2020 Fusion Software

Graphics Card Appendix (Windows-Based PCs)

5th March 2019

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 *(preferred)* and AMD (also supported) 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 existing 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 2020 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 note that several of the older series listed may include some models at less than our recommended 2GB of memory; any graphics cards with less than this are not considered 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 4GB Graphics Card (or greater) should be used to achieve optimum performance.

Equally, 2020 Fusion users working with multiple design or presentation windows on additional screens should also consider using a 4GB graphics card as a minimum.

Users should also make every effort to ensure that their graphics card drivers are fully up to date to ensure optimum performance both in general terms as well as specifically when using 2020 Fusion.

Finally, users should note that NVIDIA and AMD have their own lifecycle support policies for their respective graphics card drivers; this means that ongoing driver updates are no longer being issued for some of their older models.

NVIDIA:

NVIDIA Desktop GPUs:

GeForce:

- Contemporary Models (recommended):
    - 20 series
    - 16 series

- Volta (Titan) series
- 10 series

- Older Models (also supported):
  - 400 series, 500 series, 600 series, 700 series and 900 series (only those @2GB or greater)

NVIDIA Mobile GPUs:

GeForce:

- Contemporary Models (recommended):
  - 10 series
- Older Models (also supported):
  - 900M (9xxM) series
  - 400M (4xxM) series, 500M (5xxM) series, 600M (6xxM) series, 700M (7xxM) series and 800M (8xxM) series

    (only those @2GB or greater)

NVIDIA Workstation GPUs:

Quadro Desktop Workstation:

- Contemporary Models (recommended):
  - RTX x000 series
  - GVxxx series
  - Pxxx series
  - Mxxx series
- Older Models (also supported):
  - Quadro FX (x800) series, Quadro x000 series and Kxxx series

    (only those @2GB or greater)

Quadro Mobile Workstation:

- Contemporary Models (recommended):
  - Px200 series
  - Px000 series
  - Mx500 series
  - Mx200 series

    (only those @2GB or greater)
- Older Models (also supported):
  - Kx200M series and Mx000M series
  - xxxxM series, Kx000M series, Kx100M series and NVS 5400M

    (only those @2GB or greater)

AMD:

AMD Desktop GPUs:

Mobility Radeon HD:

- Contemporary Models (recommended):
  - VII series
  - RX Vega series
  - RX 400 series and RX 500 series
    (only those @2GB or greater)
- Older Models (also supported):
  - HD 8000 series, R5/R7/R9 200 series, R5/R7/R9 300 series
    (only those @2GB or greater)

AMD Mobile GPUs:

Mobility Radeon HD:

- Contemporary Models (recommended):
  - RX M400 series
  - Radeon 500 series
- Older Models (also supported):
  - HD 8000M series, R5/R7/R9 M200 series, R5/R7/R9 M300 series
    (only those @2GB or greater)

AMD Workstation GPUs:

FirePro Desktop Workstation:

- Contemporary Models (recommended):
  - Radeon Vega series
  - Radeon Pro WX x100 series
- Older Models (also supported):
  - FirePro Workstation series (Wx000, Wx100, Wx300)
  - FirePro 3D series (V000) and FirePro series (Vx900)
    (only those @2GB or greater)

FirePro Mobile Workstation:

- Contemporary Models (recommended):
  - Radeon Vega Pro series, Radeon Pro 500 series, Radeon Pro 400 series
- Older Models (also supported):
  - FirePro Mobile series
    (only those @2GB or greater - *Except the FirePro M5725)*