# Release Notes
## Game On Graphics Driver

**intel® ARC™**

**Date:** March 7, 2025
**Driver Version:** 32.0.101.6647 WHQL

## Gaming Highlights:

Intel® Game On Driver support on Intel® Arc™ B-series, A-series Graphics GPUs for:
- **Rise of the Ronin***

## Fixed Issues:

### Intel® Arc™ B-Series Graphics Products:
- Cyberlink Power Director* may experience tearing and lag in the preview window and exported video.

### Intel® Arc™ A-Series Graphics Products:
- Cyberlink Power Director* may experience tearing and lag in the preview window and exported video.

### Intel® Core™ Ultra Series 1 with built-in Intel® Arc™ GPUs:
- Cyberlink Power Director* may experience tearing and lag in the preview window and exported video on certain Intel® Core™ Ultra Series 2 Mobile Processors.

### Intel® Core™ Ultra Series 2 with built-in Intel® Arc™ GPUs:
- Cyberlink Power Director* may experience tearing and lag in the preview window and exported video on certain Intel® Core™ Ultra Series 2 Mobile Processors.

## Known Issues:

### Intel® Arc™ B-Series Graphics Products:

- Black Myth: Wukong* (DX12) may experience application crash while running benchmark with Full Ray Tracing turned on.
- MLPerf may exhibit intermittent errors when running on multi-GPU system configurations. It is recommended to disable integrated GPU as a workaround.
- Topaz Labs Photo AI* may exhibit corruptions with certain image enhancement operations.
- SPECapc for Maya* 2024 may experience intermittent application freeze during benchmark.
- PugetBench for Davinci Resolve Studio* V19 may experience an application crash while running the benchmark.
- Adobe Lightroom Classic* may experience lower than expected performance. Workaround is to set recommended preferences in the application
  - Under Edit, Preferences, Performance options, choose Graphics Processor as "Custom"
  - Select "Use GPU for Display", "Use GPU for Image Processing" and "Use GPU for Export" options.

## Intel® Arc™ A-Series Graphics Products:

- Call of Duty: Black Ops 6* (DX12) may exhibit darker than expected shadows in certain campaign scenarios.
- Topaz Gigapixel AI* may experience intermittent crash while exporting images.
- PugetBench for Davinci Resolve Studio* V19 may experience an application crash while running the benchmark.

## Intel® Core™ Ultra Series 1 with built-in Intel® Arc™ GPUs:

- PugetBench for Davinci Resolve Studio* V19 may experience errors intermittently with benchmark preset set to Extended.

## Intel® Core™ Ultra Series 2 with built-in Intel® Arc™ GPUs:

- Adobe Premiere Pro* may exhibit corruption in the output video after performing 8K AV1 Encode.
- PugetBench for Davinci Resolve Studio* V19 may experience errors intermittently with benchmark preset set to Extended.
- Call of Duty Modern Warfare 2 Campaign Remastered*(DX11) may experience intermittent crash during gameplay.
- GFXBench* benchmark may experience application crash in certain scenarios.

We continuously strive to improve the quality of our products to better serve our users and appreciate feedback on any issues you discover and suggestions for future driver releases.  If you have an issue to submit, please follow the guidance found here Default level information for reporting Graphics issues.

# Intel® Graphics Software Known Issues:

- Intel® Graphics Software may experience a very intermittent application crash when navigating pages or dialogue boxes due to an underlying framework issue. A fix will be made available in IGS once WinAppSDK 1.7 is available for upgrade. The application can be re-launched without issue as a workaround.
- When using the settings, preferences, reset all settings option in Windows 10 the application may experience an intermittent crash. Settings can be reset from individual pages without issue.
- Intel® Graphics Software may sometimes experience a single application crash on the first re-arrange of metrics within the select metrics window. Subsequent usage will not be affected by this crash again.
- FPS Limiter may not limit FPS with VSync ON and Low Latency Mode enabled.
- Profile controls don't always supersede global controls.
- Intel® Graphics Software may not uninstall entirely when uninstalling using Add or Remove Programs.
- Display scaling at non-native panel resolutions might result in unintended scaling.
- Intel® Graphics Software may experience an application crash while navigating between application profiles in the Profiles page.

## Intel® Graphics Software Performance Tuning (BETA):

- Intel® Graphics Software Performance Tuning is currently in Beta. As such, performance and features may behave unexpectedly. Intel® will continue to refine the Performance Tuning software in future releases.
  - o In multi-GPU scenarios with two performance tuning capable devices, the performance tuning page may attempt to apply changes to one or more devices at once rather than individually based on the GPU selector.

# Notes:

- Take your system lighting to the next level with Intel® Arc™ RGB Controller. Intel® Arc™ RGB Controller was custom designed to allow users to harness 90 individually addressable LEDs on Intel® Arc™ A770 Graphics Limited Edition cards. Intel® Arc™ RGB Controller is available to download here.
  - o Supported on Intel® Arc™ A770 Graphics Limited Edition on Windows®10 and Windows®11.
  - o Intel® and Cooler Master* collaborated on the creation of this software.
  - o For more information on how to enable the RGB lighting for your Intel® Arc™ A770 Graphics Limited Edition card, see the Intel® Arc™ A-Series Graphics – Desktop Quick Start Guide.
- Built-in Intel® Arc™ GPUs in select Intel® Core™ Ultra Processors (series 1 and 2) will support increased graphics memory allocations of up to 57% in Windows 10 and Windows* 11 host systems. For example, a 16GB host system can have up to 9.12GB (16x0.57=9.12) working memory dynamically allocated to the Built-In Intel® Arc™ GPU. Previous default memory allocation was up to 50%.

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# Driver Package Contents:

- Intel® Graphics Driver
- Intel® Media SDK Runtime (21.0.1.35)
- Intel® oneVPL GPU Runtime (21.0.2.14)
- Intel® Graphics Compute Runtime for OpenCL* Driver
- Vulkan*3 Runtime Installer
- Intel® Arc™ Software & Drivers Installer/Uninstaller (1.0.1013.4)
- oneAPI Level Zero Loader and Validation Layer
- Intel® Graphics Compute Runtime for OneAPI Level Zero specification
- Intel® Graphics Software installer (25.6.1152.1)
- Intel® Driver Support Assistant

# Supported APIs:

If you are uncertain of which Intel® processor is in your computer, Intel recommends using the [Intel® Driver & Support Assistant](#) to identify your Intel processor.

| API | Version | Intel Graphics[1] |
|---|---|---|
| DirectX*[4] | 12 | 11th Generation Intel® Core™ processors and higher |
| Vulkan* [3] | 1.3 | 11th Generation Intel® Core™ processors and higher |
| OpenGL* | 4.6 | 11th Generation Intel® Core™ processors and higher |
| OpenCL* | 3.0 | 11th Generation Intel® Core™ processors and higher |
| Intel® oneAPI[*5] Level Zero | 1.20[5] | 11th Generation Intel® Core™ processors and higher |
| Intel® oneAPI Video Processing Library*[6] GPU RT | 2.14 | 11th Generation Intel® Core™ processors and higher and X$^e$ Graphics and newer |

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## Operating System Support:

| Intel Graphics[1] | Microsoft Windows® 11 64-bit October 2024 Update (24H2) | Microsoft Windows® 11 64-bit October 2023 Update (23H2) | Microsoft Windows® 11 64-bit September 2022 Update (22H2) | Microsoft Windows® 11 64-bit October 2021 Update (21H2) | Microsoft Windows® 10 64-bit October 2022 Update (22H2) |
|---|---|---|---|---|---|
| Intel ® Arc™ B580, B570 Graphics (Codename Battlemage) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Intel® Core™ Ultra with built-in Intel® Arc™ GPUs and Intel® Graphics (Codename Meteor Lake, Lunar Lake, Arrow Lake-S, Arrow Lake-H, Arrow Lake-U) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Intel ® Arc™ A770, A750, A580, A380, A310, A310 LP, A770M, A730M, A570M, A550M, A530M, A370M, A350M, A750E, A580E, A380E, A370E, A350E, and A310E Graphics (Codename Alchemist) | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14th Generation Intel Core Processors with Intel UHD Graphics (Codename Raptor Lake Refresh) | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13th Generation Intel Core Processors with Intel UHD Graphics (Codename Raptor Lake-S, Raptor Lake-HX, Raptor Lake-H, Raptor Lake-P, Raptor Lake-U) | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12th Generation Intel Core Processors with Intel Iris Xe Graphics and Intel UHD Graphics (Codename Alder Lake-H, Alder Lake-P, Alder Lake-U, Alder Lake-S, Alder Lake-HX, Alder Lake-N, Twin Lake) | ✓ | ✓ | ✓ | ✓ | ✓ |
| 11th Generation Intel Core Processors with Intel Iris Xe Graphics and Intel UHD Graphics (Codename Tiger Lake, Tiger Lake–H, Rocket Lake) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Intel Iris Xe Discrete Graphics (Codename DG1) | ✓ | ✓ | ✓ | ✓ | ✓ |

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# More on Intel Products:

For more information on Intel Graphics and Intel Processors, please visit:

- Intel® Core™ Ultra Processors Family
- Intel® Arc™ Graphics Overview
- Intel® Arc™ Pro Graphics for Workstations
- 14th Gen Intel® Core™ Desktop Processors
- 13th Gen Intel® Core™ Processor Family
- 12th Gen Intel® Core™ Processors
- Intel® Core™ Processor Family
- Intel® Xeon® E Processors
- Intel® Graphics

# Notes & Disclaimers:

Performance varies by use, configuration and other factors. Learn more at intel.com/performanceindex.
Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates.
No product or component can be absolutely secure.
Your costs and results may vary.
Intel technologies may require enabled hardware, software or service activation.

1. Intel Labs conducts independent testing of supported software on Intel platforms to ensure compatibility. Please refer to software vendor system requirements to ensure compatibility with your system.
2. Are you still experiencing an error preventing the driver update? Look here for why and a solution. Graphics Driver Smart Installer Enhancement allows end-users to upgrade systems with OEM DCH drivers to newer Intel generic DCH drivers. OEM customizations are preserved during this upgrade process, in accordance with Microsoft* DCH driver design principles (refer to Microsoft documentation, "Extension INF Publishing Whitepaper" to learn more). The installer will continue to restrict OEM non-DCH to Intel Generic non-DCH upgrades as well as OEM non-DCH to Intel Generic DCH driver upgrades. End-users will continue to be referred to OEM websites.
WARNING: Installing this Intel generic graphics driver will overwrite your Computer Manufacturer (OEM) customized driver. OEM drivers are handpicked, customized, and validated to resolve platform-specific issues, enable features and enhancements, and improve system stability. The generic driver's intention is to temporarily test new features, game enhancements, or check if an issue is resolved. Once testing is complete Intel advises reinstalling the OEM driver until they validate it and release their own version.

   Any graphics issues found using Intel generic graphics drivers should be reported directly to Intel.  Corporate customers should always use OEM drivers and report all issues through the vendor they purchased the platforms and support through.
3. Product is conformant with the Vulkan* 1.3 specification. Vulkan* and the Vulkan* logo are registered trademarks of the Khronos Group Inc*.
4. In the Intel Graphics Command Center (System > Driver), the 'Microsoft DirectX* version refers to the operating system's DirectX version. The DirectX 12 API is supported but some optional features may not be available. Applications using the DirectX 12 API should query for feature support before using specific hardware features. Please note that DirectX12 is only supported on Windows 10 and DirectX11.3 support is also available on supported Microsoft* operating systems.
5. Intel® oneAPI Level Zero version is supported on 6$^{th}$ generation Intel® Core™ processors and above. Note that Intel® Atom processors are not supported.
6. Intel® oneAPI Video Processing Library GPU Runtime* release – more details below
   a. Intel® oneAPI Video Processing Library Specification: https://spec.oneapi.io/versions/latest/elements/oneVPL/source/index.html
   b. Upgrading from Intel® Media SDK to Intel® oneAPI Video Processing Library
7. See the Windows Subsystem for Linux Installation Guide for Windows 10 onwards for more details about how to install a supported Linux distribution.

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