

Release Notes

DRIVER VERSION: 26.20.100.7212

DATE: September 25, 2019

HIGHLIGHTS:

Launch driver for:

- [FIFA 20*](#)
- **10th Generation Intel® Core™ processors with Iris® Plus Graphics**

GAMING HIGHLIGHTS:

Head to the top of the table in [FIFA 20*](#) with Intel Iris Plus Graphics or better.

Experience [Ni no Kuni: Wrath of the White Witch Remastered*](#) and do everything you can to not touch the floor in [Hot Lava*](#) with Intel UHD Graphics 620 or better.

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.

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

NEW FEATURES ON 10th GENERATION INTEL CORE PROCESSORS WITH IRIS PLUS GRAPHICS:

- Support for [DirectX* 12 Variable Rate Shading \(VRS\) Tier 1](#)
- Beta support for [Retro Scaling](#)
- Support for Adaptive Sync (variable refresh rate)
- Support for Half Refresh Rate to improve battery life during full-screen 24Hz video playback.
- Support for VESA Display ID 2.0 compatibility enables an enhanced plug & play experience for 4K and higher resolution displays, HDR, and Adaptive Sync.

NEW FEATURES ON 7th INTEL CORE PROCESSORS AND NEWER:

- Support for HDCP®2.3 on DisplayPort panels.

DEVELOPER HIGHLIGHTS:

- Support for the following Vulkan extensions:
 - VK_KHR_imageless_framebuffer
 - VK_EXT_memory_budget.

IMPROVEMENTS:

NOTE: The following fixes are for systems with 6th, 7th, 8th, 9th and 10th Gen Intel Core processors as well as Pentium® and Celeron® processors.

- Reduced latency for remote gaming scenarios.
- Performance Optimizations for **Gears of War 5***.

KEY ISSUES FIXED:

NOTE: The following fixes are for systems with 6th, 7th, 8th, 9th and 10th Gen Intel Core processors as well as Pentium and Celeron processors with Intel Gen9 graphics.

- HDR option in Windows display settings may be missing.
- Minor graphical anomalies may be observed when opening Microsoft Store or Windows 10 start menu.
- Wide Gamut option may not get enabled in SDR mode on HDR panels.
- Intermittent crashes or hangs may be observed in Solid Edge 2019.
- Color corruption may be observed while resizing video playback window.

This document provides information about Intel Graphics Driver for:

- 10th Generation Intel Core processors with Intel Iris Plus graphics and UHD Graphics.
- 9th Generation Intel Core processors, related Pentium/Celeron processors, and Intel Xeon® processors, with Intel UHD Graphics 630.
- 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.
- 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.
- 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.
- Intel Xeon processor E3-1500M v5 family with Intel HD Graphics P530
- Pentium/ Celeron processors with Intel HD Graphics 500, 505 and Intel UHD Graphics 600, 605

CONTENTS OF THE PACKAGE:

- Intel Graphics Driver
- Intel Audio Driver 10.26.0.8 (6th Gen and related Pentium Silver and Celeron processors)
- Intel Audio Driver 10.27.0.5 (7th, 8th, 9th, 10th Gen)
- Intel Audio Driver 11.1.0.10 (10th Gen with Iris Plus Graphics)
- Intel Media SDK Runtime
- Intel Graphics Compute Runtime for OpenCL™ Driver
- Intel Graphics Command Center
- Vulkan* Runtime Installer (1.1.114.0)

OPERATING SYSTEM SUPPORT:

On 10th Generation Intel Core, 9th Generation Intel Core, 8th Generation Intel Core, 7th Generation Intel Core, and 6th Generation Intel Core processors, Intel Xeon processors for mobile workstations and related Pentium/Celeron processors:

- Microsoft Windows® 10-64 - Fall Creators Update (1709)

- Microsoft Windows 10-64 - April 2018 Update (1803)
- Microsoft Windows 10-64 - October 2018 Update (1809)
- Microsoft Windows 10-64 – May 2019 Update (1903)

KNOWN ISSUES:

On platforms with 6th, 7th, 8th, 9th and 10th Gen Intel Core processors (model numbers ending in 'U') as well as Pentium and Celeron processors with Intel HD Graphics 500/505 and Intel UHD Graphics 600/605:

- Minor graphics anomalies may be observed in Arma 3* and NextPVR.
- Some games may not have audio using Intel Display Audio in full screen mode when the resolution is different than what is set in Windows or Intel Graphics Command Center.
- Intermittent crash or hang may be observed when changing UHD Blu-Ray PowerDVD playback on an external monitor from full-screen mode to windowed mode.

SUPPORTED PRODUCTS:

HARDWARE

All platforms with the following configurations are supported:

| Intel Graphics ¹ | DirectX ² | OpenGL* | OpenCL | Vulkan* | Intel Quick Sync Video |
|---|----------------------|---------|--------|---------|------------------------|
| 10 th Generation Intel Core processors with Intel Iris Plus Graphics | 12 | 4.6 | 2.1 | 1.1.120 | Yes |
| 10 th Generation Intel Core processors with Intel UHD Graphics | 12 | 4.6 | 2.1 | 1.1.120 | Yes |
| 9 th Generation Intel Core processors with Intel UHD Graphics 630 | 12 | 4.6 | 2.1 | 1.1.120 | Yes |
| 8 th Generation Intel Core processors with Intel Iris Plus Graphics 655 | 12 | 4.6 | 2.1 | 1.1.120 | Yes |
| 8 th Generation Intel Core processors with Intel UHD Graphics 610/620/630/P630 | 12 | 4.6 | 2.1 | 1.1.120 | Yes |
| 7 th Generation Intel Core processors with Intel Iris Plus Graphics 640/650 | 12 | 4.6 | 2.1 | 1.1.120 | Yes |
| 7 th Generation Intel Core processors with Intel HD Graphics 610/615/620/630 | 12 | 4.6 | 2.1 | 1.1.120 | Yes |
| Intel Xeon processor E3-1500M v5 family with Intel HD Graphics P630 | 12 | 4.6 | 2.1 | 1.1.120 | Yes |
| Pentium Processors with Intel HD Graphics 610 | 12 | 4.6 | 2.1 | 1.1.120 | Yes |
| 6 th Generation Intel Core processors with Intel Iris Pro Graphics 580 | 12 | 4.6 | 2.0 | 1.1.120 | Yes |
| 6 th Generation Intel Core processors with Intel Iris Graphics 540/550 | 12 | 4.6 | 2.0 | 1.1.120 | Yes |

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|---|----|-----|-----|---------|-----|
| 6 th Generation Intel Core processors with Intel HD Graphics 520/530 | 12 | 4.6 | 2.0 | 1.1.120 | Yes |
| Intel Xeon processor E3-1500M v5 family with Intel HD Graphics P530 | 12 | 4.6 | 2.0 | 1.1.120 | Yes |
| Intel Xeon processor E3-1500M v5 family with Intel Iris Pro Graphics P580 | 12 | 4.6 | 2.0 | 1.1.120 | Yes |
| Intel Core M processors with Intel HD Graphics 515 | 12 | 4.6 | 2.0 | 1.1.120 | Yes |
| Pentium and Celeron processors with Intel HD Graphics 500/505/510 | 12 | 4.6 | 1.2 | 1.1.120 | Yes |
| Pentium and Celeron processors with Intel UHD Graphics 600/605 | 12 | 4.6 | 1.2 | 1.1.120 | Yes |

Note:

1. If you are uncertain of which Intel processor is in your computer, Intel recommends using the [Intel Processor Identification Utility](#) or Install the [Intel Driver & Support Assistant](#) (previously called Intel Driver Update Utility) to identify your Intel processor.
2. 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.
3. 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.

More on Intel Core Processors

For more information on the Intel Core processor family, Intel Xeon E processor family, and 10th Generation Intel Core processors, please visit:

[Intel 10th 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>

Work and play in high resolution with Intel UHD Graphics, Intel Iris Graphics, Intel Iris Plus Graphics, and Intel Iris Pro Graphics. Watch captivating 4K Ultra HD (UHD) video on up to three screens, edit photos and videos like a pro, and immerse yourself in vividly rendered, seamless 3D gameplay - all with the added power boost of an Intel Core processor. Intel Graphics bring stunning visuals to thinner and lighter portable devices, like laptops, 2 in 1s, and desktop computers.

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](#).

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