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**Non-broadcast video tape recorders - Methods of measurement -- Part 5: High-band video tape recorders, including those equipped with Y/C video connectors (NTSC/PAL) (IEC 61041-5:1997)**

Non-broadcast video tape recorders - Methods of measurement -- Part 5: High-band video tape recorders, including those equipped with Y/C video connectors (NTSC/PAL)

Videobandgeräte für den Gebrauch außerhalb des Rundfunks - Meßverfahren -- Teil 5: Hi-Band-Videobandgeräte, einschließlich solcher, die mit Y/C-Video-Steckverbindungen ausgerüstet sind (NTSC/PAL) (standards.iteh.ai)

Magnétoscopes hors radiodiffusion - Méthodes de mesure -- Partie 5: Magnétoscopes en bande élargie, y compris ceux équipés de connecteurs Y/C (NTSC/PAL)

**Ta slovenski standard je istoveten z: EN 61041-5:1997**

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**ICS:**

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**en**

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English version

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Y/C-Video-Steckverbindungen  
ausgerüstet sind (NTSC/PAL)  
(IEC 61041-5:1997)

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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.

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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 100B/45/FDIS, future edition 1 of IEC 61041-5, prepared by SC 60B (transformed into SC 100B, Recording, 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 61041-5 on 1997-07-01.

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) 1998-04-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 1998-04-01

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

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### Endorsement notice

The text of the International Standard IEC 61041-5:1997 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 60094-2	1994	Magnetic tape sound recording and reproducing systems Part 2: Calibration tapes	EN 60094-2	1995
IEC 60094-3	1979	Part 3: Methods of measuring the characteristics of recording and reproducing equipment for sound on magnetic tape	EN 60094-3	1996
IEC 60735	1991	Measuring methods for video tape properties	EN 60735	1991
IEC 61105	1991	Reference tapes for video tape recorder systems	EN 61105	1993
ITU-R Recommendation 471-1	1990	Nomenclature and description of colour bar signals	-	-
EIA RS-189A	1976	Encoded colour bar signal	-	-

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**Magnétoscopes hors radiodiffusion –  
Méthodes de mesure –**

**Partie 5:**

**Magnétoscopes en bande élargie, y compris  
ceux équipés de connecteurs Y/C (NTSC/PAL)**

(standards.iteh.ai)

**Non-broadcast video tape recorders –  
Methods of measurement –**

**Part 5:**

**High-band video tape recorders, including those  
equipped with Y/C video connectors (NTSC/PAL)**

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Commission Electrotechnique Internationale  
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Международная Электротехническая Комиссия

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## CONTENTS

	Page
FOREWORD .....	7
INTRODUCTION .....	9

### SECTION 1: GENERAL REQUIREMENTS

#### Clause

1.1	Scope and object .....	11
1.2	Normative references .....	11
1.3	Conditions of measurement .....	13
1.4	Definitions .....	15

### SECTION 2: VIDEO CHARACTERISTICS, LUMINANCE SIGNAL (NTSC/PAL)

2.1	Luminance signal-to-noise ratio .....	17
2.2	Horizontal resolution .....	19
2.3	Vertically correlated waveform distortion (waveform distortion of vertical luminance signal) .....	21
2.4	Diagonal resolution .....	23
2.5	Frequency characteristics of diagonal resolution (i) (frequency response in two-dimensional frequency domain) .....	25
2.6	Frequency characteristics of diagonal resolution (ii) (frequency response in Y/C separation system) .....	27

### SECTION 3: VIDEO CHARACTERISTICS, CHROMINANCE SIGNAL (NTSC/PAL)

3.1	Signal-to-noise ratio .....	29
3.2	Vertical picture displacement .....	29
3.3	Vertical picture distortion (waveform correlation distortion of chrominance signal) .....	31
3.4	Flicker .....	33

### SECTION 4: MUTUAL CHARACTERISTICS, CHROMINANCE/LUMINANCE SIGNALS (NTSC/PAL)

4.1	Luminance signal separation (general) .....	35
4.2	Luminance signal separation at colour change points .....	35
4.3	Chrominance signal separation .....	37
4.4	Crosstalk in electromagnetic conversion system .....	39



## Figures

1	Composite video test signal .....	41
2	S luminance test signal .....	41
3	S chrominance test signal .....	41
4	Block diagram for composite video input .....	41
5	Block diagram for S video input .....	43
6	Composite video test signal .....	43
7	Block diagram for composite video signal.....	43
8	Block diagram for S video signal.....	43
9	Composite video test signal .....	45
10	Waveform of overshoot.....	45
11	Waveform of pre-shoot .....	45
12	Waveform of smear .....	45
13	Waveform of rise and fall times .....	45
14	Waveform associated with reproduction of 1H /2H /3H pulses.....	45
15	Test signal on a TV monitor .....	47
16	Waveform for composite video signal.....	47
17	Waveform for S video input.....	47
18	Test signal on a TV monitor .....	47
19	Waveform identifying measurement points .....	49
20	Multiburst test signal .....	49
21	Measurement of burst levels .....	49
22	Composite video test signal .....	49
23	S luminance test signal .....	51
24	S chrominance test signal .....	51
25	Block diagram for composite video input .....	51
26	Block diagram for S video input .....	51
27	Composite colour window test signal .....	51
28	S luminance window test signal .....	53
29	S chrominance window test signal .....	53
30	Block diagram for composite video input .....	53
31	Block diagram for S video input .....	53
32	Waveform of S luminance signal .....	53
33	Waveform of S chrominance signal at line 0 (example measurement 1) .....	55
34	Waveform of S chrominance signal at line +1/2 (example measurement 2) .....	55
35	Waveform of S chrominance signal at line +1 (example measurement 3) .....	55
36	Measurement of chrominance signal level.....	57
37	Block diagram for measurement.....	57
38	Example of colour vector measurement .....	57
39	Block diagram for measurement.....	57
40	Measurement of signal levels.....	59
41	Test signal .....	59
42	Measurement of signal levels.....	59
43	Multiburst test signal .....	59
44	Measurement of signal levels.....	59
45	Video frequency sweep test signal.....	61
46	Block diagram for measurement.....	61
47	Measurement of signal levels .....	61

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**NON-BROADCAST VIDEO TAPE RECORDERS –  
METHODS OF MEASUREMENT –****Part 5: High-band video tape recorders, including those equipped  
with Y/C video connectors (NTSC/PAL)**

## 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 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.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 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 61041-5 has been prepared by subcommittee 60B: Video recording, then by subcommittee 100B: Recording, 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
100B/45/FDIS	100B/65/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.

IEC 61041 consists of the following parts with the general title of: Non-broadcast video tape recorders – Methods of measurement:

Part 1: 1990, General video (NTSC/PAL) and audio (longitudinal characteristics)

Part 2: 1994, Video characteristics chrominance SECAM

Part 3: 1993, Audio characteristics for FM recording

Part 4: 1997, Calibration tape (NTSC/PAL/SECAM)

Part 5: 1997, High-band video tape recorders, including those equipped with Y/C video connectors (NTSC/PAL)

## INTRODUCTION

This part of IEC 61041 has been prepared for the reasons given below.

Part 1 of IEC 61041 applies to non-broadcast video tape recorders which record the video signal within the video bandpass frequencies of home-use TV receivers. This part of IEC 61041, however, applies to other types of non-broadcast video tape recorders (hereinafter referred to as high-band video tape recorders) which record the video signal with greater than the normal video bandpass frequencies, for high resolution video recording.

This part of IEC 61041 is to be referred to particularly when characteristics of the video and audio signals recorded and reproduced using high-band video tape recorders are to be checked and measured.

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## NON-BROADCAST VIDEO TAPE RECORDERS – METHODS OF MEASUREMENT –

### Part 5: High-band video tape recorders, including those equipped with Y/C video connectors (NTSC/PAL)

#### Section 1: General requirements

##### 1.1 Scope and object

This part of IEC 61041 specifies the general requirements for methods of measurement for high-band video tape recorders, including those equipped with Y/C video connector(s) (NTSC/PAL).

This part of IEC 61041 is applicable both to machines using normal input/output connectors for the measurement of the composite video signal, and to machines using the Y/C video connector(s) (herein after referred to as S video connectors) for the measurement of the Y/C separated video signal.

This part of IEC 61041 is applicable when characteristics of the video and audio signals recorded and reproduced using high-band video tape recorders are to be checked and measured.

The object of this part is to describe the methods of measurement for non-broadcast video tape recorders.

##### 1.2 Normative references

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The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 61041. 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 61041 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60094-2: 1994, *Magnetic tape sound recording and reproducing systems – Part 2: Calibration tapes*

IEC 60094-3: 1979, *Magnetic tape sound recording and reproducing systems – Part 3: Methods of measuring the characteristics of recording and reproducing equipment for sound on magnetic tape*

IEC 60735: 1991, *Measuring methods for video tape properties*

IEC 61105:1991, *Reference tapes for video tape recorder systems*

ITU-R Recommendation 471-1: 1990, *Nomenclature and description of colour bar signals (Vol. X1-1)*

EIA RS-189A: 1976, *Encoded colour bar signal*