

Multimedia systems and equipment - Multimedia  
e-publishing and e-books technologies - Texture map  
for auditory presentation of printed texts

## EESTI STANDARDI EESSÕNA

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English Version

**Multimedia systems and equipment - Multimedia e-publishing  
and e-books technologies - Texture map for auditory  
presentation of printed texts  
(IEC 62665:2015)**

Systèmes et appareils multimédia - Technologies de  
l'édition électronique multimédia et des livres électroniques  
- Carte de texture pour la présentation auditive de textes  
imprimés  
(IEC 62665:2015)

Multimediasysteme und -systeme - Multimedia e-publishing  
und e-book Technologien - Textur Abbildung für die auditive  
Darstellung von gedruckten Texten  
(IEC 62665:2015)

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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

The text of document 100/2431/CDV, future edition 2 of IEC 62665, prepared by Technical Area 10 “Multimedia e-publishing and e-book technologies” of IEC/TC 100 “Audio, video and multimedia systems and equipment” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62665:2016.

The following dates are fixed:

- latest date by which the document has to be (dop) 2016-10-15  
implemented at national level by  
publication of an identical national  
standard or by endorsement
- latest date by which the national (dow) 2019-01-15  
standards conflicting with the  
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In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 62875:2015

NOTE Harmonized as EN 62875:2015.

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## INTRODUCTION

Information interchange via printed documents between blind or visually impaired people has been carried out by using Braille. However, in order to be able to read Braille, particular tuition is required. Learning Braille is very difficult for aged as well as visually non-impaired people.

Printed documents with texts and text-encoded texture maps can be interchanged by ordinary circulation or publication mechanisms. They are readable as ordinary printed materials and comprehensible by blind or visually impaired people with the support of decoding and auditory presentation equipment.

Today, interchanging of printed documents has become wide-spread and international. The text-encoding scheme to generate a texture map should therefore be standardized at an international level.

### Patent

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PATENT No. 4439756 (Japan)  
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# **MULTIMEDIA SYSTEMS AND EQUIPMENT – MULTIMEDIA E-PUBLISHING AND E-BOOK TECHNOLOGIES – TEXTURE MAP FOR AUDITORY PRESENTATION OF PRINTED TEXTS**

## **1 Scope**

In order to generate a texture map for auditory presentation of printed text information, this International Standard specifies

- a text encoding scheme to generate a texture map,
- a physical shape and dimension of the texture map for printing,
- additional features for texture map printing,
- texture map decoding and an auditory presentation of decoded texts.

These specifications enable the interchange of documents and publications between visually impaired and non-impaired people.

## **2 Terms and definitions**

For the purposes of this document, the following terms and definitions apply.

### **2.1**

#### **texture map**

two dimensional cell patterns which include alignment lines and a data matrix which is generated from text data compression and error correction encoding

### **2.2**

#### **auditory presentation equipment**

equipment including an engine to carry out a text-to-speech

## **3 Texture map**

### **3.1 Names of elements**

A shape and names of a texture map are indicated in Figure 1. The shape represents the M size in Table 1.