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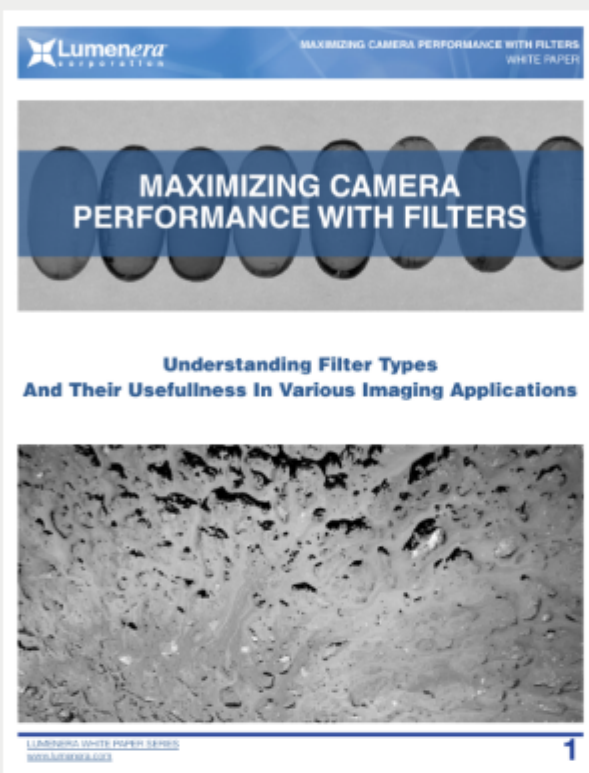

Maximizing Camera Performance with Filters

The use of filters allows a camera to be more selective with what kind of light will make contact with the sensor. Filters are often designed with the intent of blocking out a certain amount of light, whether this is a specific band of light (a set of color(s)) or by removing potential glare and improving contrast. Either way, the purpose of a filter is to reduce the light entering the camera. As such, the sensitivity of the sensor needs to be considered when choosing an appropriate filter. This paper will cover various practical applications for filter use such as intelligent traffic systems (ITS), machine vision and inspection, precision agriculture, and multispectral imaging – along with a detailed explanation of filter theory.

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