Optical filter influence on captured image

Even if camera sensor has RGB filters sensor is sensitive to wider range of light than human eye can see. This usually covers spectrum range from UV to NIR. Some sort of filter is required in order to get required image style or properties. Various optical filters have different use purposes.This topic covers 3 use cases Visible, NIR and full spectrum.

Example pictures below represents different use scenarios:

Visible spectrum

650nm IR CUT filter should be used in order to get natural picture look.



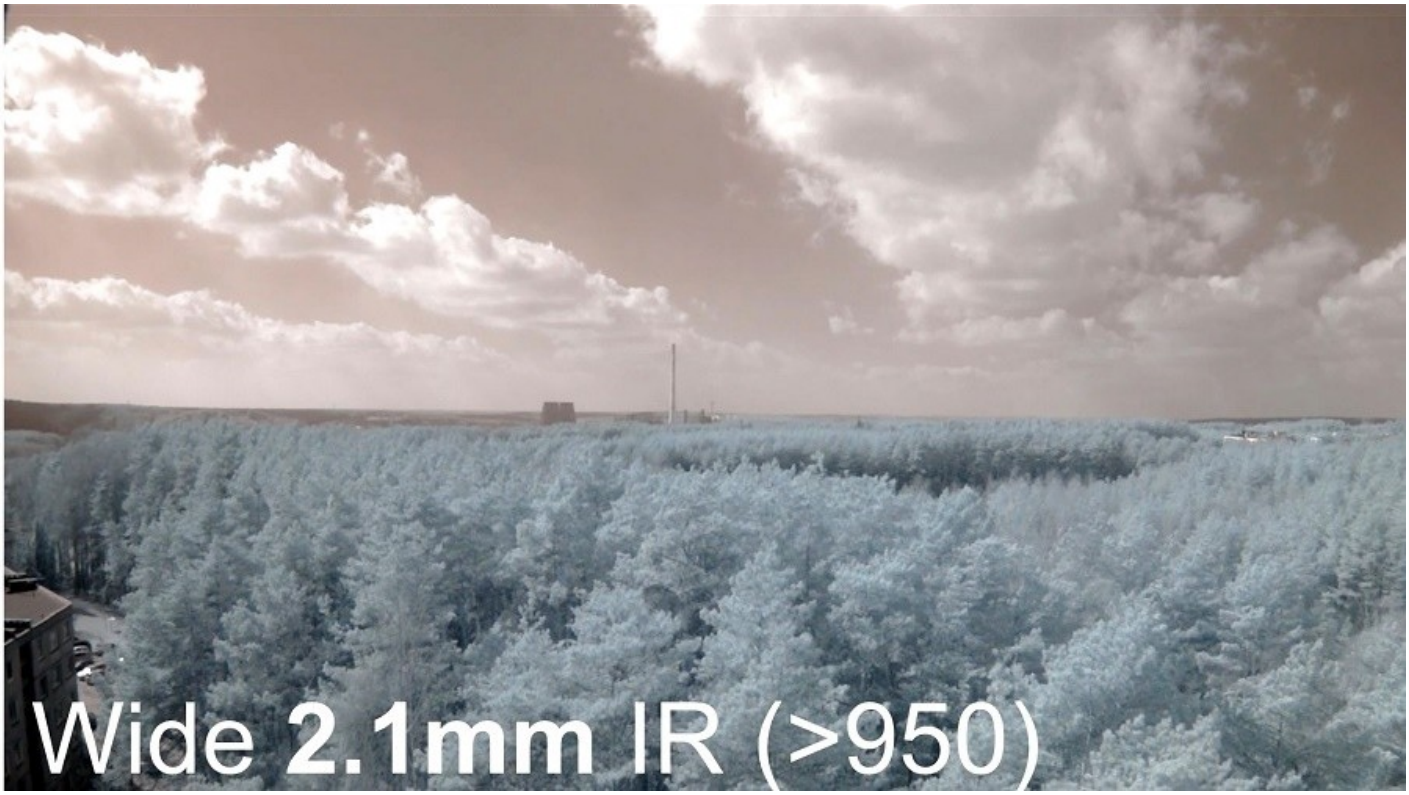
Full spectrum

No filter is used in the camera. In this scenario all full spectrum of light will reach sensor.



NIR spectrum

In this scenario only IR portion of light can reach sensor.



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