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This paper describes the characteristics of a high resolution infrared (IR) imaging system operating over the wavelength range of 830–1100 nm, based on a modified 8 Mpixels commercial digital camera, with which nonspecialists can obtain IR reflectograms of works of art in situ in a museum environment. The relevant imaging properties of sensitivity, resolution, noise, and contrast are ...

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Invited Article: High resolution digital camera for infrared reflectography Charles M. Falcoa College of Optical Sciences, University of Arizona, Tucson, Arizona 85721, USA Received 9 April 2009; accepted 14 June 2009; published online 15 July 2009 This paper describes the characteristics of a high resolution infrared IR imaging system operating

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Invited Article: High resolution digital camera for infrared reflectography Article (PDF Available) in The Review of scientific instruments 80(7):071301 · August 2009 with 264 Reads

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We developed a table-top vacuum ultraviolet (VUV) laser with 113.778 nm wavelength (10.897 eV) and demonstrated its viability as a photon source for high resolution angle-resolved photoemission spectroscopy (ARPES).

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Here, we outline and validate a new tool termed 'Digital Deletion Detection' (3D) that allows for high-resolution analysis of rare deletions occurring at frequencies as low as 1×10^{-8} . 3D is a three-step process that includes targeted enrichment for deletion-bearing molecules, single-molecule partitioning of genomes into thousands of droplets for direct quantification via droplet ...

Targeted enrichment and high-resolution digital profiling ...

Unprecedented spatial resolution for the area covered was obtained through a novel experimental technique based on digital image correlation (DIC). These high resolution strain measurements were linked to electron backscatter diffraction (EBSD) measurements of grain structure (both grain shape and orientation).

High resolution digital image correlation measurements of ...

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High resolution measurement of replication time in yeast. To accurately determine replication timing in S phase cells, the resolution of detecting copy number variation should be sufficiently high to be able to distinguish between multiple values on the continuous scale between one and two.

Rapid high-resolution measurement of DNA replication ...

The exhibition puts on display an extremely high-resolution digital replica of Jan Gossaert's Adoration of the Kings. ALAMY. ... With Sensing the Unseen you are invited to enter its virtual domain.

Sensing the Unseen review — see Gossaert's Adoration of ...

We demonstrate a novel computational method for high resolution image recovery from a single digital hologram frame. The complex object field is obtained from the recorded hologram by solving a constrained optimization problem. This approach which is unlike the physical hologram replay process is shown to provide high quality image recovery even when the dc and the cross terms in the hologram ...

OSA | Single shot high resolution digital holography

We developed a table-top vacuum ultraviolet (VUV) laser with 113.778 nm wavelength (10.897 eV) and demonstrated its viability as a photon source for high resolution angle-resolved photoemission spectroscopy (ARPES). This sub-nanosecond pulsed VUV laser operates at a repetition rate of 10 MHz, provides a flux of 2×10^{12} photons/s, and enables photoemission with energy and momentum ...

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Ultra high resolution display panels are one of the technical trends for future display and essential for the realization of digital hologram. Two approaches for the development toward 1 μ m pixel pitch are introduced. SLM panel with 3 μ m pixel pitch based on reflected TFT-LCD was fabricated.

8.3: Invited Paper: Ultra High Resolution Display for ...

Natural disasters disproportionately impact the poorest countries; low-income countries have accounted for 48% of disaster fatalities, but only 9% of disaster events since 1980 (Munich Re, 2012). These impacts are generally expected to worsen as the climate changes and sea levels rise. Fortunately, we have the technology today that enables us to determine the likely deaths, damages, and losses ...

Frontiers | An urgent case for higher resolution digital ...

@article{osti_22482805, title = {Invited Article: High resolution angle resolved photoemission with tabletop 11 eV laser}, author = {He, Yu and Vishik, Inna M. and Yi, Ming and Yang, Shulong and Lee, James J. and Chen, Sudi and Rebec, Slavko N. and Leuenberger, Dominik and Shen, Zhi-Xun and Department of Applied Physics, Stanford University, Stanford, California 94305 and Liu, Zhongkai and ...

Invited Article: High resolution angle resolved ...

The phone will feature a 16MP dual-camera setup, and a high-resolution mode that captures 80MP images. 371 The Hasselblad H6D-400c multi-shot captures insane 400MP images

Articles tagged "high-resolution": Digital Photography Review

Hone-Jay Chu, Yi-Chin Chen, Muhammad Ali, Bernhard Höfle, Multi-Parameter Relief Map from High-Resolution DEMs: A Case Study of Mudstone Badland, International Journal of Environmental Research and Public Health, 10.3390/ijerph16071109, 16, 7, (1109), (2019).

Very high-resolution digital elevation models: are multi ...

A 218 mega-pixel synthetic aperture was collected by raster scanning a CCD detector in a digital holography imaging experiment. Frames were mosaicked together using a two-step cross-correlation registration. Phase correction using sharpness metrics were utilized to achieve diffraction-limited resolution.

OSA | High-resolution synthetic-aperture digital ...

Invited Article: A rigid coherent anti-Stokes Raman scattering endoscope with high resolution and a

large field of view P. Zirak,¹ aG. Matz,² B. Messerschmidt,² T. Meyer,^{3,4} M. Schmitt,⁴ ... tial resolution of 750 nm over a field of view of roughly 250 m. Omission of the

Invited Article: A rigid coherent anti-Stokes Raman ...

New Yorker Electronics has released two new high resolution automotive grade digital proximity sensors with I2C interface from Vishay with high resolution up to 20 μm for force sensing applications. The Vishay VCNL3030X01 integrates a proximity sensor and a high power IRED into one small package ...

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