

What is an optical cable ruler



Overview

Recently, a new approach has been used to measure nanometric displacements using a so-called optical ruler. ² The optical ruler is an electromagnetic analog of a traditional, physical ruler but the key difference is an optical ruler is capable of making measurements at the nanoscale. Using easy-to-use tools that could rapidly profile the dimensions of nanoscale objects, such as nanoparticles, would be useful for materials synthesis and manufacture. The one common type of question we receive concerns measurement "accuracy," but. Scientists at Nanyang Technological University, Singapore (NTU Singapore) have developed a new way to measure distances at the nanoscale—one nanometer being one billionth of a meter—using light. To deliver light to hard-to-reach places, fiber probes are widely used. Devices that use light to see objects, such as microscopes, have a fundamental limitation based on the. In the last few decades, Förster resonance energy transfer (FRET) based spectroscopy rulers have served as a key tool for the understanding of chemical and biochemical processes, even at the single molecule level.



Article Content

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[Scientists develop optical ruler that can measure down to the nanoscale](#)

The smallest distance that optical devices can reliably image is equal to half the wavelength of the light used, known as the

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[Fiber Optic Terminology, Acronyms, and Definitions](#)

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Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables,

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Fiber optic cable can seem safe; it doesn't carry an electrical charge, and it's not a heat source. More often it's a lack

[Optical Ruler Series | V3](#)

Learn more about the featured optics of this ruler below. The grating - prism array - grating optic demonstrates some of the

[Taking Measurements at the Nanoscale with Optical Rulers](#)

The optical ruler is an electromagnetic analog of a traditional, physical ruler but the key difference is an optical ruler is

[Scientists develop optical ruler that can measure down to the nanoscale](#)

From the phase, it is possible to calculate the superoscillation's gradient, or "local wavevector," which has an extremely narrow width

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