VoxelSensors and OQmented Advance 3D Perception for Spatial Computing

Brussels, Itzehoe, June 18th, 2024 *– VoxelSensors and OQmented, two European deep tech companies, announce the advancement of their commercial partnership to bring groundbreaking 3D perception systems to market for XR, mobile, and other applications.*

The two companies announce this next step in their cooperation. The latest 3D perception system results from the tight integration of VoxelSensors' PERCEPT technology based on Single Photon Active Event Sensor (SPAES) technology and OQmented's UltraLITE XR™ Engine platform.

At AWE USA 2024, VoxelSensors will introduce PERCEPT, a novel approach and systems architecture based on SPAES for augmented reality experiences, and Andromeda 3 evaluation kits in Q4 2024. Andromeda 3 is based on a single SPAES sensor and one illumination configuration, increasing performance and reducing cost over prior configurations.

"VoxelSensors' PERCEPT combines unparalleled eye tracking and world perception, delivering an augmented reality experience that feels like an extension of your own senses," said Andre Miodezky, CGO, CMO, and President. "We believe that Spatial and Empathic Computing is the future of XR and Mobile technology, and we are thrilled for VoxelSensors' PERCEPT to be among the pioneers in this field."

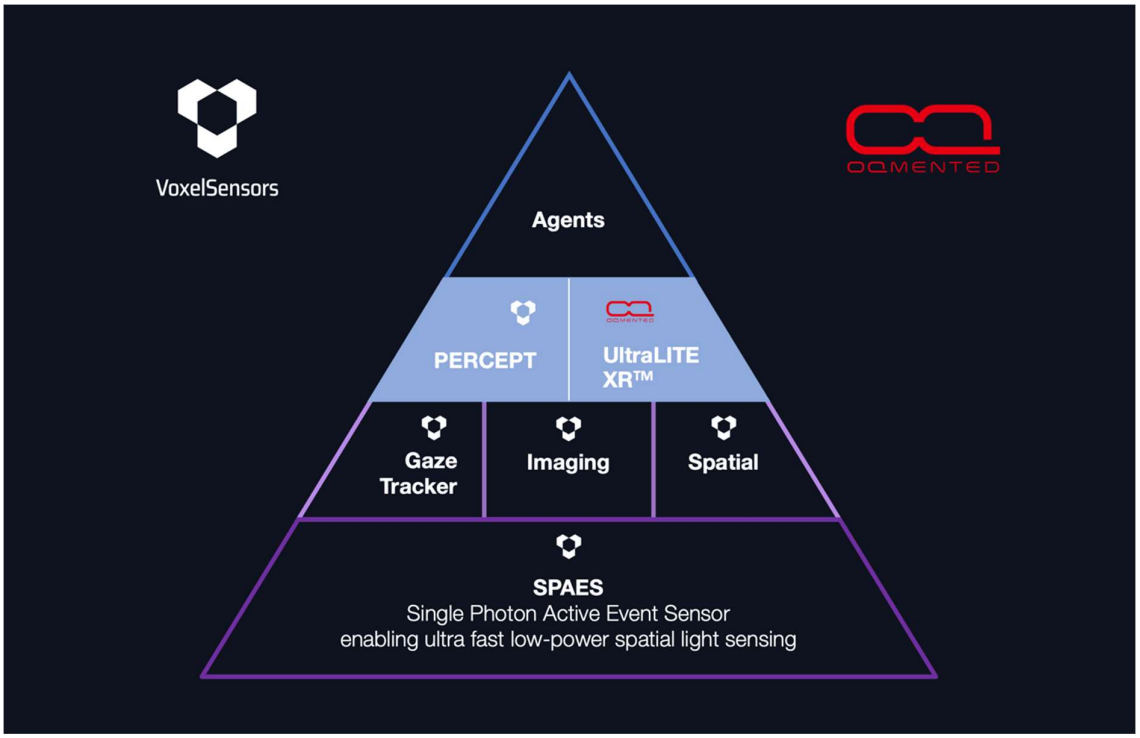
SPAES

VoxelSensors' unique SPAES (Single Photon Active Event Sensor) technology enables low-power and low-latency sensors that operate at the boundaries of physics. They produce 3D data with the absolute minimum amount of energy consumed. The single-photon sensitive sensors localize the tip of the laser beam with high temporal resolution (up to 100 MVoxel/s) and generate ultra-low latency depth data at a rate 100 times faster than any other technology.

UltraLITE XR™ Engine

OQmented's UltraLITE XR™ Engine, based on patented bi-resonant vacuum sealed MEMS technology, is the world's most advanced ultra-low power and compact laser light scanning system. Its unique Lissajous laser beam scanning (LBS) technique, in combination with SPAES sensing, captures complete 3D scenes orders of magnitude faster than frame-based approaches.

"UltraLITE XR™ Engine is also the same core platform underpinning our full color display engines, thus enabling both display and 3D depth, two essential elements of visually immersive Spatial Computing," said Carl Korobkin, SVP of Business Development. "This dual capability potentially further reduces overall size, power consumption, and costs through a reduction in components and supply chain economies of scale."



About OQmented

OQmented develops groundbreaking laser beam scanning (LBS) light engines for XR, mobile and other applications. The company offers complete solutions, including in-house developed ASICs, highly customized and optimized to work with OQmented-developed MEMS mirrors. The unique Lissajous scan pattern in combination with vacuum encapsulation technology and proprietary electronics, algorithms and software, enables exceptional size-to-power density and image resolution, low latency and extended depth of field. OQmented's flagship UltraLITE XR™ Engine is a uniquely scalable solution, capable of powering the displays and sensing of all-day lightweight and stylish AR glasses, on up to the largest 3D cinemas.

For Press Information contact:

Judith Woehl – Public Relations Manager
Email: media@oqmented.com
Website: https://www.oqmented.com/
LinkedIn: https://www.linkedin.com/company/oqmented-gmbh

About VoxelSensors

VoxelSensors develops groundbreaking sensing technology for Spatial and Empathic interfaces and Mobile, XR, and industrial applications. Based on VoxelSensors' Single Photon Active Event Sensor (SPAES), VoxelSensors' PERCEPT technology combines

unparalleled low-power, low-latency eye tracking and spatial awareness capabilities. VoxelSensors' PERCEPT enhances wearables and mobile devices with empathic abilities to understand user attention and intent, delivering an augmented reality experience that feels natural to us.

By transcending the experience barrier with unprecedented levels of immersion and interaction, VoxelSensors is set to unlock the full potential of immersive and autonomous experiences and AI assistants. VoxelSensors' PERCEPT enables devices to become more intuitive, responsive, and empathic, fundamentally transforming user experiences in smartphones, wearables, and industrial applications.

For Press Information contact:

Karina Kovalenko – Marketing and Communications Manager
Email: press@voxelsensors.com
Website: https://voxelsensors.com/
LinkedIn: https://www.linkedin.com/company/voxelsensors