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# Imaging

## Tech Pulse

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Monday, November 24, 2014

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### Image Correlation Helps Optimize Laser-Based 3-D Printing



Digital image correlation (DIC) could help prevent warping of metal parts made via laser-based additive manufacturing.

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### Phosphorescent Bandage Helps Wound Assessment

Near-infrared imaging of a "smart" bandage can indicate oxygen concentration in severely damaged tissue, potentially increasing the success rate of surgeries to restore limbs and physical functions.

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### The Importance of Cooling for VIS-SWIR Applications

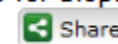
Being able to cool an InGaAs sensor minimises the build-up of dark current allowing for longer exposures and crucial for applications with very weak signals. But not all InGaAs sensors are the same and some require much deeper cooling to provide similar levels of dark current. This white paper discusses why both sensor choice and cooling make a difference in choosing a VIS-SWIR camera.

[DOWNLOAD WHITE PAPER >>](#)

### Grant Award Furthers Study of SWIR Light for Detecting Cancer

The National Institute of Biomedical Imaging and Bioengineering, part of the National Institutes of Health, recently awarded a Rutgers University research team \$2.2 million to explore a new medical imaging method that would reduce the need for biopsies.

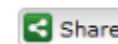
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### Photoacoustics Exposes Arterial Plaques

A new technique called intravascular photoacoustic imaging takes precise 3-D images and reveals the presence of carbon-hydrogen bonds making up lipid molecules in arterial plaques that cause heart disease.

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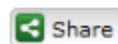


### Video Captures Laser Pulses at '1 Billion FPS'



A camera trick allows the creation of a movie of a laser pulse moving slowly down a long hallway.

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