

ICS 43.040.10
CCS T 36



中华人民共和国国家标准
NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 44497-2024

**Intelligent and Connected Vehicle—Data Storage System
for Automated Driving**
智能网联汽车 自动驾驶数据记录系统

(English Translation)

Issued on 2024-08-23

Implemented on 2026-01-01

Jointly Issued by
State Administration for Market Regulation of the People's Republic of China &
Standardization Administration of the People's Republic of China

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Intelligent and Connected Vehicle —Data Storage System for Automated Driving

1 SCOPE

This document specifies the technical requirements, test methods and criteria for determination of one type, with respect to the data storage system for automated driving of the intelligent and connected vehicles (ICV).

This document is applicable to the data storage system for automated driving fitted to the vehicles of categories M and N.

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 1865-2009	Measurement of fluid flow in closed conduits—Guidance for the use of electromagnetic flowmeters
GB 11551	The protection of the occupants in the event of a frontal collision for motor vehicle
GB 16735	Road vehicle—Vehicle identification number (VIN)
GB/T 19951-2019	Road vehicles—Disturbances test methods for electrical/electronic component from electrostatic discharge
GB 20071	The protection of the occupants in the event of a lateral collision
GB/T 20913	The protection of the occupants in the event of an off-set frontal collision for passenger car
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 28046.1-2011	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 1: General
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 30038-2013	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
GB 39732-2020	Vehicle event data recorder system
GB/T 40429-2021	Taxonomy of driving automation for vehicles
GB/T 40822	Road vehicles—Unified diagnostic services
GB/T 43258.2	Road vehicles—Diagnostic communication over Internet Protocol

	(DoIP)—Part 2: Transport protocol and network layer services
GB/T 43258.4	Road vehicles—Diagnostic communication over Internet Protocol (DoIP)—Part 4: Ethernet-based high-speed data link connector
GB/T 44721	Intelligent and connected vehicle—General technical requirements for automated driving system

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions established in GB 39732-2020 and GB/T 40429-2021, as well as the following apply.

3.1 data storage system for automated driving (DSSAD)

a system which is mounted on a vehicle with the automatic driving function, capable of monitoring, collecting and storing data during the active period of the automatic driving system, and supports the data reading

Note 1: The active period covers the process from the active state to the inactive state.

Note 2: The DSSAD includes type I system and type II system.

[Source: GB/T 44373-2024, 5.13, modified]

3.2 impact event

an impact or other physical event that reaches or exceeds the trigger threshold, or any other event that causes the deployment of non-reversible restraint, whichever occurs first

Note: The deployment of a pedestrian protection device or the vulnerable road user (VRU) impact event detected by other system is identified as an impact event.

[Source: GB 39732-2020, 3.1 modified]

starting point of event, T_0

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