from the Google Playstore and iOS AppStore.

Standalone Virtual Reality Specifications

To get the best experience of the EON-XR App on a standalone Virtual Reality (VR) device, the following are the recommended requirements:

Platform	Minimum device requirements	Supported Devices
Oculus Quest Platform	<p>Hardware</p> <ul style="list-style-type: none"> - CPU: Qualcomm® Snapdragon 835 - GPU: Qualcomm® Adreno™ 540 GPU <p>Memory</p> <ul style="list-style-type: none"> - RAM: 4GB or higher - Storage: 64GB or higher <p>Note: Oculus Quest Devices come in fixed configurations</p>	<p>Oculus Quest 1</p> <p>Oculus Quest 2</p>

Note: To download the EON-XR App for Oculus Quest, please head to the Sidequest Store (<https://sidequestvr.com/>) for instructions on how to install the EON-XR App on your Oculus Device.

Standalone Mixed Reality Specifications

To get the best experience of the EON-XR App on a standalone Mixed Reality (MR) device, the following are the recommended requirements:

Platform	Minimum device requirements	Supported Devices
Magic Leap	<p>Hardware</p> <ul style="list-style-type: none"> - NVIDIA® Parker SOC CPU: 2 Denver 2.0 64-bit cores + 4 ARM Cortex A57 64-bit cores (2 A57's and 1 Denver accessible to applications) - GPU: NVIDIA Pascal™, 256 CUDA cores Graphic APIs: OpenGL 4.5, Vulkan, OpenGL ES 3.3+ <p>Memory</p> <ul style="list-style-type: none"> - RAM: 8GB or higher - Storage: 128GB or higher <p>Note: Magic Leap 1 Devices come in fixed configurations</p>	Magic Leap 1

Note: EON-XR App can be downloaded directly from Magic Leap World.

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