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Note to editors: Link to high-res photo and picture caption follow news release text.

Beckhoff Vision Unit Illuminated Series Expands

All-in-one machine vision solution grows with 16 new devices and crossed polarizing filters

SAVAGE, Minnesota, June 24, 2026 – Beckhoff's Vision Unit Illuminated (VUI) is a compact machine vision unit that combines a camera, illumination, and liquid lens focusable optics in one device. The VUI series has been expanded to include 16 new devices. Enhancements include new functionality, advanced image sensors, and crossed polarizing filters.

The VUI is industry-ready and designed for the harsh day-to-day conditions of machine building and manufacturing – compact, robust, and engineered for easy integration into the control system. The extensive portfolio of units now includes 16 additional devices with Sony Pregius S™ image sensors. With resolutions of 5.1, 8.1, and 12.4 MP, they are suitable for a wide range of demanding applications – from fast cycle rates to detailed quality inspection with elevated measurement and detection accuracy.

The devices are also available with crossed polarizing filters. This expands the range of applications, as the easy-to-use unit solves additional vision tasks by suppressing surface reflections from the illumination. In this way, features can be captured with high contrast and without reflections, even when acquiring the image through shiny or transparent surfaces such as glass, plastic, and water.

The VUI is part of the comprehensive and still growing Beckhoff Vision portfolio, which combines high-performance machine vision hardware and software with the powerful automation technology of EtherCAT. Beckhoff Vision improves performance, tightly synchronizes vision with the machine control system, and increases production throughput by operating all systems on one powerful PC-based control platform using industrial PCs and the all-purpose TwinCAT automation software.

www.beckhoff.com/units

www.beckhoff.com/vision

Link to high-res photo:

https://www.beckhoff.com/media/downloads/press/2026/pr162026_beckhoff_us.zip

Press picture:



Picture caption:

By combining a camera, illumination, and liquid lens, the VUI vision series significantly reduces installation and commissioning effort. With 16 new models, the range now offers higher resolutions and additional functionality.

At Beckhoff, automation is our calling. We empower engineers to differentiate and succeed as industry leaders – to harness new technologies, embrace open standards, and solve the world's most complex problems. Founded and led by engineers, we organically create advanced controls, communication,

IoT, and motion technologies that become unique tools for your one-of-a-kind challenges in an age of digital transformation.

As a global partner with U.S. headquarters in Minneapolis, we remain committed to sustainability, inclusivity, and support for the people behind the automation. So, whether you're powering the EV revolution, dazzling on Broadway, launching satellites, or developing fusion energy solutions – you can reach new heights for your business, industry, and humankind.

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