

Sixdof Space Completes Ultra-High-Speed 6DOF Positional Tracking Solution

Sixdof Space has created a high-performance, inside-out embeddable technology using standard room lighting as reference beacons

March 7, 2018 Jerusalem — Sixdof Space (www.sixdof.space) today confirmed real-world tracking of full 6DOF using their patent-pending solution. The combined optics, electronics and algorithm design uses room lights to allow an object to determine its position at speeds and accuracy not possible in any comparable product. Providing absolute optical tracking with camera speeds of up to 1000 frames per second, end-to-end latency below 2mSec, and running on low-cost processors without any GPU or dedicated processing hardware, the solution will allow high-quality 6DOF tracking to be integrated into any SLAM-based tracking environment.

The company is currently targeting the VR/AR headset market, which has an urgent, unmet need for high-speed accurate 6DOF readings to prevent nausea and create realism; the product is also suitable for other markets that require a high-speed, low-power and low-cost solution. Likely uses include precise nighttime automotive navigation, indoor drone tracking and security-related applications.

Sixdof Space expects to produce a development board ready for select OEM testing during the second quarter of 2018, and to be selling commercially in early 2019.

According to Daniel Greenspan, CTO of Sixdof, “VR and AR manufacturers are working furiously to drive adoption, but headset sales have been slow for good reason. If you feel queasy when you use the product, or sense that the experience is ‘interesting’ but not sufficiently real, you will not invest in the hardware, you will not talk about it with friends, and the sector will stay lethargic. We are essentially providing the missing piece that no one else – in-house teams at these companies or third parties – has been able to achieve.”

Mark Goldfarb, CEO of Sixdof, added, “We know from industry analysts and the manufacturers themselves that our technology is going to jump-start the AR/VR sectors. However, we have been equally excited to hear from industry leaders and tech teams in areas like automotive, robotics and drones that there are obvious applications there as well: Leveraging this same technology, we offer accelerated timelines to launch products that simply do the job with uncanny precision. We’re delighted to be exploring these as well.”

About Sixdof

Founded in February 2017 and based in Jerusalem, Six Degrees Space Ltd.’s optical positional technology leverages existing lights to serve as location beacons. Products in development report their accurate position at very high speed, to any host system – be it a VR headset or other mass-market product. The technology combines optical sensors and algorithm code and is designed to be embedded into any manufacturer’s existing hardware. This patent-pending approach yields a product that offers the sought-after combination of low cost, low power, low latency, as well as being installation-free. For more information contact info@sixdof.space.

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