

Release Notes

DRIVER VERSION: 15.60.0.4849

(Windows Driver Store Version 23.20.16.4849)

DATE: November 06, 2017

SUMMARY:

- **HDR Launch Driver**
- **Windows* Mixed Reality[†] Launch Driver**

Netflix* HDR and YouTube* HDR are available for the first-time ever on the PC, on Intel® Graphics!

This driver enables the Microsoft Windows® 10 Fall Creators Update, thereby providing support for users to experience HDR playback & streaming on systems with Intel® UHD Graphics 620 and Intel® HD Graphics 620 or better, enjoyed on HDR capable external monitors and TVs. For more info please see the whitepaper [here](#).

Escape the everyday to a world even beyond your imagination! With Windows* Mixed Reality[†], you can explore new worlds, travel to top destinations, play exciting games, lose yourself in the best movies and entertainment and more. With a headset and a Windows* PC powered by a 7th Gen Intel® Core™ i5 processor with Intel® HD Graphics 620 or better, you can go places you've always dreamed - without even leaving home!

This new WDDM 2.3 driver also provides security fixes, support for Wide Color Gamut, enables 10-bit HDR playback over HDMI, and enables video processing and video decode acceleration in DirectX* 12. For a full list of Microsoft Windows® 10 Fall Creators update features, please see [here](#).

Experience the magic of [The LEGO® Ninjago® Movie™ Video Game](#) on processors with Intel® HD Graphics 620 or better.

Battle singing Orcs and score legendary goals while enjoying performance optimizations and playability improvements in the newly released [Middle-earth: Shadow of War*](#) and [Pro Evolution Soccer 2018](#) on Intel® Iris® Pro Graphics. Take on The Cabal* and keep the enemy in your sights in these newly released, fast action-packed sequels to legendary favorites, [Destiny 2*](#), [Call of Duty®: WWII](#), and [Divinity: Original Sin 2*](#) on Intel® Iris® Pro Graphics.

Check out the all new look and feel of [gameplay.intel.com](#), where you'll find recommended game settings for many of your favorite PC games.

Install the [Intel® Driver & Support Assistant](#) (previously called Intel® Driver Update Utility), which now automatically checks for drivers on a regular basis and can provide notifications when new drivers are available.

[†]Windows Mixed Reality requires a compatible Windows® 10 PC and headset, plus the Windows® 10 Fall Creators Update; PC requirements may vary for available apps and content.

This document provides information about Intel's Graphics Driver for:

- 8th Generation Intel® Core processors with Intel® UHD Graphics 610, 620, 630.
- 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 processors, 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

CONTENTS OF THE PACKAGE:

- Intel® Graphics Driver
- Intel® Display Audio Driver (upgraded to v10.24.00.01)
- Intel® Media SDK Runtime
- Intel® OpenCL* Driver
- Intel® Graphics Control Panel
- Vulkan* Runtime Installer

Operating System Support

On 8th Generation Intel® Core processors, 7th Generation Intel® Core processors, 6th Generation Intel® Core and Intel® Mobile Xeon processors and related Pentium/Celeron:

- Microsoft Windows® 10 64-bit

NEW FEATURES:

Microsoft Windows® 10 Fall Creators update features, found [here](#).

Support for DXIL*, including DirectX* 12 Shader model 6.0 and 6.1. This allows applications to use shaders compiled with the LLVM-based HLSL compiler from Microsoft*. In particular, it supports Wave Intrinsics, allowing fast sharing of data within SIMD execution.

KEY ISSUES FIXED:

Graphical anomalies may be observed in Divinity: Original Sin 2*, Pro Evolution Soccer 2018*, Blu-ray* playback via Cyberlink PowerDVD*

Intermittent crashes or hangs may be observed in DOTA 2* (Vulkan* version), when switching to a lower resolution on an embedded display panel

Performance optimizations and playability improvements in Middle-earth: Shadow of War*

Improved memory usage in OpenCL* applications

Security improvements

SUPPORTED PRODUCTS:

HARDWARE

All platforms with the following configurations are supported:

Intel® Graphics ¹	DirectX* ²	OpenGL*	OpenCL*	Vulkan*	Intel® Quick Sync Video
8th Generation Intel® Core™ processors with Intel® UHD Graphics 610/620/630	12	4.5	2.1	1.0.61	Yes
7th Generation Intel® Core™ processors with Intel® Iris® Plus Graphics 640/650	12	4.5	2.1	1.0.61	Yes

7th Generation Intel® Core™ processors with Intel® HD Graphics 610/615/620/630	12	4.5	2.1	1.0.61	Yes
Intel® Xeon® processor E3-1500M v5 family with Intel® HD Graphics P630	12	4.5	2.1	1.0.61	Yes
Pentium Processors with Intel® HD Graphics 610	12	4.5	2.1	1.0.61	Yes
6th Generation Intel® Core™ processors with Intel® Iris® Pro Graphics 580	12	4.5	2.0	1.0.61	Yes
6th Generation Intel® Core™ processors with Intel® Iris® Graphics 540/550	12	4.5	2.0	1.0.61	Yes
6th Generation Intel® Core™ processors with Intel® HD Graphics 520/530	12	4.5	2.0	1.0.61	Yes
Intel® Xeon® processor E3-1500M v5 family with Intel® HD Graphics P530	12	4.5	2.0	1.0.61	Yes
Intel® Xeon® processor E3-1500M v5 family with Intel® Iris Pro Graphics P580	12	4.5	2.0	1.0.61	Yes
Intel® Core™ M processors with Intel® HD Graphics 515	12	4.5	2.0	1.0.61	Yes
Pentium® and Celeron® Processors with Intel® HD Graphics 500/505	12	4.5	1.2	1.0.61	Yes
Pentium Processors with Intel® HD Graphics 510	12	4.5	1.2	1.0.61	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® Iris® and HD Graphics Control Panel (under Options > Options menu > Information Center), the 'Installed DirectX* version' refers to the operating system's DirectX version. The Information Center's 'Supported DirectX* Version' refers to the Intel® Graphics Driver's supported 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.

KNOWN ISSUES

- Graphics anomalies may be observed in Assassin's Creed® Syndicate, Titanfall® 2 (6th Gen Intel® Core™ Only), Paragon*, Elex* and other games
- Intermittent crashes or hangs may occur in Forza Motorsport 7* (if run on systems with less than 12GB RAM), The Surge*, Tom Clancy's The Division* (DX12*), The Guild 3*, SiSoft Sandra Benchmark*, Rise of the Tomb Raider*, Handbrake* (during AVC/HEVC transcode), or during playback of 3D video
- Long load times may be observed for some tracks in Forza Motorsport 7*
- Bezel value may not correctly increment/decrement when using bezel correction in collage mode

More on Intel® Core™ processors

For more information on the Intel® Core™ processor family, Intel® Xeon® processor E3 family, and 8th Generation Intel® Core processors, please visit:

[Intel® 8th 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, Iris® Graphics, Iris® Plus Graphics, and 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](#).

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