

OSRAM LiDAR percept platform

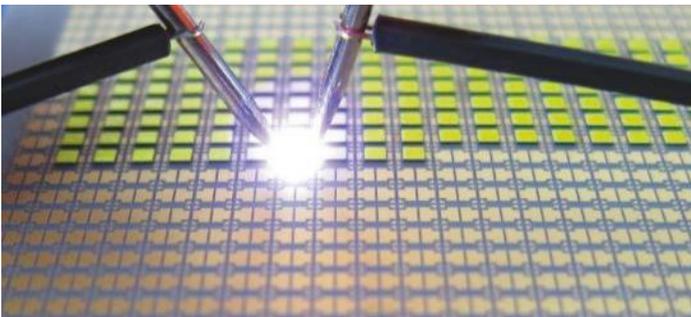
Solid State Automotive 905nm ToF for Long to Mid Range Applications

OSRAM LiDAR percept platform

Long history and broad background in LiDAR and automotive systems



Opto Semiconductors (OS)



Automotive (AM)



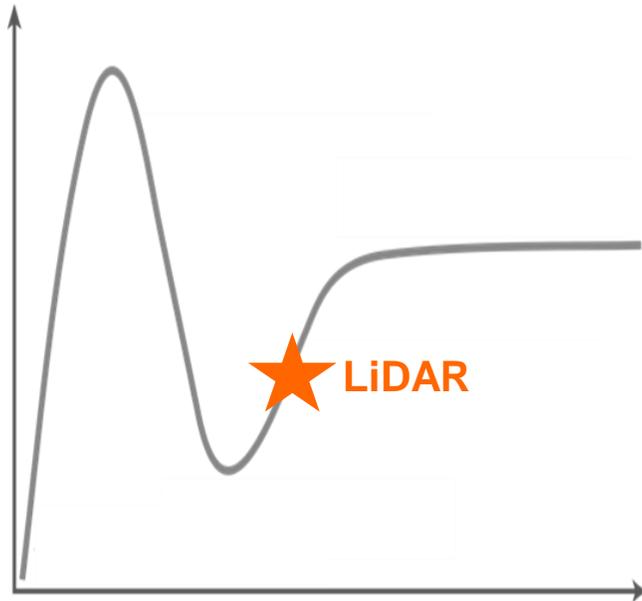
Digital (DI)



Figures for continued operations FY19 (per 09/30/2019), employee figure as FTE per 09/30/2019

OSRAM LiDAR percept platform

Solid State. Mid to Long Range. Automotive Mass Market.



LiDAR Challenge

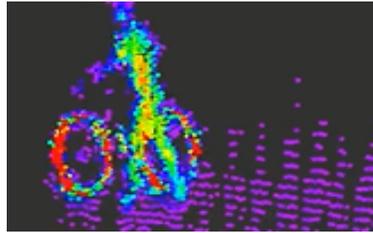
- No clear standards yet
- Requirements are quite different from OEM to OEM
- Cost of the sensor systems too high
- Mutually exclusive goals are technical hurdles (range, FoV)

Platform Strategy

- “Stay flexible AND reach volume”, partnerships
- Flexible adjustment of our platform based on requirements
- Co-development partner for the T1/OEM
- Hit the good enough point with professional industrialization
- On the fly adjustment of FoV and Range → Multi-application LiDAR (TJP/HWP)

OSRAM LiDAR percept platform development

Planned Features



Platform adjustable to application or mounting position

Field of View	7,5° x 6° – 120° x 24°
Frame rate	10Hz – 25Hz
Range	50m – 250m
Resolution	0,20° – 0,40°

Reliable
co-development
partner

Automotive
qualification

Professional
industrialization



Allows precise perception algorithms

– by deterministic scan pattern

Allows optimal sensor fusion

– by deterministic scan pattern and framerate

Advanced multi-hit

– for objects close to each other

High accuracy range

– by digital signal processing

Reflectivity feedback

– by direct amplitude measurement

Instant range and view adjustment

– by novel beam steering approach

Range and View Adjustment

Highway Setting



City Setting



Variable Zoom



Disclaimer



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