

Sierra-Olympic Technologies, Inc. announces smallest pixel pitch LWIR on the market

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For immediate release

Hood River, Oregon: Sierra-Olympic Technologies, Inc. is excited to debut the Tenµm 640 uncooled long-wave infrared camera core, featuring an industry-leading 10 micron pixel pitch uncooled VOx microbolometer sensor. As the smallest pixel pitch LWIR on the market, the Tenµm delivers striking detail and sensitivity at 640 x 512 VGA resolution, in a compact and cost-effective package.

Made in the USA by Leonardo DRS, industry pioneers in high-sensitivity microbolometer technology, the series of lens-integrated cameras (no-lens also available) is distributed and supported in North America exclusively by Sierra-Olympic Technologies, Inc.

“The Tenµm is an exciting development for VGA resolution microbolometer sensors,” said Chris Johnston, Sierra-Olympic Technologies, Inc. President. “The bulk of uncooled LWIR technology is in low resolution, as in 60 x 80 or 160 x 180. There are a lot of applications where that resolution works perfectly fine, but Sierra-Olympic has always been focused on the upper limits of sensitivity and resolution; on getting the maximum value and performance out of the latest technology available.”

As a longtime partner and North America’s exclusive distributor for DRS Technologies, Sierra-Olympic Technologies, Inc. has played an active role bringing the Tenµm to market as an evolution of the popular Tamarisk series of 320 and 640 LWIR camera cores.

“Compared to the Tamarisk, the Tenµm is higher resolution, higher performance and lower cost, which is an increasingly-rare combination these days,” said Jeff Leake, Sierra-Olympic VP of Sales. “The imagery and sensitivity these small cameras deliver is exceptional. Being distributed by Sierra-Olympic means the product is supported by a respected team of experts who work directly with customers to ensure successful integration, operation and follow-up support.”

As a value add, Sierra-Olympic is completing development of USB and Gig-E feature boards that will integrate with the Tenµm 640 to make it more universal and easier to use out of the box. When released (expected summer 2021), those camera models will be available worldwide exclusively through Sierra-Olympic Technologies.

Tenµm key specs:

- Sensor: 10 µm 640 x 512 uncooled VOx microbolometer sensor
- Lens models: 7.7 mm (49 x 40 °) / 15 mm (25 x 20 °) / 20 mm (18 x 15 °)
- Sensitivity: <50 mK NETD / <30 mK w/ 3-D noise filter
- Frame Rate: 60 Hz (9 Hz option available)
- Weight: 29 g (no lens)

Inquiries: sales@sierraolympic.com / 541-716-0015