

**Nadomešča:****SIST EN IEC 63033-2:2019**

---

**Multimedijski sistemi in oprema za vozila - Sistem prostorskega pogleda - 2. del:  
Metode snemanja prostorskega pogleda (IEC 63033-2:2022)**

Multimedia Systems and equipment for vehicles - Surround view system - Part 2:  
Recording methods of the surround view system (IEC 63033-2:2022)

Multimedia Systeme und Einrichtungen für Fahrzeuge - Rundumsicht System - Teil 2:  
Verfahren zur Aufzeichnung des Rundumsicht Systems (IEC 63033-2:2022)

Systèmes et équipements multimédias pour véhicules - Système de vision panoramique  
- Partie 2: Méthodes d'enregistrement du système de vision panoramique (IEC 63033-  
2:2022)

**Ta slovenski standard je istoveten z: EN IEC 63033-2:2022**

**ICS:**

33.160.60	Večpredstavni (multimedijski) sistemi in oprema za telekonference	Multimedia systems and teleconferencing equipment
43.040.15	Avtomobilska informatika. Vgrajeni računalniški sistemi	Car informatics. On board computer systems

**SIST EN IEC 63033-2:2022****en,fr,de**



EUROPEAN STANDARD

**EN IEC 63033-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2022

ICS 33.160.99; 43.040.15

Supersedes EN IEC 63033-2:2019

English Version

**Multimedia Systems and equipment for vehicles - Surround view system - Part 2: Recording methods of the surround view system (IEC 63033-2:2022)**

Systèmes et équipements multimédias pour véhicules -  
Système de vision panoramique - Partie 2: Méthodes  
d'enregistrement du système de vision panoramique  
(IEC 63033-2:2022)

Multimedia Systeme und Einrichtungen für Fahrzeuge -  
Rundumsicht System - Teil 2: Verfahren zur Aufzeichnung  
des Rundumsicht Systems  
(IEC 63033-2:2022)

This European Standard was approved by CENELEC on 2022-05-25. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 63033-2:2022 (E)****European foreword**

The text of document 100/3733/FDIS, future edition 2 of IEC 63033-2, prepared by IEC/TC 100 "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63033-2:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-02-25
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-05-25

This document supersedes EN IEC 63033-2:2019 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

**iTeh STANDARD PREVIEW**  
**Endorsement notice**  
**(standards.itih.ai)**

The text of the International Standard IEC 63033-2:2022 was approved by CENELEC as a European Standard without any modification.

<https://standards.itih.ai/catalog/standards/sist/082e768f-521c-49b7-8862-ca045044edd1/sist-en-iec-63033-2-2022>

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 63033-1	-	Multimedia systems and equipment for vehicles - Surround view system - Part 1: General	EN IEC 63033-1	-

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

SIST EN IEC 63033-2:2022

<https://standards.iteh.ai/catalog/standards/sist/082e768f-521c-49b7-8862-ca045044edd1/sist-en-iec-63033-2-2022>





# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**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**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 33.160.99; 43.040.15

ISBN 978-2-8322-1095-1

**Warning! Make sure that you obtained this publication from an authorized distributor.  
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

## CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references .....	6
3 Terms, definitions and abbreviated terms .....	6
3.1 Abbreviated terms.....	6
4 System model.....	6
4.1 General.....	6
4.2 Video recording.....	7
4.2.1 General .....	7
4.2.2 Recording 1 .....	7
4.2.3 Recording 2.....	8
5 Viewer .....	10
5.1 General.....	10
5.2 General viewer.....	10
5.3 Enhanced viewer .....	10
Figure 1 – Display and recording system model of surround view system.....	7
Figure 2 – Raw video data example of recording 1 – Images before composition .....	7
Figure 3 – The composite video data example of recording 2.....	9
Figure 4 – Viewer example .....	10
Table 1 – Metadata for recording 1 .....	8
Table 2 – Metadata for dependent part of video data 1 .....	8
Table 3 – Metadata for dependent part of video data 2 .....	9



## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

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).

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

[SIST EN IEC 63033-2:2022](https://standards.iteh.ai/catalog/standards/sist/082e768f-521c-49b7-8862-)

<https://standards.iteh.ai/catalog/standards/sist/082e768f-521c-49b7-8862->

**IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.**