

Replacing Laptops and/or Projectors can be a bit of a minefield as things are ever changing, and at the moment, no clear future resolution either. I've given a couple of real examples as regards Laptops, and the issues surrounding being able to run a projector. Hopefully, it may help you further.

- Projector - as regards resolution I would say 1400x1050 (or 1920x1080) is the minimum requirement and ideally 1600x1200 (or 1920x1200) The temptation is to go for the higher 4K resolution, but given these are overpriced at the moment for the ones that will give the accurate renditions, if I was going for something with an average budget I would be sticking with the mid-range resolution, with as good a contrast and colour rendition as possible. Benq are some of the best for this at the moment. Have a look here for more background info

- <https://www.projectorpoint.co.uk/camera-club-projector-advice> (I have seen a few 4K projectors and a few 4K panels while out talking or Judging recently and the quality has been quite poor.)

- Laptops – you need to ensure the laptop will drive the resolution you require for your projector, otherwise the projector resolution will likely be dummed down to the resolution of the laptop screen (or in the case of a 4K projector it may just not work at all). The simplest way to ensure you get the resolution required on the projector is therefore to ensure the laptop screen is capable of the projector resolution as a minimum. to has the capability to run the resolution of the projector you want to purchase as otherwise it just may not work.

As an example - If you have a look at the following Dell laptops, note both have a 1920x1200 screen, but note the first one states under ports –

[Dell Vostro 16 inch Laptop \(5620\) : Computer Laptops | Dell UK](#) states HDMI 1.4 (Maximum resolution supported over HDMI is 1920x1080 @60Hz. No 4K/2K output)

It also has a 1 USB 3.2 Gen 2x2 Type-C® port with DisplayPort which might support the 1920x1200 projector but would have to be confirmed as the graphics card may not support running two displays at 1920x1200.

[Vostro 16 Inch Laptop - Computer Laptops | Dell UK](#) shows the HDMI 1.4 as supporting up to 4K and has a Thunderbolt port which will also do so. However, as the laptop screen is only up to 1920x1200 you would only be able display up to 1920x1200 on both laptop screen and projector, if using a higher resolution, you could only display on the projector only.

This second laptop gives the minimum recommended RAM required for photoshop 16GB; but needs the 4GB graphics card upgrade option to comply with the photoshop requirement. NB – The lack of an adequate Graphics card will mean that some aspects of Photoshop may not be available to use if not adequate so is more important than added RAM. Also, the 4GB of RAM will be used by Photoshop as added RAM if required. I would consider this the minimum spec laptop to purchase.