



CONTACT: Mike Shahpurwala
mike@aventools.com
734.973.0099

Near Infrared Mighty Scope Reveals Details for Specialized Tasks

ANN ARBOR, MI – May 20, 2010 – Detail-enhancing light from six near infrared LED lamps makes the latest Mighty Scope model a versatile analytic tool in laboratories, law enforcement, forensics, art restoration and other fields.

Longer wavelengths of the near infrared (NIR) spectrum let users of the hand-held microscope from Aven, Inc. see and capture color differences or fine points that aren't visible in white light. This has practical applications for biomedical tissue analysis, chemical component differentiation, forgery detection, document examination and appraisals.

"There's no risk of damaging heat from the NIR Mighty Scope because it focuses cool light, unlike the thermal infrared wavelengths," says Mike Shahpurwala, president of the Michigan-based distributor of optical instruments. "It also reduces glare, an advantage for looking at reflective surfaces."

Near infrared is just beyond visible red light wavelengths. It allows precise contrast analysis by examiners of specimens, documents, currency, crime scenes, artwork, jewelry and antiques. Users can adjust magnification from 10 times to 200 times. As the NIR Mighty Scope reveals layers of ink, handwriting or coatings, experts can spot alterations and mismatched materials. In lab settings, the superior light transmittance enhances chemical component identification, burned document reconstruction and studies of near-opaque items such as insect exoskeletons.

Aside from its NIR bulbs, the new Mighty Scope has the same precision controls and other features as earlier models with white or ultraviolet light:

- Brightness control wheel allows fingertip illumination adjustment.
- Microsoft-compatible software (included) supports capture of still images, interval shots or video.
- Active pixel sensor technology provides sharp images from a 1.3-megapixel camera with a color CMOS sensor.
- Auto exposure, automatic white balance and auto gain control assure optimum image clarity.
- USB port lets magnified images be viewed instantly on a VGA monitor or a higher-resolution SXGA monitor.
- Ergonomic design allows comfortable use with either hand.
- Microtouch shutter button eliminates the need to tap a computer key.

"We're gratified to extend the Mighty Scope line with this NIR model," says Aven's president.

For more information or to receive a catalog, call Aven at (734) 973-0099. A digital catalogue is at www.aveninc.com.

-

Aven, Inc. manufactures and distributes high-performance precision tools and optical systems for industrial, scientific, research and education applications. More than 750 products include video inspection systems, integrated portable microscopes, video borescopes, task lights, stainless steel tools for lab use and precision hand tools such as tweezers, pliers, cutters, screwdrivers, crimpers, knives and alignment tools. Brands include Mighty Scope, iLoupe, iVue, Accu-Cut and Athlet.

An electronics innovator since 1983, Aven is located in a high-tech corridor of Southeast Michigan and is the parent company of SharpVue, which designs and manufactures integrated digital microscope technology.

#