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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.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 23.06.2017.	Date of Availability of the European standard is 23.06.2017.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from 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)

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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.

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## European foreword

The text of document 100/2850/FDIS, future edition 1 of IEC 62943, 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 62943:2017.

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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## Endorsement notice

The text of the International Standard IEC 62943:2017 was approved by CENELEC as a European Standard without any modification.

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