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Bandpass Filters and Bionic Butterflies
MidOpt Near-IR Bandpass Filters aid in autonomous flying with indoor GPS

Palatine, Ill. (August 9, 2016) – Festo, a worldwide leader in automation (pneumatic and electrical control), technical training and development, has successfully implemented the first ever eMotionButterflies which show how several autonomous flying objects can move independently in an enclosed space without colliding.

With the use of MidOpt BN850 Near-IR Bandpass Filters, active markers (850nm IR LEDs) and a 10 infrared camera set-up, Festo has demonstrated how the use of an indoor GPS and infrared cameras could be used as a guidance and monitoring system in factories of the future.

The MidOpt BN850 Filter helps provide reliability and stability by blocking unwanted ambient light while only passing the signal from the 850nm IR LED's to the cameras. Equipped with the BN850, the cameras can accurately transmit the position data to a central master computer, which acts like an air traffic controller and coordinates the butterflies from outside the area.

"Advances in motion analysis such as this demonstrate how optical filters are not only effective in improving Machine Vision applications, but can be useful for non-industrial purposes as well. Machine Vision is no longer confined to the factory and is becoming incorporated in an ever-growing number of newer applications. Our product lines have necessarily grown to address and satisfy these emerging opportunities. We at MidOpt look forward to helping shape the future of vision-guided technologies," stated Barry Warzak, MidOpt President and Owner.

To learn more about the BN850 and the Festo eMotionButterflies Project,
visit Midopt.com/Bandpass-Filters-Bionic-Butterflies/.

About Midwest Optical Systems
Midwest Optical Systems (MidOpt) is a global leader providing stock and custom machine vision filters, lenses, lighting and other precision optical solutions. Represented in over 30 countries and offering over 3,000 standard off-the-shelf products, over 100,000 filters and 50,000 lenses are shipped every year. MidOpt filters are recognized as the industry standard for automated imaging applications to ensure reliable control, repeatable results and superior image quality. All filters are produced to demanding standards regarding durability and spectral, optical and cosmetic characteristics. Unlike traditional filters, MidOpt filters closely emulate the output of all common LED/lighting types and colors. Designs are available to provide optimal performance regardless the application wavelength, ambient lighting, or lens focal length.

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