

NEWSRELEASE

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For Immediate Release

Toshiba Imaging's 3CCD IK-TF7 Camera Integrated into Phoenix Research Labs' Retinal Imaging Microscopy System

- Highly sensitive, 3-chip color camera captures imagery from the retinas of mice and rats, enabling in-vivo, microscopy eye research

March 12, 2010 – Irvine, CA – Toshiba Imaging Systems Division

(www.cameras.toshiba.com), the global leader in 3CCD industrial and scientific cameras and high definition (HD) camera technology, announces the high-sensitivity IK-TF7 3CCD camera has been integrated into the new Micron III retinal imaging microscope, developed by Phoenix Research Labs (www.phoenixreslabs.com). The third-generation system is an advanced retinal microscope for mice and rats that is enabling new modalities in high resolution imaging for in-vivo eye research. Testing and diagnostic research includes white light imaging mice and rats, fluorescein angiography, diabetic retinopathy, retinoblastoma, choroidal neovascularization, retinitis pigmentosa, and anterior segment slit-lamp. Live animal fluorescent studies such as green fluorescent protein (GFP) and yellow fluorescent protein (YFP) are also made possible with the advanced Micron III system.



The Toshiba IK-TF7 3-chip, progressive-scan color camera is integrated into the Micron III. Features include high resolution (1024 x 768 pixels), small pixel size (4.65 x 4.65 microns) and a color reproduction that is enhanced with a unique color-shading feature, make this camera especially useful in retinal microscopy imaging. The camera design utilizes Toshiba's proprietary prism block color technology which permits the accurate capture of fast-moving color items under test, such as the retinal movement in rats and mice. The compact camera can image up to 90 frames per second; it eliminates image jitter through the incorporation of three 1/3-inch progressive scan CCDs. The co-site sampling arrangement of the CCD sensors also eliminates RGB shift, making image capture more accurate with this progressive scan camera. Other features, such as partial scanning capability, a field removable/replaceable infrared (IR) filter, the on-screen and RS-232C setup, asynchronous reset, long-term integration, and shutter speeds from 1/100 to 1/100,000 seconds, make this imager ideal for retinal research, scientific experiments, and other machine vision applications.

For more information about Toshiba Imaging's industrial cameras for scientific, military, commercial, machine vision and specialty broadcast applications, please visit:

www.cameras.toshiba.com.

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Toshiba Imaging Systems Division (Irvine, CA) is the premier supplier of high quality video cameras for machine vision, R&D and scientific applications. Advanced video imaging technology and high resolution cameras such as Toshiba's 3CCD color cameras and their remote head camera family has earned Toshiba America's Imaging Systems Division the distinctive reputation for offering the most advanced imaging solutions to the industrial and scientific communities. Visit www.cameras.toshiba.com for more information.