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**Car multimedia systems and equipment – Drive monitoring system
Part 3: Measurement methods**

**Systèmes et équipements multimédias pour automobiles – Système de
surveillance de la conduite
Partie 3: Méthodes de mesure**



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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 33.160.60; 43.040.10; 43.050.15

ISBN 978-2-8322-7312-8

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CAR MULTIMEDIA SYSTEMS AND EQUIPMENT –
DRIVE MONITORING SYSTEM****Part 3: Measurement methods****FOREWORD**

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International Standard IEC 63033-2 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
100/3147/CDV	100/3258/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.

A list of all parts in the IEC 63033 series, published under the general title *Car multimedia systems and equipment – Drive monitoring system*, can be found on the IEC website.

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

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INTRODUCTION

This document specifies measurement methods for the drive monitoring system that is specified in IEC TS 63033-1:2017. IEC TS 63033-1:2017 specifies the model for generating the surrounding visual image of a drive monitoring system. The system allows drivers to monitor the car's perimeter in real time by using "free eye point" technology, which allows drivers to dynamically change the viewing perspective to obtain the most appropriate views according to the driving situation.

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CAR MULTIMEDIA SYSTEMS AND EQUIPMENT – DRIVE MONITORING SYSTEM

Part 3: Measurement methods

1 Scope

This document specifies measurement methods for the drive monitoring system that is specified in IEC TS 63033-1:2017.

2 Normative references

The following documents are referred to in the text in such a way that any 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 TS 63033-1:2017, *Car multimedia system and equipment – Drive monitoring system – Part 1: General*

ISO 16505:2019, *Road vehicles – Ergonomic and performance aspects of Camera Monitor Systems – Requirements and test procedures*

UN Regulation No. 46, *Uniform provisions concerning the approval of devices for indirect vision and of motor vehicles with regards to the installation of these devices*

UN Regulation No. 125, *Uniform provisions concerning the approval of motor vehicles with regards to the forward field of vision of the motor vehicle driver*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

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>

3.2 Abbreviated terms

FOV field of view

4 System model

The system model of the drive monitoring system is described in Figure 1. A drive monitoring system shall generate multiple camera composite images and/or single camera images, using cameras that are mounted on the outside the car. The views to be generated by this system shall capture the fields of view specified in Clause 7. This system shall generate multiple views according to the fields of view to be secured. For measurement methods, the system shall refer to ISO 16505 and UN Regulation No. 46. However, the system does not need to fully comply with ISO 16505 and UN Regulation No. 46.