

高精度快速线扫2D激光雷达 High-precision High-speed 2D Line LiDAR

ASTRI
香港应用科技研究院



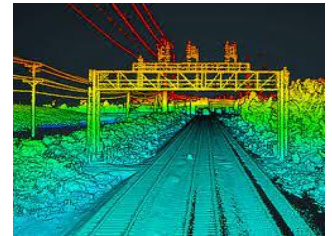
隧道检测
Tunnel inspection



人行道检测
Sidewalk inspection



公路边坡检测
Roadside slope inspection

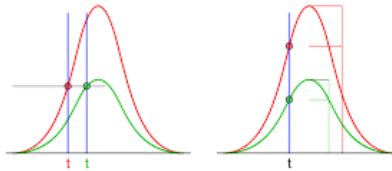


铁路环境检测
Railway surrounding inspection

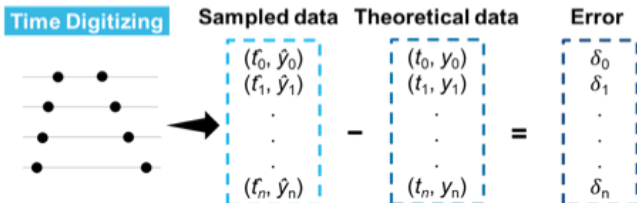
技术优势 Technical Advantages

- 基于时间采样的波形数字化
- **Waveform digitizing based on time-to-digital sampling**
- 快速波形重构算法
- **Fast waveform reconstruction algorithm**

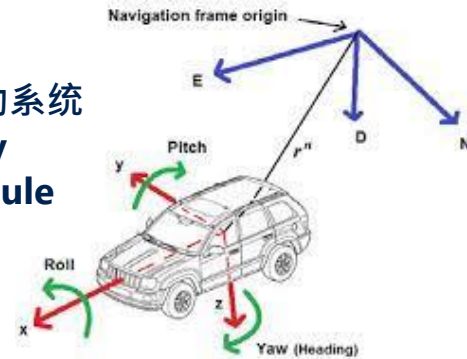
- 精确定时技术
- **Precise Timing**



- 光学设计提高线速度
- **Optical design to increase line rate**



- 结合惯性辅助系统
- **Enhanced by inertial module**



系统规格 System Specifications

扫描频率 Scanning rate	500Hz – 1.3kHz
点云速度 Point cloud speed	1 – 2 million points/s
检测分辨率（移动方向） Longitudinal resolution	1cm @ 36 km/h
精度 Precision	±2mm

