HIGHLIGHTS:
- Vulkan* 1.2 API Support
- Performance Optimizations for Unravel two* and Oninaki*

GAMING HIGHLIGHTS:
Experience the incredible campaigns and breathtaking visuals of Warcraft III: Reforged* on Intel® UHD Graphics or better. Also immerse yourself in the open world action role-playing game Dragon Ball Z: Kakarot* on Intel Iris® Plus graphics 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:
- Vulkan* 1.2 API Support

PERFORMANCE OPTIMIZATIONS:
- This driver provides performance optimizations and playability improvements for Unravel two* and Oninaki* on 10th Generation Intel Core™ processors with Intel Iris Plus graphics.

KEY ISSUES FIXED:
- Intermittent crash or hang may be observed in Civilization 6*.
- Unable to switch to PC screen only mode when connected to some external HDMI monitors on 10th Generation Intel Core processors with Intel Iris Plus graphics
- HDR monitor may not display when connected to HDMI via Type-C dongle.
- Blank-out may be observed while changing the Refresh Rate in Intel Graphics Command Center with HDR option enabled in OS display page.

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.
• 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 10.26.0.9 (6th Gen and related Pentium Silver and Celeron processors)
• Intel Audio Driver 10.27.0.7 (7th, 8th, 9th, 10th Gen)
• Intel Audio Driver 11.1.0.14 (10th Gen with Iris Plus Graphics)
• Intel Media SDK Runtime (9.0.071-M)
• Intel Graphics Compute Runtime for OpenCL™ Driver
• Intel Graphics Command Center
• Vulkan* Runtime Installer (1.2.131.0)

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 Battlefield V* (DX12), Star Wars Jedi: Fallen Order*, Ring of Elyium* (DX12), Stay Out*.
• Bubbles screen saver may not launch.
• Black screen may be observed when booting to “Choose an operation system” page with two windows 19H1 OS installed on 10th Generation Intel Core processors with Intel Iris Plus graphics
 Supported Products:

**Hardware**
All platforms with the following configurations are supported:

<table>
<thead>
<tr>
<th>Intel Graphics¹</th>
<th>DirectX®²</th>
<th>OpenGL*</th>
<th>OpenCL</th>
<th>Vulkan*</th>
<th>Intel Quick Sync Video</th>
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<tbody>
<tr>
<td>10th Generation Intel Core processors with Intel Iris Plus Graphics</td>
<td>12</td>
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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/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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1 Product is conformant with the Vulkan* 1.2 specification. Vulkan* and the Vulkan* logo are registered trademarks of the Khronos Group Inc*.