



# WHITE PAPERS

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### Are Large Image Sensors A Perfect Fit for Large Field of View Microscope Applications?

In the last years nearly all microscope manufacturers used image circles with 18 mm diameter to image their field of view to cameras connected to their microscopes. Only recently some microscope manufacturers increased their field of view to offer more information to their customers. However this also resulted in larger image circles to be covered by cameras with their image sensors. Therefore a run for cameras with appropriate image sensors started, and soon large image sensors were advertised, such that the questions arose: are larger image sensors a perfect fit for large field-of-view (FOV) microscope applications. Before the question can be answered, we should have a look to the relationship between resolution, magnification, spectral range and pixel size of image sensors.

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