

New Scale News

January 2013

Greetings!

Join us in San Francisco next month for Photonics West! See our latest M3 micro-mechatronics modules for high-resolution focus and positioning in miniature optical instruments, lasers and photonics systems, aerospace controls, biomedical devices and more.

Product demos will include the new custom M3 focus module for a ground-breaking gigapixel camera - see below. And then see us in San Francisco!

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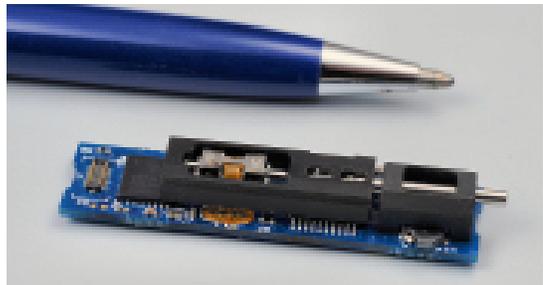
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~ Next-gen gigapixel cameras get focus from New Scale

New Scale Technologies' M3 focus modules have been designed into the next-generation AWARE cameras, the ground-breaking gigapixel cameras developed at Duke University and featured in the journal *Nature* earlier this year.

New Scale's tiny piezoelectric motion modules further improve the image quality by providing automated micrometer-scale lens adjustments in each of the hundreds of sub-cameras that make up an AWARE camera system.

Independent focus adjustment of each micro-camera allows every area in a very wide field of view to be brought into sharp focus simultaneously, for amazingly detailed panoramic images.



Custom M3 module - small, thin, precise and smart - adds precision focus to a new gigapixel camera



From the gigapixel AWARE camera - wide field images with incredible detail.
(Click to view the larger image at the DARPA website)

- [Learn more about New Scale's custom M3 modules and the AWARE camera](#)

~ Meet us at Photonics West

February 5-7, 2013

Moscone Center
San Francisco, California, USA
Booth #4212, North Hall



With more than 19,000 attendees, 1,200 exhibiting companies, 4,200 papers and 85 courses - SPIE Photonics West is the essential photonics and laser exhibition.

We'll have our latest motion modules in action in Booth #4212. You can also catch a product demonstration Tuesday at 12:30 p.m in the North Hall demo area 2.

Let us know if you'd like to schedule a private demo at the show - attendance to the exhibit hall is free. Or, let us know if you aren't planning to attend but want to meet us another time. Call Doug Camp at (585) 924-4450 x120 or email dcamp@newscaletech.com.

- [Visit the SPIE website for conference information and registration](#)
- [View the exhibit floor map](#)

~ Webcast:

Mechatronics Opens Previously Locked Doors in Medical Apps

Moderated by Rob Spiegel, Senior Editor, *Design News*

Presenters:

David Henderson, founder and CEO/CTO of New Scale Technologies
Kamran Khan, technical marketing engineer at Xillinx



The inclusion of mechatronics into medical applications appears to be a no-brainer. In fact, it's already occurring in two key areas: the devices that are used to treat and operate on people, and the devices that are used in and on patients. In this webinar, we look at how mechatronics is drastically changing the face of medical devices, from the motors themselves to the smarts that drive those motors. The motors being used have come a long way in a very short period of time. They are smaller, lighter, more precise, and so on. The electronics that drive those motors have similarly advanced at a pace that continues to marvel.

Hear where this amazing technology will take us, and how it will affect your design.

- [View the *Design News* webcast](#) (45 minutes)
- or [email us](#) for a copy of the presentation slides

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[Send email](#) to NSTsales@newscaletech.com
[Visit our website](#) at www.newscaletech.com
Call us at +1 (585) 924-4450

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