**Beat: Automobiles**

# ALIBABA GROUP s CAINIAO NETWORK And ROBOSENSE Jointly Released -G PLUS -

**G PLUS Driverless Delivery Vehicle**

PARIS - HANGZHOU, 03.06.2018, 08:28 Time

**USPA NEWS -** Alibaba Group's Cainiao Network and RoboSense jointly released on May 31, G Plus, the World's First Solid-State LiDAR Unmanned Logistics Vehicle. Announced at Alibaba's Cainiao Network 2018 Global Smart Logistics Summit, the G Plus Driverless Delivery Vehicle provides Solid-State LiDAR Technology, RS-LiDAR-M1Pre, developed by China's RoboSense. This is the First Time that Solid-State LiDAR has been used in the Development of an Unmanned Vehicle.

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RoboSense and Alibaba will provide Delivery Vehicles with Solid-State LiDARs for G Plus Unmanned Logistics Cars/Trucks, drastically reducing Cost. The Vehicles can be Mass-Produced, allowing Rapid Expansion of Unmanned Logistics Vehicles and streamlining Mass Market Logistics. Unmanned Cars and Trucks can be equipped with Smart Devices, for a Courier Vehicle, Mobile Self-Pickup Station, Mobile Coffee Vending Cart, etc., for New Retail Scenarios.

Alibaba's Cainiao G Plus is equipped with Three RS-LiDAR-M1Pres, Two in Front and One in Rear, to ensure the Most Powerful 3D Perception for driving. This allows Vehicles to clearly see the Direction of Travel : Shape, Distance, Azimuth, Travel Speed, and Direction of Travel of Pedestrians, Cars, Trucks, etc., as well as Exact Areas to drive, ensuring Smooth Flow of Unmanned Logistics Vehicles in Complex Road Environments.

RS-LiDAR-M1Pre is the first MEMS Solid-State LiDAR launched by RoboSense. Presented at CES 2018, the Core Technology of the MEMS LiDAR is disruptive to Traditional Mechanical Multi-Beam Radars. RS-LiDAR-M1Pre MEMS Micro Mirror Scanning Scheme requires only a Few Laser Emitters and Receivers to scan the MEMS Micro-Mirror in Both Directions because of the Swing Angle. Resolution is a Very Fine, High and Vertical Angle Resolution of 0.2° throughout Angle of View.

For Traditional Mechanical Multi-Beam LiDAR to achieve the Same Effect, they require more than a Hundred Laser Transmitters and Receivers to simultaneously rotate and scan, greatly increasing Costs and reducing Yield and Reliability, making the Advantages of MEMS Solid-State LiDAR Technology Obvious. While improving the Performance of LiDAR, Cost Savings is great, and Miniaturization greatly improves Stability.

Source : RoboSense

Ruby BIRD
http://www.portfolio.uspa24.com/
Yasmina BEDDOU
http://www.yasmina-beddou.uspa24.com/

**Article online:**
https://www.uspa24.com/bericht-13511/alibaba-group-s-cainiao-network-and-robosense-jointly-released-g-plus.html

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V.i.S.d.P. & Sect. 6 MDStV (German Interstate Media Services Agreement): Ruby BIRD & Yasmina BEDDOU (Journalists/Directors)

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UPA United Press Agency LTD
483 Green Lanes
UK, London N13NV 4BS
contact (at) unitedpressagency.com
Official Federal Reg. No. 7442619