

TF-NOVA is a small size, line pattern laser beam LiDAR developed by Benewake, which is particularly suitable for applications such as obstacle detection, presence activation trigger. Multiple parameters are available for customers to customize and configure to meet various application requirements.

Measurement Performance ≥14m @90%reflectivity, 0Klux ≥13m @10% reflectivity, 0Klux Detection range^① ≥7m @90% reflectivity, 100Klux ≥4m @10% reflectivity, 100Klux Blind zone² ≤ 0.1m Accuracy² ± 5cm @ 0.1-4m Repeatability² < 1cm (1 sigma) @ 0.1-4m **Distance** resolution 1cm Default frame rate Default 100Hz, 1-900Hz customizable **Optical Parameters** VCSEL Light source Central wavelength 905nm FoV of laser emission³ Typ. 14°×1° Class 1 Eye-safe[EN60825] Eye safety Mechanical/Electrical Average power consumption⁽⁴⁾ < 500mW Peak current when starting⁽⁴⁾ < 850mA Start-up time < 1s Power supply DC 5±5%V Operating temperature -25°C ~ +70°C

Technical Specifications



Notes to the specifications:

(1) The measurement range is measured when all light spots are placed on the target board, at 25 °C.

(2) The parameter is measured at 25 °C, 0Klux, when all the light spots are placed on the target board with a reflectivity of 10%.

③ This angle is the design divergence angle of the laser spot. The actual field of view angle that can trigger distance measurement depends on specific conditions such as the measured object and background. Please confirm according to the specific application.
④ Measured at 25 °C, changes in conditions may cause variations in the measurement results.

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