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Visible light beacon system for multimedia applications

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 62943:2017 sisaldab Euroopa standardi EN 62943:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 62943:2017 consists of the English text of the European standard EN 62943:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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ICS 33.160.60, 35.100.10

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ICS 33.160.60; 35.100.10

English Version

Visible light beacon system for multimedia applications
(IEC 62943:2017)

Système de balise de lumière visible pour applications
multimédias
(IEC 62943:2017)

Signalsystem mit sichtbarem Licht für Multimedia-
Anwendungen
(IEC 62943:2017)

This European Standard was approved by CENELEC on 2017-04-11. 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.

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

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European foreword

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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) 2018-01-11
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-04-11

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In the official version, for Bibliography, the following note has to be added for the standard indicated :

IEC 62471 NOTE Harmonized as EN 62471.

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VISIBLE LIGHT BEACON SYSTEM FOR MULTIMEDIA APPLICATIONS

1 Scope

This International Standard aims at establishing a unified standard concerning the lower communication layer common to multimedia applications, and does not deal with the upper communication layer which depends upon individual applications.

This document specifies a unidirectional visible light communication protocol using visible light, named "visible light beacon system for multimedia applications". This document does not specify the type of receivers. Dimming can be done by such methods as pulse width control or amplitude control, but the dimming is out of the scope of this document.

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.

There are no normative references in this document.

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

visible light beacon transmitter

transmitter utilizing visible light beacon of visible light transmission standard

3.2

visible light beacon receiver

receiver utilizing visible light beacon of visible light transmission standard

3.3

visible light beacon system

unidirectional beacon system utilizing visible light as its carrier

3.4

ID resolution

resolution of information related to the ID

3.5

ID resolution server

server capable of ID resolution from inquired ID