



SLOVENSKI STANDARD
SIST EN 61966-2-5:2008
01-marec-2008

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Multimedia systems and equipment - Colour measurement and management - Part 2-5:
Colour management - Optional RGB colour space - opRGB (IEC 61966-2-5:2007)

Multimediasysteme und -geräte - Farbmessung und Farbmanagement - Teil 2-5:
Farbmanagement - Optionaler RGB-Farbraum - opRGB (IEC 61966-2-5:2007)

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Mesure et gestion de la couleur (dans les systèmes et appareils multimédia) - Partie 2-5:
Gestion de la couleur - Espace chromatique RVB optionnel - opRVB (CEI 61966-2-5:2007)

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Ta slovenski standard je istoveten z: EN 61966-2-5:2008

ICS:

17.180.20

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en

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English version

**Multimedia systems and equipment -
Colour measurement and management -
Part 2-5: Colour management -
Optional RGB colour space -
opRGB
(IEC 61966-2-5:2007)**

Mesure et gestion de la couleur
dans les systèmes
et appareils multimédia -
Partie 2-5: Gestion de la couleur -
Espace chromatique RVB optionnel -
opRGB
(CEI 61966-2-5:2007)

Multimediasysteme und -geräte -
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This European Standard was approved by CENELEC on 2007-12-01. 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 Central Secretariat or to any CENELEC member.

This European Standard exists in two official versions (English and 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 Central Secretariat has the same status as the official versions.

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

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 100/1212/CDV, future edition 1 of IEC 61966-2-5, prepared by technical area 2, Colour measurement and management, of IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the IEC-CENELEC parallel Unique Acceptance Procedure and was approved by CENELEC as EN 61966-2-5 on 2007-12-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2008-09-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2010-12-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61966-2-5:2007 was approved by CENELEC as a European Standard without any modification.

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Annex ZA
(normative)

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

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-845	1987	International Electrotechnical Vocabulary (IEV) - Chapter 845: Lighting	-	-
ISO 3664	2000	Viewing conditions - Graphic technology and photography	-	-
ISO/CIE 10527	1991 ¹⁾	CIE standard colorimetric observers	-	-
CIE 15	2004	Colorimetry	-	-
CIE 17.4	1987	International Lighting Vocabulary	-	-
CIE 122	1996	The relationship between digital and colorimetric data for computer-controlled CRT displays	-	-
CIE 1931	- ²⁾	CIE XYZ color space	-	-

¹⁾ ISO/CIE 10527:1991 is replaced by ISO 10527:2007.

²⁾ Undated reference.

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Edition 1.0 2007-11

INTERNATIONAL STANDARD

**Multimedia systems and equipment – Colour measurement and management –
Part 2-5: Colour management – Optional RGB colour space – opRGB**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MULTIMEDIA SYSTEMS AND EQUIPMENT –
COLOUR MEASUREMENT AND MANAGEMENT –**

**Part 2-5: Colour management –
Optional RGB colour space –
opRGB**

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.
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International Standard IEC 61966-2-5 has been prepared by technical area 2: Colour measurement and management, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this standard is based on the following documents:

CDV	Report on voting
100/1212/CDV	100/1282/RVC

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The list of all parts of the IEC 61966 series, under the general title *Multimedia systems and equipment – Colour measurement and management*, can be found on the IEC website.

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

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

A bilingual version of this publication may be issued at a later date.

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INTRODUCTION

The colour gamut for various image I/O devices has been gradually extended in recent years. IEC 61966-2-1 “Multimedia Systems and Equipment – Colour Measurement and Management – Part 2-1: Colour Management – Default RGB Colour Space – sRGB” is the International Standard issued in 1999, based on the colour characteristics of contemporary CRT displays.

Subsequently, displays with a wider colour gamut have been commercialized in order to better cover the colour gamut that is available for digital still cameras, printers and other devices. This International Standard specifies a colour image encoding similar to the sRGB encoding, but based on a wider gamut colour space than sRGB. The rendering of the image for specific applications is beyond the scope of this standard. A display that has a colour gamut wider than conventional displays has been selected as the “Reference image display system characteristics” in this standard. These wider colour gamut displays provide advantages in commercial printing industry workflows and are intended to be used by professional photographers, prepress industry including DTP and designers.

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