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SWIR Vision Systems to release industry-leading 6 MP SWIR sensors for defense, scientific, automotive, and industrial vision markets

The company's latest innovation, the Acuros® 6, leverages its pioneering CQD® Quantum Dot image sensor technology, further contributing to the availability of very high resolution and broad-band sensors for a diversity of applications.

Durham, North Carolina —SWIR Vision Systems today announced the upcoming release of two new models of short-wavelength infrared (SWIR) image sensors for Defense, Scientific, Automotive, and Industrial Users. The new sensors are capable of capturing images in the visible, the SWIR, and the extended SWIR spectral ranges. These very high resolution SWIR sensors are made possible by the company's patented CQD Quantum Dot sensor technology.

SWIR Vision's new products include both the Acuros®6 and the Acuros®4 CQD SWIR image sensors, featuring 6.3 megapixel and 4.2 megapixel global shutter arrays. Each sensor has a 7-micron pixel-pitch, 12-bit digital output, low read noise, and enhanced quantum efficiency, resulting in excellent sensitivity and SNR performance for a broad array of applications.

The new products employ SWIR Vision's CQD photodiode technology, in which photodiodes are created via the deposition of low-cost films directly on top of silicon readout ICs. This approach enables small pixel sizes, affordable prices, broad spectral response, and industry-leading high-resolution SWIR focal plane arrays.

SWIR Vision is now engaging global camera makers, automotive, industrial, and defense system integrators, who will leverage these breakthrough sensors to tackle challenges in laser inspection and manufacturing, semiconductor inspection, automotive safety, long-range imaging, and defense.

"Our customers challenged us again to deliver more capability to their toughest imaging problems. The Acuros 4 and the Acuros 6 sensors deliver the highest resolution and widest spectral response available today," said Allan Hilton, SWIR Vision's Chief Product Officer. "The industry can expect to see new camera and system solutions based on these latest innovations from our best-in-class CQD sensor engineering group".

About SWIR Vision Systems – SWIR Vision Systems (www.swirvisionsystems.com), a North Carolina-based startup company, has pioneered the development and introduction of high-definition, Colloidal Quantum Dot (CQD®) infrared image sensor technology for infrared cameras, delivering breakthrough sensor capability. Imaging in the short wavelength IR has become critical for key applications within industrial, defense systems, mobile phones, and autonomous vehicle markets. To learn more about our 6MP Sensors, go to <https://www.swirvisionsystems.com/acuros-6-mp-swir-sensor/>.