Wednesday, November 3, 2021

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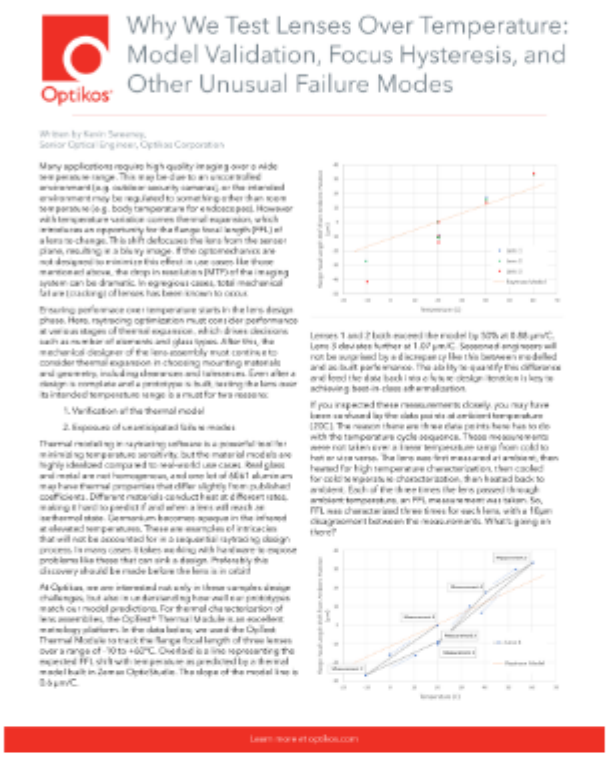

Why We Test Lenses Over Temperature: Model Validation, Focus Hysteresis, and Other Unusual Failure Modes

Athermalization of imaging assemblies is a common challenge in optomechanical lens design. A prototype that achieves the thermal performance predicted by raytracing software is far less common. This is often due to behavior that is unforeseeable before characterization of as-built hardware. This article details how temperature-controlled metrology using the OpTest Thermal Module can uncover such undesirable effects so that they can be quantified, understood, and ultimately solved.

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