Baraja Spectrum-Scan™ LiDAR technology targets the long-term needs of the autonomous vehicle industry

The updated product demonstrates new performance and reliability standards that speak directly to the long-term needs of the AV industry

SYDNEY – June 24, 2019 – Today, Baraja announces the release of its updated LiDAR system featuring improved performance, reliability and a new product manufacturing quality standard, adhering to ISO 9001:2015 certification.

Launched publicly in July 2018, Baraja's product update comes a few months after a successful Series A investment of $32 million from Sequoia China, Blackbird Ventures, and the CSIRO Innovation Fund managed by Main Sequence Ventures.

One of Baraja's biggest advantages is its immunity to interference which will be discussed at the Sensors Expo & Conference on June 25 & 26 in San Jose, California. Cibby Pulikkaseril, Co-Founder & CTO, and Nick Langdale-Smith, VP Business Development, will be both speaking at the event which is co-located with the Autonomous Vehicle Sensors Conference. Both conferences bring together a range of engineering professionals, from the C-Suite to technical engineers, to discuss the strengths and challenges in the race to autonomy.

Interference Immunity

A pivotal technical challenge for LiDAR is in guaranteeing interference-free operation. The more vehicles on the road with LiDAR, the more chances interference will occur. Existing approaches to LiDAR have not been designed with a LiDAR-everywhere future in mind.

"Other approaches to LiDAR can render sensors 'blind' when facing one another, it is the big secret of the self-driving industry. But for Baraja's unique technology, interference has never been an issue, it was solved from day one" said Cibby Pulikkaseril, Co-Founder & CTO of Baraja.

Most LiDAR operates using a single wavelength of light, akin to choosing a single channel on a two-way radio. This works fine if only one or two people are speaking, but if dozens or hundreds join the conversation, things quickly spiral out of control. Spectrum-Scan™ LiDAR constantly varies the wavelength of light – effectively switching across thousands of channels in succession – resulting in orders of magnitude better rejection of interference. Spectrum-Scan™ goes even further than that, layering additional crosstalk isolation with both angle and time-matching on signals.

For more information, please visit baraja.com.

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About Baraja Pty Ltd

Founded in 2016 and headquartered in Sydney, Baraja began its work on a breakthrough LiDAR technique in the garage of Founder & CEO Federico Collarte. Federico and his Co-Founder & CTO Cibby Pulikkaseril created an elegant solution to the complex problems facing legacy LiDAR systems that give vision to self-driving vehicles. Their Spectrum- Scan™ approach address scalability, reliability, vehicle integration and performance issues that afflict incumbent LiDAR technologies. Baraja, backed by Sequoia China, Blackbird Ventures and Main Sequence Ventures' CSIRO Innovation Fund, has 95 employees and has offices in Sydney, San Francisco and Shanghai. Visit baraja.com.

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