



## WEBINARS

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# Understanding the Modulation Transfer Function and Beginning the Lens Selection Process

Tuesday, March 21, 2023 1:00 PM - 2:00 PM EDT

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## .: About This Webinar

Stuart Singer of Schneider Optics, Inc. discusses how to understand the modulation transfer function (MTF) with respect to lens performance, while avoiding complex math such as fast Fourier transforms. The MTF is often the most important aspect of a lens because it shows how well a lens is able to reproduce the object within its view. Singer shares the steps that are needed to begin selecting a proper lens that meets specific imaging and system requirements. Finally, he details which lenses are appropriate for various imaging systems.



### Who should attend:

Optical engineers and all those working with optics who are interested in gaining further understanding of the modulation transfer function. Engineers, researchers, and R&D scientists who work with optical design, lens selection, cameras, machine vision, microscopy, and astronomy. Professionals who purchase lenses and optical components.

### About the presenter:

Stuart Singer is CEO at Schneider Optics Inc. He has over 40 years of experience in optical engineering, optical manufacturing, lens design, and management. He also has technical sales experience in optical applications for machine and robotic vision, military reconnaissance, spaceborne optical systems, industrial and commercial, and motion picture and television industries.

Singer was formerly the senior vice president and CTO of Schneider Optics, the U.S. subsidiary of Schneider-Kreuznach of Germany, for seven years and technical director for 17 years. Prior to Schneider, he was the optical engineering manager at Loral Fairchild Systems, formerly known as Fairchild Reconnaissance and Surveillance Systems, for 14 years. He served for two years as the senior technical director for Ruda Cardinal Inc., a leader in the design and building of the most complex and intricate optical designs, located in Tucson, Ariz.

Singer is a senior member of SPIE, the international society for optics and photonics. He has published numerous technical papers for Schneider and various other publications and has been a frequent lecturer in the field of optics. He was also a recipient of the National Emmy Award in 2012 for his contributions to the development of an IRND filter for digital motion picture cameras.

### About the sponsors:

With over 40 years of experience in optics, [Optikos](#) provides hands-on engineering expertise with the nimble mindset of a tech startup. Solving optical problems for their clients—whether they need full engineering design and manufacturing, image quality assurance in their product development process, or anything in between—is what gets the Optikos team excited every day. They have the right combination of people, products, and services to help.

[Navitar, Inc.](#) designs, develops, and manufactures innovative optical solutions for clients and enterprises across the globe. Solutions include complete optomechanical and optoelectronic assembly and subassembly systems. Navitar components and systems are used in a wide variety of industries including life science, medical, defense and security, industrial, entertainment, and projection. Applications include machine vision, electronics, semiconductor process, metrology, UV lithography, noncontact measurement, IR imaging, simulation, planetarium, amusement, laser projection, autonomous vehicles, surveillance, cinematography, mobile imaging and mobile medical.

## .: Mark Your Calendar

**Date: Tuesday, March 21, 2023**

**Time: 1:00 PM - 2:00 PM EDT**

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