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Highlights from the October 2012 issue of Photonics Spectra

Robots Work Better with Vision Enhancements



Machine vision trends in use on (or coming soon to) the factory floor include 3-D and better resolution. Industrial robots with mere vision can't keep up anymore - now they have to image in greater detail and in 3-D. Where these trends are headed can be seen in the latest research into autonomous vision-based docking. Robots equipped with this technology could have full-color 3-D vision accurate on a scale of thousandths of an inch, making it possible to recognize and verify parts and components on the fly.

[FULL ARTICLE >>](#)

Different Lasers Offer Different Features for Micromachining

The increasing complexity of electronic, medical and engineering devices presents manufacturers with many challenges that must be overcome if they are to remain competitive in today's marketplace. Very small, intricate and often high-value parts must be mass-produced to exacting standards at relatively low cost.

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Color Cameras Improve Results in Vision Applications

Color has been considered expensive in terms of money and processing power, but these costs have decreased. Here's how color vision works and why it can be beneficial for today's applications.

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Choosing the Right Epoxy for Optical Applications

Technology in the optics industry has steadily advanced over the past several years, which can make the process of selecting an adhesive very complex, considering the number of factors now involved.

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Laser-Produced Plasma Source Improvements Drive EUVL Adoption

Extreme-ultraviolet (EUV) lithography will be ready for introduction into high-volume manufacturing within the next few years. Pilot lithography tools have been delivered to chipmaker fabs and are being used for process development; next-generation systems have been designed based on learning from these pilot systems in the field and are being fabricated.

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Scanning Goniophotometers Improve Materials Selection

Measurement of a material's specific scattering properties takes the guesswork out of choosing materials for various applications. Here we will look at an overview and some examples of applied measurements of angular-dependent light scattering in the visible and IR ranges.

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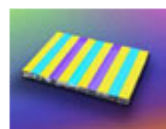
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