

INTERNATIONAL STANDARD

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**Event video data recorder for road vehicle accidents –
Part 1: Basic requirements**

**Enregistreurs de données vidéo pour l'identification et l'analyse des causes des
accidents des véhicules routiers –
Partie 1: Exigences de base**



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EVENT VIDEO DATA RECORDER FOR ROAD VEHICLE ACCIDENTS –**Part 1: Basic requirements**

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International Standard IEC 63005-1 has been prepared by technical area 17: Multimedia systems and equipment for cars, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this International Standard is based on the following documents:

CDV	Report on voting
100/2839/CDV	100/2947/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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INTRODUCTION

There is a distinction between event video data recorder (EVDR) systems and digital tachographs (DTG, ISO 16844-7), which record vehicle dynamics and the driver's activities during the entire driving period. There is also a distinction between EVDR systems and event data recorders (EDR, IEEE 1616), which record vehicle dynamics and the driver's activities before, during and after the event. DTGs and EDRs both have direct connections to the vehicle's internal signal line, such as in-vehicle network (IVN) or analogue signal line, whereas direct connection is not required for EVDRs.

EVDR systems are prohibited from serving purposes other than the aforementioned. They cannot be placed in unapproved areas and/or not record sound.

EVENT VIDEO DATA RECORDER FOR ROAD VEHICLE ACCIDENTS –

Part 1: Basic requirements

1 Scope

This part of IEC 63005 describes basic requirements for event video data recorders (EVDRs) for road vehicle accidents, used for identifying and analysing causes of accidents based on video from a front-mounted camera and other information obtained before and after such events. In addition to video from a front-mounted camera and vehicle behaviour, these products can record side and/or rear video data for enhanced functionalities in determining causes of accidents and analysing collision events.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-2-1:2007, *Environmental testing – Part 2-1: Tests – Test A: Cold*

IEC 60068-2-6, *Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)*

IEC 60068-2-27:2010, *Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock*

ISO 12233, *Photography – Electronic still picture imaging — Resolution and spatial frequency responses*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

EVDR for road vehicle accidents

system that stores vehicle video data of the accident on an electronic recording medium before, during, and after collision accident events with other vehicles, with passers-by and with any other objects

3.2

event data

information recorded by the EVDR to facilitate analysis of accident scenarios in the case of collision accident events with other vehicles, pedestrians or objects

Note 1 to entry: The term refers to all videos and additional information before, during, and after collision.