

Release Notes

DRIVER VERSION: 26.20.100.7323

DATE: October 18, 2019

HIGHLIGHTS:

Launch driver for:

- **Windows 10 November 2019 Update (Version 1909) RTM**

HIGHLIGHTS:

This driver is ready for the Windows 10 November 2019 update RTM.

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.

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DEVELOPER HIGHLIGHTS:

- Support for Vulkan Extensions
 - VK_EXT_shader_demote_to_helper_invocation
 - VK_KHR_buffer_device_address
- Direct ML metacommands support for transposed GEMV in FP32.

FEATURES:

- Added Support for YUV 420 on Display Port for 10th Gen Intel Core processors with Iris Plus graphics

KEY ISSUES FIXED:

- Intermittent crash or hang may be observed when resizing Ultra-HD Blu-Ray PowerDVD playback on an external monitor from full-screen mode to windowed mode.
- Minor graphical anomalies may be observed in [Arma 3*](#), Creo.
- Screen may blink during the loading of 3DMark Time Spy benchmark.
- System hang may be observed when unplugging detachable internal panel.
- Graphical anomalies may be observed on opening system lid and resuming from sleep when system connected to external monitor via HDMI.
- Security improvements for 10th Gen Intel Core processors with Iris Plus graphics.
- Fixed limited color range issue when display is duplicated to external USB-C display on 10th Gen Intel Core processors with Iris Plus graphics.
- Intel Direct3D 11 extension fixes.

- Vulkan exclusive mode loading time Improvements.

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 10.27.0.6 (7th, 8th, 9th, 10th Gen)
- Intel Audio Driver 11.1.0.11 (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)
- Microsoft Windows 10-64 – November 2019 Update (1909)

KNOWN ISSUES:

- Minor graphics anomalies may be observed in NextPVR and Code Vein.
- Intermittent crash or hang may be observed in The Surge 2* (Vulkan).
- Some 3DMark benchmark tests may not complete when running on Windows 10 May 2019 Update (1903) after installing latest Windows 10 x64 update KB4515384(18362.329).

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
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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