

## *Focal Plane Arrays For Space Telescopes Proceedings Of Spie*







### **Focal Plane Arrays For Space**

The National Institute of Standards and Technology, (NIST), has endorsed a laser beam divergence measurement technique that involves measuring the beam diameter at the ideal focal point of an imaging lens. A number of diameter measurement techniques can be used for focal plane divergence measurements including variable apertures, scanning pinholes, knife edges, and CCD arrays.

### **Tech. Note - Measuring Laser Beam Divergence**

Phased array transmission was originally shown in 1905 by Nobel laureate Karl Ferdinand Braun who demonstrated enhanced transmission of radio waves in one direction. During World War II, Nobel laureate Luis Alvarez used phased array transmission in a rapidly steerable radar system for "ground-controlled approach", a system to aid in the landing of aircraft.

### **Phased array - Wikipedia**

Sensors Unlimited, Inc. produces NIR and SWIR cameras and arrays - all based on InGaAs imaging technology - that see beyond the visible wavelength spectrum.

### **Leading Supplier Of Aero & Defense ... - Sensors Unlimited**

In MIMO communication systems, array gain means a power gain of transmitted signals that is achieved by using multiple-antennas at transmitter and/or receiver, with respect to single-input single-output case. It can be simply called power gain. In a broadside array, the array gain is almost exactly proportional to the length of the array. This is the case provided that the elements of the ...

### **Array gain - Wikipedia**

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### **ARC Nano**

archimedes Archimedes in ancient Syracuse, Sicily It's been reported Archimedes destroyed ships in the harbor with a death ray, or heat ray. While "technically" feasible the practicality of such a weapon is doubtful.

### **Red Rock Energy Heliostats - redrok.com**

Earth Imaging Journal is a bimonthly magazine covering a range of earth observation and geospatial technologies and applications.

### **Earth Imaging Journal: Remote Sensing, Satellite Images ...**

Einzel example¶. Now, lets look at our first example, the Einzel lens. All the initial steps of creating the potential arrays, refining the arrays, and setting up the workbench have been done for you, so all you need to do is load it up and view it.

### **A Tour of the SIMION Demo — SIMION 8.1 Supplemental ...**

The Molecular Expressions website features hundreds of photomicrographs (photographs through the microscope) of everything from superconductors, gemstones, and high-tech materials to ice cream and beer.

### **Molecular Expressions: Images from the Microscope**

As this table shows, luminance adaptation affects three fundamental dimensions of our color experience: (1) the perceived amount of contrast between white and black, (2) the perceived amount of hue purity or intensity of colors (amount of contrast between an intense color and a matching gray), and (3) the amount of detail perceptible in objects, images, textiles, textures and text.

### **color harmony & color design - handprint**

The Motion Imagery Standards Board (MISB) was established in accordance with DoD Directive

5105.60 "to formulate, review, and recommend standards for Motion Imagery, associated Metadata, Audio, and other related systems" for the Department of Defense (DoD), Intelligence Community (IC), and National System for Geospatial-Intelligence (NSG).

**MISB: Motion Imagery Standards Board**

The Zwicky Transient Facility (ZTF) is a new optical time-domain survey that uses the Palomar 48 inch Schmidt telescope. A custom-built wide-field camera provides a 47 deg 2 field of view and 8 s readout time, yielding more than an order of magnitude improvement in survey speed relative to its predecessor survey, the Palomar Transient Factory. We describe the design and implementation of the ...

**Publications of the Astronomical Society of the Pacific ...**

While video cameras are traditionally used for traffic video analysis, they need additional algorithms to overcome their inherent vulnerability to low light conditions, too much light, and shadows that can hide vehicles or pedestrians. Thermal sensors do not have any these issues.

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