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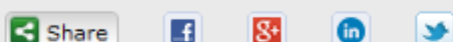
Wednesday, November 25, 2015

Pushing Sensitivity to the Brink: Selecting the Right Imaging Technology for Your Application



With the appropriate camera, imaging systems are capable of producing dramatically high-resolution images at fast speeds. However, choosing such a device may prove to be a challenge for both inexperienced and trained system users. Knowledge of the most common sensor technologies and camera housing properties will give users a better understanding of which camera parameters can increase a system's output.

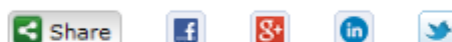
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Fluorescence Microscopy Probes Spinal Neuron Connections

Using two-photon fluorescence microscopy, researchers have gained new insight into how the spinal cord mediates commands from the brain to get the body moving. The findings could help identify ways to repair damaged neural connections in patients with spinal cord injuries or neurodegenerative diseases like amyotrophic lateral sclerosis (ALS), also known as Lou Gehrig's disease.

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Color-Changing Substance Detects Biological, Mechanical Problems



Responsive to a range of stimuli, a color-changing metallic substance could help detect problems as varied as mechanical strain and pollution. The material can be engineered to emit specific colors — even pure white — under different circumstances.

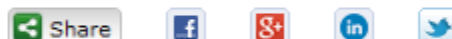
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IR Thermography May Help Diagnose Joint Inflammation

Noninvasive, low-cost IR thermography may be effective for imaging joint inflammation and also shows promise for assessing ergonomic problems caused by office work. A study at the University of Eastern Finland evaluated the capability of IR thermography to detect inflammation in the knee and ankle joints of 58 children suffering from conditions such as juvenile idiopathic arthritis or autoimmune disease with arthritis, such as systemic lupus erythematosus.

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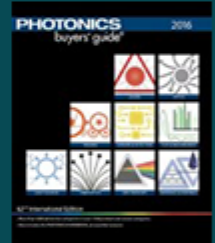


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