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

GA/T 1999.1-2022

**Methods for speed identification of vehicles involved in road
traffic accidents - Part 1: Method based on vehicle travelling
data recorder**

道路交通事故车辆速度鉴定方法 第1部分：基于汽车行驶记录仪
(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents" to be drafted:

This document is the first part of GA/T 1999 "Vehicle Speed Appraisal Method for Road Traffic Accidents": GA/T 1999 has been issued with Lower part:

--- Part 1: Based on the vehicle driving recorder;

--- Part 2: Based on the vehicle event data recording system:

Please note that some contents of this document may refer to patents: The issuing agency of this document assumes no responsibility for identifying patents:

Introduction

Road traffic accident inspection and identification is an important link in the accident handling procedure, and vehicle speed identification is an important technical method among them:

The analysis of the cause of the accident and the determination of the responsibility for the accident have an important supporting role in evidence: Vehicle speed identification can be based on dynamics theory, empirical formula, model Methods such as quasi-test, simulation reproduction, vehicle driving recorder, vehicle event data recording system, and

video images are suitable for vehicle speed identification:

Select the appropriate method according to the accident form and inspection material conditions, and cross-validation should be carried out if the application requirements of multiple identification methods are met: GA/T 1999 it was formulated to guide the selection of vehicle speed identification methods, standardize the identification requirements, identification steps and methods for vehicle speed identification in road traffic accidents:

Appraisal opinion:

GB/T 33195-2016 "Vehicle Speed Appraisal in Road Traffic Accidents" is the universal and basic Standard, GA/T 1999 "Vehicle Speed Appraisal Method for Road Traffic Accidents" is a supplement and detail to the appraisal method in GB/T 33195-2016 GA/T 1999 is proposed to be composed of three parts:

--- Part 1: Based on the vehicle tachograph: Aiming at ensuring the speed identification of vehicles in road traffic accidents based on vehicle travel recorders the scientificity and accuracy of the determined results:

--- Part 2: Based on the vehicle event data recording system: Aiming at guaranteeing the safety of road traffic accidents based on automotive event data recording systems Therefore, the scientificity and accuracy of the vehicle speed identification results:

--- Part 3: Based on video images: A science aimed at guaranteeing the results of vehicle speed identification in road traffic accidents based on video images sex and accuracy:

Appraisal Method of Vehicle Speed in Road Traffic Accidents Part 1: Based on vehicle driving recorder

1 Scope

This document specifies the terms and definitions, identification requirements, and identification methods for vehicle speed identification in road traffic accidents based on vehicle travel recorders:

and a statement of opinion:

This document is applicable to the identification of vehicle speed in road traffic accidents based on vehicle travel recorders, and the identification of vehicle behavior based on vehicle travel recorders:

The identification of the driving state and the identification of the vehicle speed based on the satellite positioning device with the function of driving records are carried out by reference:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references for documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

GB/T 19056 Vehicle Travel Recorder GB/T 33195 Appraisal of Vehicle Speed in Road Traffic Accidents GA/T 1998-2022 Technical Specifications for Vehicle Electronic Data Extraction

3 Terms and Definitions

The following terms and definitions apply to this document:

Record and store vehicle speed, time, location and other data as well as audio and video data, and realize data transmission through data communication digital electronic recording device:

[Source: GB/T 19056-2021, 3:1] 3.2 Extracted from the car driving recorder, it includes driving status records, accident doubt records, overtime driving records, driver information records, daily Electronic data of log records and other information:

Integrity check value the electronic data is calculated using a specific algorithm such as a hash algorithm, and the data value used to verify the integrity of the data is obtained:

[Source: GA/T 1568-2019, 2:74] 3.4 Integrity check integrity check Use the integrity check value to check whether the data copy result is completely consistent with the copied data:

[Source: GA/T 1568-2019, 2:75]