



SLOVENSKI STANDARD
SIST EN 61146-4:1999

01-april-1999

Video cameras (PAL/SECAM/NTSC) - Methods of measurement -- Part 4: Automatic functions of video cameras and camera-recorders (IEC 61146-4:1998)

Video cameras (PAL/SECAM/NTSC) - Methods of measurement -- Part 4: Automatic functions of video cameras and camera-recorders

Videokameras (PAL/SECAM/NTSC) - Meßverfahren -- Teil 4: Automatische Funktionen von Videokameras und Camcordern

Caméras vidéo (PAL/SECAM/NTSC) - Méthodes de mesure -- Partie 4: Fonctions automatiques des caméras video et des caméscopes

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Ta slovenski standard je istoveten z: EN 61146-4:1998

ICS:

33.160.40 Video sistemi Video systems

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ICS 33.160.40

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English version

**Video cameras (PAL/SECAM/NTSC) - Methods of measurement
Part 4: Automatic functions of video cameras and camera-recorders
(IEC 61146-4:1998)**

Caméras vidéo (PAL/SECAM/NTSC)
Méthodes de mesure
Partie 4: Fonctions automatiques des
caméras vidéo et des caméscopes
(CEI 61146-4:1998)

Videokameras (PAL/SECAM/NTSC)
Meßverfahren
Teil 4: Automatische Funktionen von
Videokameras und Camcordern
(IEC 61146-4:1998)

This European Standard was approved by CENELEC on 1998-08-01. 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 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and 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 100C/221/FDIS, future edition 1 of IEC 61146-4, prepared by SC 100C, Audio, video and multimedia subsystems and equipment, 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 61146-4 on 1998-08-01.

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) 1999-05-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2001-05-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annexes A and ZA are normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61146-4:1998 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**

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 61146-1	1994	Video cameras (PAL/SECAM/NTSC) Methods of measurement Part 1: Non-broadcast single-sensor cameras	EN 61146-1	1996
ISO 8341	1989	Photography - Slide projectors and filmstrip projectors - Illumination test	-	-

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**Caméras vidéo (PAL/SECAM/NTSC) –
Méthodes de mesure –**

**Partie 4:
Fonctions automatiques des caméras vidéo
et des caméscopes**

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**Video cameras (PAL/SECAM/NTSC) –
Methods of measurement –**

**Part 4:
Automatic functions of video cameras and
camera-recorders**

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

VIDEO CAMERAS (PAL/SECAM/NTSC) –
METHODS OF MEASUREMENT –

**Part 4: Automatic functions of video cameras
and camera-recorders**

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 cooperation 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.
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- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
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- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61146-4 has been prepared by subcommittee 100C: Audio, video and multimedia subsystems and equipment, 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
100C/221/FDIS	100C/227/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.

Annex A forms an integral part of this standard.

VIDEO CAMERAS (PAL/SECAM/NTSC) – METHODS OF MEASUREMENT –

Part 4: Automatic functions of video cameras and camera-recorders

1 Scope

This part of IEC 61146 applies to the assessment of characteristics of automatic functions which are implemented in colour video cameras and camera-recorders. The performance to be assessed in this standard is limited to automatic functions relating to light input from the lens and to the electronic output from video cameras and the video camera portions of camera-recorders.

This standard defines test patterns, measurement conditions, methods of measurement and the presentation of measured results so as to make possible the comparison of the measurement results.

This standard intends to provide an objective method of measurement for each characteristic of the automatic functions but the results of objective measurements may not correlate well with the subjective assessment of automatic functions.

It does not specify limiting values for the various characteristics related to automatic functions.

2 Normative references

[SIST EN 61146-4:1999](#)

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The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 61146. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 61146 are encouraged to investigate the possibility of applying the most recent editions of the normative documents listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 61146-1:1994, *Video cameras (PAL/SECAM/NTSC) – Methods of measurement – Part 1: Non-broadcast single-sensor cameras*

ISO 8341:1989, *Photography – Slide projectors and filmstrip projectors – Illumination test*

3 Terms and definitions

For the purpose of this part of IEC 61146, the following definitions apply.

3.1

grey scale chart

test chart which has logarithmic grey steps of $\gamma=2,2$ specified in item 1 of annex A of IEC 61146-1