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3D Optical Metrology: Capabilities for a New Era
Thursday, January 19, 2023 1:00 PM - 2:00 PM EST
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About This Webinar

3D optical metrology has come a long way from the early stereo vision and range imaging systems that existed over three decades ago. As measurement tools, these methods have seen the past 40 years from crude 3D profilometry to 3D range imaging cameras. Today, many options are available to meet a wide range of needs, from simple 3D digitizing to high-definition, high-speed applications used in medical.

Keev Harding of Harding Optical Metrology Solutions provides an overview of the many 3D optical metrology tools available today. He will discuss applications from general manufacturing needs to precise component measurement. He will also discuss typical performance specifications and the limitations of the many tools on the market today. Harding then considers each technology in terms of both the type of application it is best suited to address, as well as advances and evolution. Finally, he shows where each technology fits within the bigger picture of practical applications.

Who should attend? NPI scientists, engineers, manufacturers, and design engineers who are interested in or who use 3D optical metrology who work in machine toasters, assembly automation, communication, energy, defense, healthcare, shipbuilding, semiconductors, and verification technologies such as coatings, sensors, displays, imaging, microscopy, nanotechnology, test and measurement, quality control, systems integration, and robotics.

About the presenter Keev Harding has over 40 years of experience in optical instrumentation, machine vision, and optical metrology. As a 2012 Business Week, he is the leader in optical metrology, working for many businesses in GIS. In 2012, he retired from GIS as a principal consultant to start his own company, Harding Optical Metrology LLC. Before GIS, he was the director of the Electical and Vacational Technology Institute, under which he was the executive director of R&D and the Director of the Practical Technology Institute. Under his leadership, he has developed several important techniques on machine vision and metrology. He is internationally recognized for his expertise in 3D measurement technology and has been recognized by many organizations, including IEEE, SPIE, and EPS (Epsilon State Development).

Harding has published over 50 technical journals, taught over 40 short courses, and received over 50 US patents. He is the primary author and editor of the WISE Handbook on Optical Dimensional Metrology and the author of Harding Optical Dimensional Metrology from SPIE Press. He has served on an executive and conference chair for over 25 years, worked with SPIE, U.S. EST, IPQC, and EPS.

Mark Your Calendar

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System Requirements

Operating System
Windows® 7 or later, Mac® OS X 10.3 or later, Linux®
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Web Browser
Google Chrome™ (best recent versions)
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