

Your computer must meet the minimum technical specifications outlined below to run and use Photoshop.

Applicable for November 2019 release (version 21.0) and later

System requirements for earlier releases [Photoshop system requirements | earlier releases](#)

Minimum system requirements for Photoshop

Windows

	Minimum requirement
Processor	Intel® or AMD processor with 64-bit support*; 2 GHz or faster processor
Operating system	Microsoft Windows 7* with Service Pack 1 (64-bit)**, Microsoft Windows 10*** October 2018 update (64-bit) version 1809 or later
RAM	2 GB or more of RAM (8 GB recommended)
Graphics card	nVidia GeForce GTX 1050 or equivalent; nVidia GeForce GTX 1660 or Quadro T1000 is recommended
Hard disk space	3.1 GB or more of available hard-disk space for 64-bit installation; additional free space required during installation (cannot install on a volume that uses a case-sensitive file system)
Monitor resolution	1280 x 800 display at 100% UI scaling with 16-bit color and 512 MB or more of dedicated VRAM; 2 GB is recommended †
OpenGL	OpenGL 2.0-capable system
Internet	Internet connection and registration are necessary for required software activation, validation of subscriptions, and access to online services ††

* [Cloud documents](#) are not supported on Windows 7.

** The 32-bit version of Windows is no longer supported. For support with 32-bit drivers and plug-ins, use earlier versions of Photoshop: [Links to prior version installers and updates](#).

*** Not supported on Windows 10 versions 1511, 1607, 1703, 1709, and 1803.

† 3D features are disabled on computers having less than 512MB of VRAM.

†† **NOTICE TO USERS.** Internet connection, Adobe ID, and acceptance of license agreement required to activate and use this product. This product may integrate with or allow access to certain Adobe or third-party hosted online services. Adobe services are available only to users 13 and older and require agreement to additional terms of use and Adobe's online privacy policy (see <http://www.adobe.com/aboutadobe/legal.html>). Applications and Services may not be available in all countries or languages and may be subject to change or discontinuation without notice. Additional fees or membership charges may apply.

macOS

	Minimum requirement
Processor	Multicore Intel processor with 64-bit support
Operating system	macOS version 10.13 (High Sierra), macOS version 10.14 (Mojave), macOS version 10.15 (Catalina) (macOS 10.13.6 or later is recommended for best performance)
RAM	2 GB or more of RAM (8 GB recommended)
Graphics card	nVidia GeForce GTX 1050 or equivalent; nVidia GeForce GTX 1660 or Quadro T1000 is recommended
Hard disk space	4 GB or more of available hard-disk space for installation; additional free space required during installation (cannot install on a volume that uses a case-sensitive file system)
Monitor resolution	1280 x 800 display at 100% UI scaling with 16-bit color and 512 MB or more of dedicated VRAM; 2 GB is recommended*
OpenGL	OpenGL 2.0-capable system
Internet	Internet connection and registration are necessary for required software activation, membership validation, and access to online services †

* 3D features are disabled on computers having less than 512MB of VRAM.

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Language versions available for Photoshop

Windows and macOS

Photoshop is available in the following languages:

Dansk
Deutsch
English
Español
Français
Français*

Hebrew*
Hungarian
Italiano
Nederlands
Norwegian
Polish
Português (Brasil)
Suomi
Svenska
Turkish
Ukrainian
čeština
Русский
عربي*
日本語
简体中文
繁體中文
한국어

** Arabic and Hebrew supported in a Middle Eastern version with full right-to-left language support, Arabic/Hebrew features, and an English interface; also in a North African French (Français*) version with full right-to-left language support, Arabic/Hebrew features, and a French interface.*

Graphic processor requirements

Features requiring the graphics processor

A compatible graphics processor (also called a graphics card, video card, or GPU) lets you experience better performance with Photoshop and use more of its features. Also, display problems, performance issues, errors, or crashes can occur if your computer's graphics processor or its driver is incompatible with Photoshop.

Features that won't work without a GPU

If your graphics processor is unsupported or its driver is defective, the following Photoshop features won't work:

- Perspective Warp ([more info](#))
- 3D
- Oil Paint
- Render – Flame, Picture Frame, and Tree
- Scrubby Zoom
- Birds Eye View

- Flick Panning
- Smooth Brush Resizing

Features that require a GPU for acceleration

- Lens Blur ([more info](#))
- Artboards
- Camera Raw ([more info](#))
- Image Size – Preserve Details
- Select Focus
- Blur Gallery - Field Blur, Iris Blur, Tilt-Shift, Path Blur, Spin Blur (OpenCL accelerated)
- Smart Sharpen (Noise Reduction – OpenCL accelerated)
- Select and Mask (OpenCL accelerated)

Tested graphics card

Adobe has tested the laptop and desktop versions of the following graphics processor card series:

- nVidia GeForce: 400, 500, 600, 700 series
- nVidia GeForce GTX 965M & 980M
- nVidia GeForce GTX 1050, 1080, 1660
- nVidia Quadro: 2000, 4000 (Windows® and Mac OS), CX, 5000, 6000, K600, K2000, K4000, K5000 (Windows® and Mac OS), M4000, M5000, P2000, P4000, P5000, T1000
- nVidia GRID K1, K2
- AMD/ATI Radeon: 5000, 6000, 7000, R7, R9 series, 7950 Mac OS
- AMD/ATI FirePro: 3800, 4800, 5800, 7800, 8800, 9800, 3900, 4900, 5900, 7900, W8100, W9100, D300, D500, D700
- AMD/ATI FireGL: W5000, W7000, W8000
- AMD RX 480
- Intel® HD Graphics: P530, P630, 5000, 515, 520
- Intel® Iris Pro Graphics: P5200, P6300, P580
- Intel HD Graphics 515 and 520