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# X-Ray Camera Solutions



# Imaging

## Tech Pulse

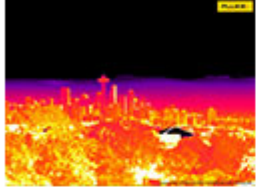
PHOTONICS MEDIA

THE PULSE OF THE INDUSTRY




Wednesday, May 20, 2015

### Consumers and Cost Are Driving Infrared Imagers into New Markets



Once the exclusive domain of the military, infrared imagers are now taking commercial applications by storm, thanks to lower prices and better technology. In fact, it seems the only limit to this flourishing technology is our imagination.

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### Smartphone Microscope Counts Parasites in Blood

A research team led by engineers at the University of California, Berkeley, has developed a new mobile phone microscope capable of analyzing blood. Its primary purpose is to automatically detect and quantify bodily infection caused by parasitic worms.

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### Sharper 3-D Laser Scanner Impervious to Ambient Light

Refining principles of 3-D sensing for video games, researchers at Northwestern University have developed a 3-D laser scanner that produces detailed moving images even in the presence of bright ambient light.

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### High Performance SWIR Imaging Cameras

Silicon based area detectors (e.g. CCDs or CMOS) are widely used in high performance imaging applications, detecting wavelengths from soft x-ray through to near infrared (NIR). Typically the quantum efficiency (QE) of these detectors decreases rapidly as the detection wavelength increases further into the NIR region.

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### Algorithm Makes Video Panoramas from Unstructured Camera Arrays



Even nonprofessionals may someday be able to create high-quality video panoramas using multiple cameras with the help of a new algorithm.

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### Camera Powered by the Light It Captures

Absorbing solar energy one moment and capturing images the next, a prototype video camera is said to be the first that is entirely self-powered.

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### Modified Streak Camera Captures 100B Frames Per Second

A modified streak camera is fast enough to capture the movement of a single laser pulse in real time.

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### 'World's Largest Camera' Secures Key DOE Approval

The U.S. Department of Energy has granted intermediate approval for construction of a 3.2-gigapixel CCD camera to be integrated into the Large Synoptic Survey Telescope (LSST).

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