

Emergent Vision Technologies Introduces the Zenith HZ-2000-G 100GigE Camera Featuring Gpixel GSPRINT4502 CMOS Sensor

PORT COQUITLAM, British Columbia — April 26, 2023 — Emergent Vision Technologies, a pioneer in high-speed <u>GigE Vision</u> cameras and vision technologies, introduces a new <u>100GigE camera</u>, the Zenith HZ-2000-G. Through its 100GigE QSFP28 interface, the camera delivers frame rates up to 3642fps.

Available in monochrome and color versions, the 2.5MP area scan camera features a GSPRINT4502 CMOS image sensor with a 4.5 x 4.5µm pixel cell size and 2048 x 1216 resolution. Its ultra-high-speed 100GigE interface has many benefits including low-cost accessories, low CPU overhead, low latency, low jitter, and accurate multicamera synchronization using IEEE 1588. Both GigE Vision and GenICam compliant, the camera allows cable lengths from 1M up to 10KM without costly fiber converters/repeaters.

Create New Opportunities With 100GigE Technology

Based on the <u>Gpixel</u> GSPRINT4502 CMOS image sensor, the new HZ-2000-G 100GigE camera allows end users to reach 3462fps in 8-bit mode and 1782fps in 10-bit mode with 2.5MP resolution. Beyond 100GigE, Emergent also offers 50GigE (Xtreme Series), 25GigE (Bolt Series), and <u>10GigE</u> (HT and HR) area scan camera options.

"With unparalleled speeds come new <u>machine vision</u> and imaging opportunities," said John Illett, president and CTO at Emergent Vision Technologies. "While 10GigE and 25GigE cameras open new doors, 100GigE technologies redefine what high-speed industrial cameras can do."

Emergent Vision Technologies also has its own line of network interface cards (NICs) to help customers get the most out of their ultra-high-speed cameras. The 10GigE, 25GigE, and 100GigE NICs all deliver optimal performance for any video stream with minimal system memory utilization, along with low-latency and low-jitter capabilities. Emergent NICs also feature real-time, front-panel 5V TTL trigger input for added flexibility, along with support for the GigE Vision Streaming Protocol (GVSP), Windows and Linux operating systems, GPUDirect, and camera multiplexing and multicasting with switches.

Emergent Vision Technologies has been shipping 10GigE for more than 10 years, 25GigE for five years, and 100GigE for two years. Avoid the imitators. Engage the innovators.

For more information, visit www.emergentvisiontec.com or contact us here.

About Emergent Vision Technologies

Emergent Vision Technologies was founded in 2007 in Vancouver, Canada. We are the first providers of cameras based on the 10 Gigabit Ethernet (10GigE), 25 Gigabit Ethernet (25GigE), 50 Gigabit Ethernet (50GigE), and 100 Gigabit Ethernet (100GigE) interfaces. Our team comes with vast experience in machine vision and high-speed imaging solutions, from design to engineering, manufacturing, consulting, and technical support. Our high-speed cameras are widely used in the areas of inspection and automation, sports technology, virtual reality, 3D mapping, traffic, and more.