

Release Notes

DRIVER VERSION: 27.20.100.9316

DATE: March 3, 2021

HIGHLIGHTS:

- Fix for crash seen when launching **Outriders*** on Intel® Iris® X^e Max graphics.
- Game loading time improvements for **Death Stranding*** on Intel® Iris® X^e graphics.
- Stability fixes for **DaVinci Resolve*** on Intel® Iris® X^e Max graphics.

Get a front row pass to gaming deals, contests, betas, and more with [Intel Software Gaming Access](#).

*2 Are you still experiencing an error preventing the driver update? Look here for [why and a solution](#).

IMPROVEMENTS:

- Game loading time improvements for **Death Stranding*** on Intel® Iris® X^e graphics.

KEY ISSUES FIXED:

- Crash seen when launching **Outriders*** on Intel® Iris® X^e Max graphics.
- Performance bottleneck fix for **3DMark Mesh Shader feature test*** (Mesh Shaders off) on Intel® Iris® X^e and X^e Max graphics.
- Stability fixes for **DaVinci Resolve*** on Intel® Iris® X^e Max graphics.
- Intermittent crash or hang seen in **Tom Clancy's Rainbow Six Siege* (DX11)**, **Cyberpunk 2077* (DX12)** when starting gameplay on Intel® Iris® X^e and X^e Max graphics.
- Intermittent crash or hang seen in **Battlefield 4*** when changing Anti-aliasing deferred settings on Intel® Iris® X^e graphics.
- Intermittent crash or hang seen in **Hunt: Showdown***, **Call of Duty: Modern Warfare* (DX12)**.
- Black screen observed in **Dirt Rally*** when game play is switched to full screen using ALT + ENTER on Intel® Iris® X^e graphics.
- Minor graphic anomalies observed in **Call of Duty: Modern Warfare* (DX12)** while game loading in cutscenes and during gameplay on Intel® Iris® X^e graphics.
- Minor graphic anomalies observed during gameplay in **The Witcher 3: Wild Hunt*** on Intel® Iris® X^e and X^e Max graphics.
- Corruption or crash seen in **Talos Principle* (Vulkan)** after changing game settings on Intel® Iris® X^e Max graphics.
- Crash seen while starting new game in **Crysis: Remastered*** on 10th Generation Intel® Core™ processors with Intel Iris Plus graphics.
- No Visual difference seen when changing Texture filtering in **World of Warcraft: Shadowlands* (DX12)**.
- **Teamfight Tactics*** game may disconnect when starting gameplay on Intel® Iris® X^e graphics.
- LCD may show garbage during WMV movie playback with high CPU usage on Intel® Iris® X^e graphics.
- Brightness may not update as expected while adjusting brightness in Battery mode on Intel® Iris® X^e graphics.

- Flickering may be observed in PC screen mode only on Intel® Iris® Xe graphics.
- System may not show output when connected through dock with multiple monitors on Intel® Iris® Xe graphics.
- Black screen observed after unplugging dock with three monitors in combined mode.

DEVELOPER HIGHLIGHTS:

- Support for New Level Zero loader layer tracing API.

KNOWN ISSUES:

- Intermittent crash or hang may be seen in Dark Souls III*, Dirt 5* (DX12) on Intel® Iris® Xe and Xe Max graphics.
- Intermittent crash or hang may be seen in Call of Duty: Black Ops Cold War* (DX12), Watch Dogs: Legion* (DX12) when starting new campaign, Total War Warhammer 2 (DX12) when loading campaign mode / benchmark on Intel® Iris® Xe graphics.
- Intermittent crash or hang may be seen in Tom Clancy's Ghost Recon Breakpoint* (DX11), Metro Exodus* (DX12) when changing graphics settings, Destiny 2* (with anti-cheat enabled).
- Minor graphic anomalies may be observed in Assassin's Creed Valhalla* (DX12), Baldur's Gate 3 (Vulkan), Forza Horizon 4* (DX12), Hitman 2* (DX12), Tom Clancy's Ghost Recon Breakpoint* (DX11), Watch Dogs: Legion* (DX12), Sekiro: Shadows Die Twice* on Intel® Iris® Xe and Xe Max graphics.
- Minor graphic anomalies may be observed in Cyberpunk 2077* (DX12), Far Cry: New Dawn* when starting from a saved file, MechWarrior 5: Mercenaries* (DX12), Gears of War Ultimate Edition* (DX12), Wolfenstein: Youngblood* (Vulkan), 3D Mark Time Spy Extreme benchmark (DX12) on Intel® Iris® Xe graphics.
- Minor graphic anomalies may be observed in Code Vein*, Death Stranding* (DX12), Madden NFL 21* (DX12) on Intel® Iris® Xe Max graphics.
- Lag may be observed while playing a 4K/2K/ Full HD video in 8K60 Tiled mode with application window maximized on Intel® Iris® Xe graphics.
- With Adaptive Sync Enabled, DX9 games (DOTA 2 and Counter Strike: GO) may hang after monitor unplug or setting "PC screen only" on Intel® Iris® Xe graphics.
- Flicker may be observed on internal panel when resizing any 4K video window on Intel® Iris® Xe graphics.
- Display blank out seen on external display while switching from single display HDMI 2.0 to Clone or extend mode on Intel® Iris® Xe graphics.
- During warm reset cycling, system sporadically comes up with Yellow Bang on graphics driver.

CONTENTS OF THE PACKAGE:

- Intel® Graphics Driver
- Intel® Display Audio Driver 10.26.0.9 (6th Gen and related Pentium Silver and Celeron processors)
- Intel® Display Audio Driver 10.27.0.9 (7th, 8th, 9th, 10th Gen)
- Intel® Display Audio Driver 11.1.0.17 (10th Gen with Iris Plus Graphics)
- Intel® Display Audio Driver 11.2.0.4 (Intel® Core™ Processors with Intel® Hybrid Technology)
- Intel® Display Audio Driver 12.1.0.6 (Intel® Iris® Xe Max Graphics)
- Intel® Media SDK Runtime (11.0.0.002)
- Intel® Graphics Compute Runtime for OpenCL* Driver
- Intel® Graphics Command Center
- Vulkan*³ Runtime Installer
- Intel® Graphics Driver Installer (1.7.128)
- OneAPI Level Zero Loader and Validation Layer
- Intel® Graphics Compute Runtime for OneAPI Level Zero specification

OPERATING SYSTEM SUPPORT:

Intel Graphics ¹	Microsoft Windows® 10 64-bit October 2020 Update (20H2)	Microsoft Windows® 10 64-bit May 2020 Update (2004)	Microsoft Windows® 10 64-bit November 2019 Update (1909)	Microsoft Windows® 10 64-bit May 2019 Update (1903)	Microsoft Windows® 10 64-bit October 2018 Update (1809)	Microsoft Windows® 10 64-bit April 2018 Update (1803)	Microsoft Windows® 10 64-bit Fall Creators Update (1709)
Intel® Iris® X ^e Max Graphics (Codename DG1)	X	X	-	-	-	-	-
Intel® Pentium® Processor family and Intel® Celeron® Processor family (Codename Jasper Lake)	X	X	X	-	-	-	-
11th Generation Intel® Core™ Processors with Intel® Iris® X ^e graphics (Codename Tiger Lake)	X	X	X	-	-	-	-
Intel® Core™ Processor with Intel® Hybrid Technology (Codename Lakefield)	X	X	X	-	-	-	-
10th Generation Intel® Core™ processors with Intel Iris Plus graphics (Codename Ice Lake)	X	X	X	X	X	-	-
10th Generation Intel® Core™ processors with Intel UHD Graphics (Codename Comet Lake)	X	X	X	X	X	X	X
9th Generation Intel® Core™ processors, related Pentium®/Celeron® processors, and Intel Xeon® processors, with Intel UHD Graphics 630 (Codename Coffee Lake-R)	X	X	X	X	X	X	X
8th Generation Intel® Core™ processors, related Pentium/ Celeron processors, and Intel Xeon processors, with Intel Iris Plus Graphics 655 and Intel UHD Graphics 610, 620, 630, P630 (Codename Kaby Lake-R, Coffee Lake)	X	X	X	X	X	X	X
7th Generation Intel® Core™ processors, related Pentium/ Celeron processors, and Intel Xeon processors, with Intel Iris Plus Graphics 640, 650 and Intel HD Graphics 610, 615, 620, 630, P630 (Codename Kaby Lake)	X	X	X	X	X	X	X
6th Generation Intel® Core™, Intel Core™ M, and related Pentium® processors with Intel® Iris™ Graphics 540, Intel® Iris™ Graphics 550, Intel® Iris™ Pro Graphics 580, and Intel® HD Graphics 510, 515, 520, 530 (Codename Skylake)	X	X	X	X	X	X	X

SUPPORTED APIs:

Intel Graphics ¹	DirectX*4	OpenGL*	OpenCL*	Vulkan*	Intel Quick Sync Video
Intel Iris X ^e Max Dedicated Graphics family and 11th Generation Intel Core processors with Intel® Iris® X ^e Graphics	12	4.6	3.0	1..2	Yes
10th Generation Intel Core processors, 9th Generation Intel Core processors, 8th Generation Intel Core processors, 7th Generation Intel Core processors and related Intel Xeon/ Pentium/Celeron processors:	12	4.6	2.1	1..2	Yes
6th Generation Intel® Core™ processors	12	4.6	2.0	1.2	Yes
Pentium® and Celeron® Processors with Intel® HD Graphics 500/505, Pentium and Celeron processors with Intel UHD Graphics 600/605	12	4.6	1.2	1.2	Yes

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

Be sure to check out gameplay.intel.com, where you'll find recommended in-game settings for your Intel Graphics system for many more of your favorite games.

Note:

1. Intel Labs conducts independent testing of supported titles on Intel platforms to ensure playability. Please refer to publisher system requirements to ensure compatibility with your system.
2. 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* 1.2 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.

More on Intel Core Processors

For more information on the Intel Core processor family, Intel Xeon E processor family, and 11th Generation Intel Core processors, please visit:

[Intel 11th Generation Core Processors](#)

<http://www.intel.com/content/www/us/en/processors/core/core-processor-family.html>

<http://www.intel.com/content/www/us/en/processors/xeon/xeon-processor-e3-family.html>

<http://www.intel.com/graphics>

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, the Intel logo, Celeron, Intel Core, Iris, Pentium and Xeon are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

* Other names and brands may be claimed as the property of others.