GLONIK TO RELEASE THE TRUE 3D OPTICAL MICROSCOPE EQUIPPED WITH MOVING OBJECTIVE LENS

SEOUL, SOUTH KOREA, December 2, 2014 /EINPresswire.com/ -- A remarkable evolution has been observed in the microscope's performance and diversity since the invention of the optical microscope in the 17th century while its structure not being greatly improved to allow people to see objects as they are in a 3D shape. More specifically, this refers to the fact that the relative position and angle between the objective lens and the eyepiece are fixed. Considering that most objects being observed have a 3D structure and what we see through the microscope is the 2D projection of the 3D object, it is definitely desirable to fill this gap.

Various attempts have been made to overcome these restrictions, such as tilt stages, tilting/rotating adapters, custom made jigs, digital microscopes, specially designed optical elements, and so on, but most are only partially satisfactory and have limited applications.

Based on its patented technology, GLONIK (www.glonik.com), a Korea-based innovative company, has introduced an advanced 3D optical microscope which forms an image at a fixed position while the objective lens moves around the target object being observed. The objective lens is designed to move along the polar and azimuthal directions in the spherical coordinate system. Thus, people can control each angle independently so that they can see the object at any angle within a predetermined solid angle range.

GLONIK's 3D optical microscope enables people to see as they like to see what they want, not just a vertical projection image of 3D objects.

"You can use our 3D optical microscope just as any other conventional optical microscope. There are many fields where our 3D microscope can be beneficial, in fact, any field in which conventional low-magnification microscopes are used: industry, biomedical, R&D, education, and so on. Our microscope can be applied to cases where the objects cannot be moved or are difficult to handle, that is, the objects to be obliquely observed are heavy, human (or animal), small and fragile, or even gel or

liquid. It is especially useful when you need to manipulate the objects while you are observing as the microscope provides a good environment for hand-eye coordination. With movable digital microscopes, you may feel uncomfortable and have difficulty in manipulating objects because you have to see the monitor, that is, the eye and hand movement do not coincide. You can get the right 3D perception in any application through our 3D optical microscope. It is truly optical not digital," said Dr. Kim, Woo Jun, president of GLONIK.

GLONIK's 3D optical microscope will be showcased in OEM Company's booth#722 at 2014 MRS Fall Meeting & Exhibit, November 30 - December 5, 2014 in Boston, Massachusetts, USA.
For more information, please visit www.glonik.com, or send e-mail to wjkim@glonik.com

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