2020 Fusion Software

Graphics Card Appendix (Windows-Based PCs)

(2020 Fusion Version 6)

4th December 2017

Introduction

This appendix provides details of recommended **dedicated** graphics cards, the use of which has a direct impact on the performance of 2020 Fusion's 'Wireframe', 'White Fill', 'Colour Fill' and 'Draft' renders, as well as upon the performance of the application's item previews, navigation renders and covering (tiling) renders.

The list reflects those NVidia and AMD cards that are currently generally available in the marketplace, but also includes details of some earlier series for those considering the installation of 2020 Fusion on older hardware.

Please note that this is not a comprehensive list and that, of those listed, in-house testing will not have been conducted with all cards. However, the list has been fully validated as comprising cards that conform to Fusion's key requirements – specifically, those that are compatible with 2020 Fusion's internal render engine and support Microsoft DirectX 11.

Most importantly, these recommendations underline the fact that any system using integrated graphics chipsets and drivers (such as Intel HD Graphics) is not regarded as a supported environment for using 2020 Fusion.

Recommendations

Please be aware that several of the series listed may include some models at less than our recommended 2GB; any graphics cards with less than 2GB of memory are not considered to be suitable.

With the advent of screens and monitors using higher screen resolutions, it is now 2020's recommendation that for resolutions greater than 1920 x 1080, a 4 GB Graphics Card, or greater, should be used to achieve optimum performance.

NVIDIA:

- **NVIDIA Desktop GPUs:**

Contemporary Models:

- GeForce
  - GT 630 or later (@2GB or greater)
  - GT 730 or later (@2GB or greater)
  - 900 series (980 Ti advertised as '4k ready')
  - 10xx series (1060 or higher advertised as '4k ready')
  - GTX Titan series

Older Models:

- 9000 series, or later - i.e. 9000, 100, 200, 300 (@2GB or greater)
- 400 series (@2GB or greater)

- ***NVIDIA Mobile GPUs:***

Contemporary Models:

- GeForce
  - GT 630M or later (@2GB or greater)
  - GT 730M or later (@2GB or greater)
  - GeForce 830M or later
  - GeForce 900M series
  - GeForce 10 series (1060 or higher advertised as '4k ready')
- Quadro
  - MxxxxM series

Older Models:

- GeForce
  - 9000M series, or later - i.e. 9000M, 100M, 200M, 300M (@2GB or greater)
  - 500M series, or later (@2GB or greater)
- Quadro
  - KxxxxM series, or later (@2GB or greater)

- ***NVIDIA Workstation GPUs:***

Contemporary Models:

- Quadro
  - Kxxx series
  - Mxxx series
  - Pxxx series (P1000 or higher advertised as '4k ready')

Older Models:

- Quadro
  - FX x800 series, or later – i.e. x000
  - Kxxx series (@2GB or greater)

AMD:

- ***AMD Desktop GPUs:***

Contemporary Models:

- Radeon HD

    o 7570 or later (@2GB or greater)

    o 8570 or later (@2GB or greater)

    o R5 240 or later (@2GB or greater)

    o RX 300 series

    o RX 400 series (RX470 or higher advertised as '4k ready')

    o RX 500 series (RX570 or higher advertised as '4k ready')

    o RX Vega series (all advertised as '4k ready')

Older Models:

- Radeon HD

    o 2000 series or later - i.e. 2000, 3000, 4000, 5000, 6000 series (@2GB or greater)

- ***AMD Mobile GPUs:***

Contemporary Models:

- Mobility Radeon HD

    o 8730M or later (@2GB or greater)

    o R5/7/9 M200 series

    o R5/7/9 M300 series

    o RX M400 series (R9 M470 or higher advertised as '4k ready')

- FirePro

    o MxxxxM series (@2GB or greater)

    o Radeon Pro WX x100 series

Older Models:

- Mobility Radeon HD

    o 2000M series, or later - i.e. 2000M, 3000M, 4000M, 5000M, 6000M, 7000M (@2GB or greater)

- ***AMD Workstation GPUs:***

Contemporary Models:

- FirePro

    o V5900 or later (@2GB or greater)

    o W4100 or later (@2GB or greater)

    o Radeon Pro 400 series

    o Radeon Pro 500 series (560 or higher advertised as '4k ready')

Older Models:

- FireGL Vxxxx series (@2GB or greater)
- FirePro 3D Vxxxx series (@2GB or greater)
- FirePro series (@2GB or greater)
- FireStream series (@2GB or greater)
- FirePro M series, or later (@2GB or greater)
    - *Except the FirePro M5725*