



# SLOVENSKI STANDARD

## SIST EN 61966-2-2:2003

01-december-2003

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### Multimedia systems and equipment - Colour measurement and management - Part 2-2: Colour management - Extended RGB colour space - scRGB (IEC 61966-2-2:2003)

Multimedia systems and equipment - Colour measurement and management -- Part 2-2: Colour management - Extended RGB colour space - scRGB

Multimediasysteme und -geräte - Farbmessung und Farbmanagement -- Teil 2-2: Farbmanagement - Erweiterter RGB-Farbraum - scRGB

Mesure et gestion de la couleur dans les systèmes et appareils multimédia -- Partie 2-2: Gestion de la couleur - Espace chromatique RVB étendu - scRVB

Ta slovenski standard je istoveten z: **EN 61966-2-2:2003**

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#### **ICS:**

17.180.20	Barve in merjenje svetlobe	Colours and measurement of light
33.160.60	Večpredstavni (multimedijski) sistemi in oprema za telekonference	Multimedia systems and teleconferencing equipment

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**en**

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EUROPEAN STANDARD

**EN 61966-2-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2003

ICS 33.160.60; 37.080

English version

**Multimedia systems and equipment -  
Colour measurement and management  
Part 2-2: Colour management -  
Extended RGB colour space - scRGB  
(IEC 61966-2-2:2003)**

Mesure et gestion de la couleur  
dans les systèmes et appareils multimédia  
Partie 2-2: Gestion de la couleur -  
Espace chromatique RVB étendu - scRVB  
(CEI 61966-2-2:2003)

Multimediasysteme und -geräte -  
Farbmessung und Farbmanagement  
Teil 2-2: Farbmanagement -  
Erweiterter RGB-Farbraum - scRGB  
(IEC 61966-2-2:2003)

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# 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 100/556A/FDIS, future edition 1 of IEC 61966-2-2, 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 vote and was approved by CENELEC as EN 61966-2-2 on 2003-03-01.

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) 2004-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2006-03-01

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Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annex ZA is normative and annexes A, B and C are informative.

Annex ZA has been added by CENELEC.

### Endorsement notice

The text of the International Standard IEC 61966-2-2:2003 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 61966-2-1 NOTE Harmonized as EN 61966-2-1:2000 (not modified).

**Annex ZA**  
(normative)**Normative references to international publications  
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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	-	-

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# INTERNATIONAL STANDARD

# IEC 61966-2-2

First editio  
2003-0

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## Multimedia systems and equipment – Colour measurement and management –

### Part 2-2: Colour management –

### Extended RGB colour space - scRGB

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*Mesure et gestion de la couleur dans les systèmes  
et appareils multimédia –*

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*Partie 2-2:*

*Gestion de la couleur –*

*Espace chromatique RVB étendu - scRVB*

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
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PRICE CODE



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MULTIMEDIA SYSTEMS AND EQUIPMENT –  
COLOUR MEASUREMENT AND MANAGEMENT –**
**Part 2-2: Colour management –  
Extended RGB colour space – scRGB**

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
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The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning encoding of colour management given in clause 4.

The IEC takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured the IEC that he is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with IEC. Information may be obtained from

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61966 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:

FDIS	Report on voting
100/556A/FDIS	100/626/RVD

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.

IEC 61966 consists of the following parts, under the general title *Multimedia systems and equipment – Colour measurement and management*:

Part 2-1: Colour management – Default RGB colour space – sRGB

Part 2-2: Colour management – Extended RGB colour space – scRGB

Part 3: Equipment using cathode ray tubes

Part 4: Equipment using liquid crystal display panels

Part 5: Equipment using plasma display panels

Part 7-1. Colour printers – Reflective prints – RGB inputs

Part 8: Multimedia colour scanners

Part 9: Digital cameras

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The committee has decided that the contents of this publication will remain unchanged until 2007. At this date, the publication will be

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- reconfirmed; <https://standards.iteh.ai/catalog/standards/sist/cc233d76-105a-4439-9aba-59e109b7ed36/sist-en-61966-2-2-2003>
- withdrawn;
- replaced by a revised edition, or
- amended.

## INTRODUCTION

The IEC 61966 standards are a series of methods and parameters for colour measurements and management for use in multimedia systems and equipment applicable to the assessment of colour reproduction.

The method of digitization in this part is designed to provide high bit precision, large colour gamut and extended dynamic range that is linear with respect to scene radiance. Based on IEC 61966-2-1 (sRGB), this colour space is well suited to meet the needs of the multimedia, gaming and computer graphics applications. This standard provides a robust solution to these needs. The white point and colour primaries of the scRGB solution are directly inherited from the IEC 61966-2-1 (sRGB) standard. The encoding transformations provide all of the necessary information to encode an image.

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