

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Multimedia systems and equipment for vehicles – Surround view system –  
Part 2: Recording methods of the surround view system**

**Systèmes et équipements multimédias pour véhicules – Système de vision  
panoramique –  
Partie 2: Méthodes d'enregistrement du système de vision panoramique**





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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MULTIMEDIA SYSTEMS AND EQUIPMENT FOR VEHICLES –  
SURROUND VIEW SYSTEM –****Part 2: Recording methods of the surround view system**

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IEC 63033-2 has been prepared by technical area 17: Multimedia systems and equipment for vehicles, of IEC technical committee 100: Audio, video and multimedia systems and equipment. It is an International Standard.

This second edition cancels and replaces the first edition published in 2018. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) updates to the text and the title to reflect the change of the scope of the IEC 63033 series.

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

Draft	Report on voting
100/3733/FDIS	100/3752/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

A list of all parts in the IEC 63033 series, published under the general title *Multimedia systems and equipment for vehicles – Surround view system*, can be found on the IEC website.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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## INTRODUCTION

This document specifies recording methods of the surround view system specified in IEC 63033-1, which also specifies the model for generating the surrounding visual image of the surround view system. The system allows drivers to monitor the vehicle's perimeter in real time by using "free eye point" technology, which allows drivers to dynamically change the viewing perspective, offering the most appropriate views according to the driving situation.

# MULTIMEDIA SYSTEMS AND EQUIPMENT FOR VEHICLES – SURROUND VIEW SYSTEM –

## Part 2: Recording methods of the surround view system

### 1 Scope

This part of IEC 63033 specifies recording methods of the surround view system that is specified in IEC 63033-1 in order to view the video file recorded with "free eye point" technology.

### 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 63033-1, *Multimedia systems and equipment for vehicles – Surround view system – Part 1: General*

### 3 Terms, definitions and abbreviated terms

No terms and definitions are listed in this document.

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 Abbreviated terms

SIM stream information and metadata

GNSS global navigation satellite system

### 4 System model

#### 4.1 General

This document specifies the recording methods of footage obtained from a vehicle-mounted camera that is part of the surround view system, and also specifies a model for the replay of the recorded video. The replay of the recorded video can serve a number of purposes, such as the verification of the reasons of an accident, as legal proof, for reviewing driving behaviour, and use at educational sites.

There are two types of recorded videos: recording of each camera image (referred to as "recording 1"), and recording of the composite image (referred to as "recording 2"). For use when the recorded videos are played back, the related metadata (refer to 4.2.2.3 and 4.2.3.3) is simultaneously saved in recording 1 and recording 2. These recorded files are transferred by a portable recording medium or via a network, where they can be later played back by the user. The user can also recreate the composite image by using the stored metadata by using the free eye point function in the viewer (refer to Clause 5).