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CONTENTS

FOREWORD 4
INTRODUCTION 6
1 Scope 7
2 Normative references 7
3 Terms and definitions 7
4 Letters and symbols 9
5 Conditions 9
5.1 Environmental conditions 9
5.2 Conditions of measurements 10
5.3 Input digital data 11
6 Measurement equipment 12
6.1 Spectroradiometer 12
6.2 Colorimeter 13
7 Spectral characteristics and intensity of the primaries and white 13
7.1 Characteristics to be measured 13
7.2 Measurement conditions 13
7.3 Method of measurement 14
7.4 Presentation of results 14
8 Basic colorimetric characteristics 15
8.1 Characteristics to be measured 15
8.2 Method of calculation 15
8.3 Presentation of results 16
9 Tone characteristics 16
9.1 Characteristics to be measured 16
9.2 Measurement conditions 17
9.3 Method of measurement 17
9.4 Presentation of results 18
10 Inter-channel dependency 20
10.1 Characteristics to be measured 20
10.2 Measurement conditions 20
10.3 Method of measurement 21
10.4 Presentation of results 22
11 Spatial non-uniformity 24
11.1 Characteristics to be measured 24
11.2 Measurement conditions 24
11.3 Method of measurement 24
11.4 Presentation of results 25
12 Temporal stability 26
12.1 Short-term stability 26
12.1.1 Characteristics to be measured 26
12.1.2 Measurement conditions 26
12.1.3 Method of measurement 26
12.1.4 Presentation of results 27
12.2 Mid-term stability 28
12.2.1 Characteristics to be measured 28

12.2.2 Measurement conditions 28
12.2.3 Method of measurement 28
12.2.4 Presentation of results 28
13 Surface reflection 29
13.1 Characteristics to be measured 29
13.2 Measurement conditions 29
13.3 Method of measurement 30
13.4 Presentation of results 30
14 Display area ratio characteristics 31
14.1 Characteristics to be measured 31
14.2 Measurement conditions 31
14.3 Method of measurement 31
14.4 Presentation of results 32
Bibliography 33

Figure 1 – Equipment arrangement for non-contact measurements 10
Figure 2 – Equipment arrangement for contact measurements 11
Figure 3 – Size of a colour patch 11
Figure 4 – An example of the spectral radiance distributions $r(\lambda)$, $g(\lambda)$, $b(\lambda)$ 14
Figure 5 – Measured points and interpolated curves 18
Figure 6 – Measurement points for spatial non-uniformity 24
Figure 7 – Example plots for short-term stability 27
Figure 8 – Example plots for mid-term stability 29
Figure 9 – Equipment arrangement 30
Figure 10 – Specification of a white patch 32
Figure 11 – Example plots for the display area ratio characteristics 32

Table 1 – Input data for peak primaries and peak white 14
Table 2 – Example of reporting form for colours in maximum excitations 15
Table 3 – Example of reporting form 16
Table 4 – An example set of basic normalized data for tone characteristics 19
Table 5 – Digital inputs to generate colour patches for measurement of inter-channel dependency 21
Table 6 – Example of normalized tristimulus values (the matrix $\mathbf{A}$) 23
Table 7 – Example of reporting form 26
Table 8 – Example of reporting form 30

INTERNATIONAL ELECTROTECHNICAL COMMISSION

MULTIMEDIA SYSTEMS AND EQUIPMENT – COLOUR MEASUREMENT AND MANAGEMENT –

Part 5: Equipment using plasma display panels

FOREWORD

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

This second edition cancels and replaces the first edition published in 2000. This edition includes the following significant technical changes with respect to the previous edition: Annex A has been deleted as it is no longer relevant.

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

CDV	Report on voting
100/1295/CDV	100/1387/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.

A 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.

INTRODUCTION

A series of methods and parameters for colour measurements and management for use in multimedia systems and equipment is applicable to the assessment of colour production and reproduction. This part of IEC 61966 deals with equipment using plasma display panels (PDP) to display colour images for use in multimedia applications.

The methods of measurement standardized in this part of IEC 61966 are designed to make possible the objective performance assessment and characterization of colour reproduction of PDP displays which accept red – green – blue analogue or digital signals from electrical input terminals and output colour images on PDP display screens. For PDP displays to which analogue signals are applicable, the corresponding digital signals are taken into account. The measured results are intended to be used for the purpose of equipment specific colour control in order to enable colour management in open multimedia systems.

MULTIMEDIA SYSTEMS AND EQUIPMENT – COLOUR MEASUREMENT AND MANAGEMENT –

Part 5: Equipment using plasma display panels

1 Scope

This part of IEC 61966 defines input test signals, measurement conditions, methods of measurement and reporting of the measured data, to be used for colour characterization and colour management of plasma display panels in multimedia systems.

Colour control within equipment is outside the scope of this International Standard. It does not specify limiting values for various parameters.

2 Normative references

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.

IEC 60050-845:1987, *International Electrotechnical Vocabulary (IEV) – Chapter 845: Lighting/ CIE 17.4:1987, International Lighting Vocabulary (joint IEC/CIE publication)*

IEC 61966-3:2000, *Multimedia systems and equipment – Colour measurement and management – Part 3: Equipment using cathode ray tubes*

ISO 5-4:1995, *Photography – Density measurements – Part 4: Geometric conditions for reflection density*

ISO 9241-8:1997, *Ergonomic requirements for office work with visual display terminals (VDTs) – Part 8: Requirements for displayed colours*

ISO/CIE 10526:1999, *CIE standard illuminants for colorimetry*

ISO/CIE 10527:1991, *CIE standard colorimetric observers*

CIE 15:2004, *Colorimetry*