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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 47858.4-2026

**Road vehicles - Test devices for target vehicles, vulnerable road
users and other objects, for assessment of active safety
functions - Part 4: Requirements for bicyclist targets**

道路车辆 用于评估主动安全功能的目标车辆、易受伤害的道路使用者和其他物体
的测试设备 第4部分：自行车骑行者目标物要求

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is based on GB/T 47858 "Road vehicles - Target vehicles, vulnerable road users and..." Part 4 of GB/T 47858, "Test Equipment for Other Objects". The following parts of GB/T 47858 have been published.

---Part 3: Requirements for 3D Target Objects of Passenger Vehicles;

---Part 4: Target Requirements for Cyclists this document is modified to adopt ISO 19206-4:2020 "Road vehicles - Target vehicles for evaluating active safety features, vulnerable road vehicles".

Test equipment for road users and other objects, Part 4: Requirements for bicycle rider targets.

Compared with ISO 19206-4:2020, this document has undergone the following structural adjustments.

---Appendix A corresponds to Appendix G in ISO 19206-4:2020;

---Appendix C corresponds to Appendix D in ISO 19206-4:2020;

---Appendix D corresponds to Appendix C in ISO 19206-4:2020;

---Appendix E corresponds to Appendix B in ISO 19206-4:2020;

--- Annex E of ISO 19206-4:2020 has been deleted.

The technical differences between this document and ISO 19206-4:2020, and the reasons therefor, are as follows.

---ISO 8608 (see 7.3.1, 7.4.1, 7.4.3) has been replaced with the normatively referenced GB/T 7031-2025 to adapt to my country's technical standards.

Improve technical conditions and enhance operability;

---The normative reference GB/T 10000-2023 (see 5.1) has been added to meet the requirements for referencing Chinese anthropometric dimensions;

---The terms "mobile joint BT" (3.2.3) and "immobile joint BT" (3.2.4) have been added, and their definitions have been clarified.

Improve the readability of this document;

---The dimensions of the cyclist's target object have been changed (see 5.1 and Appendix B) to conform to the requirements of Chinese anthropometric features;

---The requirements and content related to children's bicycle targets (see 5.1, 5.2 and Appendix B) have been deleted to comply with Chinese laws and regulations.

Regulations regarding the age for riding bicycles;

---The frequency band used by the vehicle-mounted radar will be changed to 76GHz~79GHz (see 6.3.1) to comply with my country's radar radio management regulations.

Regulation;

---Inconsistent numerical representations in section 7.2.1 have been removed to comply with standard drafting requirements;

---The redundant expressions "(deceleration)" and "(acceleration)" in section 7.2.2 have been removed to comply with the standard drafting requirements;

---Figure B.3BT, the target object's attitude, has been deleted. This figure is redundant with Figure 1 and can be directly referenced from the previous text.

---The verification examples of foreign BT characteristics have been removed to adapt to my country's technical conditions and improve operability;

The following editorial changes have been made to this document.

---The URLs for the ISO and IEC terminology databases have been removed;

--- BS6102-2:1982 (see E.2.2) has been replaced with GB/T 31887.3-2025, which is cited in the informational reference.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This document is under the jurisdiction of the National Automotive Standardization Technical Committee (SAC/TC114).

Introduction

In the field of intelligent connected vehicle testing equipment, ISO 19206 "Road vehicles - Test equipment for evaluating active safety functions" is widely adopted internationally.

Test equipment for target vehicles, vulnerable road users, and other objects. This ISO standard has been published in six parts. [List of parts to be filled in].

Vehicle rear-end targets, pedestrian targets, 3D passenger vehicle targets, cyclist targets, motorized two-wheeled vehicle targets, target carriers System behavior testing methods. The main parts of this ISO standard under development include. animal targets, stationary roadside targets, etc.

The "Test Equipment" standard, based on ISO 19206 and adapted to China's specific needs, sets forth relevant requirements for test equipment used to evaluate active safety functions.

The proposed solution consists of four parts.

---Part 1: Requirements for Rear-End Targets of Passenger Vehicles. The purpose is to specify the requirements for the appearance, size, and reflectivity of rear-end targets of passenger vehicles.

Requirements such as these ensure that the relevant target products conform to the characteristics of the back end of real passenger vehicles in China's actual road traffic.

---Part 2: Requirements for Pedestrian Targets. The purpose is to specify the requirements for pedestrian targets in terms of appearance, motion characteristics, and reflective properties.

The requirement is to ensure that the relevant target products conform to the characteristics of real pedestrians in actual road traffic in China.

---Part 3: Requirements for 3D Target Objects of Passenger Vehicles. The purpose is to specify the requirements for 3D target objects of passenger vehicles in terms of appearance, reflectivity, etc.

The requirements are to ensure that the relevant target products conform to the characteristics of real passenger vehicles in China's actual road traffic.

---Part 4: Requirements for Cyclist Target Objects. The purpose is to specify the requirements for cyclist target objects in terms of appearance, motion characteristics, etc.

Requirements such as reflectivity ensure that the products meet the characteristics of real cyclists on Chinese roads.

Road vehicles used to evaluate active safety features Target vehicle, vulnerable road user Test equipment for other objects, Part 4.

cyclist target requirements

1 Scope

This document specifies the characteristics and performance requirements of cyclist-specific objects used to evaluate active safety features, including those related to appearance, performance, and other aspects.

Motion characteristics and reflection characteristics can characterize a real cyclist. Cyclist targets are used to evaluate active safety features.

The system's functionality and activation performance.

This document specifies the characteristics of the target object for a cyclist. This document is based on currently used sensor technologies and future sensor technologies.

Methods for assessing the performance of the target object carrier.

The bicycle rider targets in this document do not include electric-assisted scooter bicycles (electric scooter bicycles, electric-assisted bicycles).

This document does not cover test procedures related to speed, location, or event timing, nor other performance aspects of active safety systems.

Require.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.