

System Requirements

This page provides details on the system requirements to install V-Ray Standalone.

Windows

Please make sure that your system fulfills these requirements before installing V-Ray.

V-Ray is only supported for 64 bit operating systems.

Processor	Intel 64 [*] , AMD64 or compatible processor with SSE4.2 support
RAM	Minimum 8 GB RAM, recommended 64 GB RAM Actual amount required will vary with scene requirements.
Operating System	Windows 8.1, Windows 10, and Windows 11
USB Port	Required for customers using legacy hardware lock, preferably USB 2.0
TCP/IP	Only IPv4 required for distributed rendering is supported. IPv6 is currently not supported
HDD	0.9 GB Hard Disk Space
GPU Support	NVIDIA CUDA with minimum required compute capability 5.2 ^{**} : Maxwell-, Pascal-, Volta-, Turing- and Ampere-based NVIDIA card(s); NVIDIA RTX with compute capability 5.2 ^{**} : RTX cards with latest recommended video driver ; 2GB VRAM V-Ray Production Denoiser: AMD or NVIDIA GPU supporting OpenCL 1.2; NVIDIA AI Denoiser: Maxwell-, Pascal-, Volta-, Turing-, and Ampere-based NVIDIA card with latest recommended video driver

* Windows 11 is required for running Intel Alder Lake processors.

** [CUDA compute capability and card reference](#)

Linux

Please make sure that your system fulfills these requirements before installing V-Ray. Note that V-Ray is only supported for 64 bit operating systems.

Processor	Intel 64, AMD64 or compatible processor with SSE4.2 support
RAM	Minimum 8 GB RAM, recommended 64 GB RAM Larger cache memory, higher memory bandwidth and more cores are better.
Operating System	Red Hat® Enterprise Linux® 7.2 WS, or Red Hat ® Enterprise Linux® 8, or CentOS 7.2 (64bit)
USB Port	Required for hardware lock, preferably USB 2.0
TCP/IP	Only IPv4 is supported. IPv6 is currently not supported
HDD	1 GB Hard Disk Space

GPU Support	<p>NVIDIA CUDA: Maxwell-, Pascal-, Volta-, Turing-, and Ampere-based NVIDIA card(s) with the latest recommended video driver;</p> <p>NVIDIA RTX: RTX cards with the latest recommended video driver</p> <p>V-Ray Production Denoiser: AMD or NVIDIA GPU supporting OpenCL 1.2;</p> <p>NVIDIA AI Denoiser: Maxwell-, Pascal-, Volta-, Turing-, or Ampere-based NVIDIA card with the latest recommended video driver</p> <p>The minimum required compute capability is 5.2*</p>
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* [CUDA compute capability and card reference](#)

macOS

Please make sure that your system fulfills these requirements before installing V-Ray. Note that V-Ray is only supported for 64 bit operating systems.

Processor	Intel 64, AMD64 or compatible processor with SSE4.2 support
RAM	<p>Minimum 8 GB RAM, recommended 64 GB RAM</p> <p>Larger cache memory, higher memory bandwidth and more cores are better.</p>
Operating System	Apple® Mac OS® X 10.9 Mavericks or later
USB Port	Required for hardware lock, preferably USB 2.0
TCP/IP	Only IPv4 is supported. IPv6 is currently not supported
HDD	0.7 GB Hard Disk Space

V-Ray GPU works only with **C++/CPU** devices under macOS. V-Ray GPU can still be used in distributed rendering where a macOS machine runs the CUDA engine on a CPU device together with **Windows/Linux** machine(s) running CUDA engine on GPU device(s).