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**Automotive Lidar Performance Requirements and Test
Methods**

车载激光雷达性能要求及试验方法

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Automotive Lidar Performance Requirements and Test Methods

1 SCOPE

This document specifies the performance requirements and inspection rules for the automotive lidar (hereinafter referred to as "lidar"), and describes the corresponding test methods.

This document is applicable to the inspection of lidar, fitted to the road vehicles, for perceiving external information, while this document may be used as a reference for other types of lidar.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB/T 2828.1	Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection
GB/T 16422.2-2022	Plastics—Methods of exposure to laboratory light sources—Part 2: Xenon-arc lamps
GB/T 18655-2025	Vehicles, boats and internal combustion engines—Radio disturbance characteristics—Limits and methods of measurement for the protection of on-board receivers
GB/T 18833	Retroreflective sheeting for traffic control
GB/T 18838.2	Preparation of steel substrates before application of paints and related products—Specifications for metallic blast-cleaning abrasives—Part 2: Chilled-iron grit
GB/T 19951-2019	Road vehicles—Disturbances test methods for electrical/electronic component from electrostatic discharge
GB/T 21437.2-2021	Road vehicles—Test method of electrical disturbances from conduction and coupling—Part 2: Electrical transient conduction along supply lines only
GB/T 21437.3-2021	Road vehicles—Test method of electrical disturbances from conduction and coupling—Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines
GB/T 28046.2-2019	Road vehicles—Environmental conditions and testing for electrical and electronic equipment—Part 2: Electrical loads
GB/T 28046.3-2011	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 3: Mechanical loads
GB/T 28046.4-2011	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads
GB/T 28046.5-2013	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 5: Chemical loads
GB/T 30038	Road vehicles - Degrees of protection (IP-Code) - Protection of electrical equipment against foreign objects, water and access
GB 34660-2017	Road vehicles—Requirements and test methods of electromagnetic compatibility
ISO 20567-1:2017	Paints and varnishes-Determination of stone-chip resistance of coatings-Part 1: Multi-impact testing

3 TERMS AND DEFINITIONS

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