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IS IT TRUE THAT COOLED
CAMERAS ARE MORE SENSITIVE
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Is It True That Cooled Cameras are More Sensitive than Non-cooled Cameras?

The temperature has a significant impact on certain noise sources prevalent in cameras, which contribute to the total readout noise of an image sensor. When electronic devices are operated continuously, they dissipate heat due to losses in the signal processing, and reduction of temperature via "cooling" of image sensor components or electronic circuits in devices can indeed improve image quality and performance. Upon further inspection, the advantages and disadvantages of cooling reveal that cooled cameras may not necessarily be more sensitive than non-cooled cameras.

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