

BRITISH STANDARD

This Standard is confirmed.
See the BSI Catalogue for details.
January 1998

**BS 7434 :
Part 1 : 1991
IEC 1041-1 :
1990**

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

**Part 1. General video (NTSC/PAL) and
audio (longitudinal) characteristics**

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Electronic Equipment Standards Policy Committee (EEL/-) to Technical Committee EEL/22, upon which the following bodies were represented:

- Association of Professional Recording Services Ltd.
- Audio Engineering Society
- British Broadcasting Corporation
- British Kinematograph, Sound and Television Society
- British Tape Industry Association
- Independent Broadcasting Authority
- Independent Television Association
- National Council for Educational Technology (NCET)
- Royal Photographic Society
- Royal Television Society
- Sound and Communication Industries Federation

This British Standard, having been prepared under the direction of the Electronic Equipment Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 30 April 1991

© BSI 1991

The following BSI references relate to the work on this standard:
Committee reference EEL/22
Draft for comment 88/23917 DC

ISBN 0 580 19525 2

Amendments issued since publication

Amd. No.	Date	Text affected

Amendment No. 1
published and effective from 15 June 1993
to BS 7434 : Part 1 : 1991

Methods of measurement for non-broadcast
video tape recorders
Part 1. General video (NTSC/PAL) and audio
(longitudinal) characteristics

NOTE. This amendment is being published to effect the implementation of CENELEC HD 619 S1.

Revised text

AMD 7678
June 1993

Front cover

Underneath the title insert the following:

'(Implementation of CENELEC HD 619 S1)'.

AMD 7678
June 1993

Contents

Delete 'Annex' and substitute 'Annexes'.

Insert the following new annexes after the current annex list.

'ZA (informative) – Other international publications quoted in this standard with the references of the relevant European publications

NA (informative) – Cross-references **Inside back cover.'**

AMD 7678
June 1993

National foreword

Delete the national foreword and insert the following new national foreword.

'This Part of BS 7434 has been prepared under the direction of the Electronic Equipment Standards Policy Committee and is identical with IEC 1041-1 : 1990 'Non-broadcast video tape recorders — Methods of measurement Part 1 : General video (NTSC/PAL) and audio (longitudinal) characteristics', published by the International Electrotechnical Commission (IEC) and implements Harmonization Document HD 619 S1 published by the European Committee for Electrotechnical Standardization (CENELEC).

Copies of CCIR documents may be purchased from BSI Standards, Linford Wood, Milton Keynes, MK14 6LE.

Compliance with a British Standard does not of itself confer immunity from legal obligations.'

AMD 7678
June 1993

New HD title page and foreword

Insert the attached new HD title page and foreword immediately after the national foreword.

AMD 7678
June 1993

New annex

At the end of the text insert the attached new annex ZA.

AMD 7678
June 1993

Publication(s) referred to

On the inside back cover delete the title and the text 'See national foreword.' and substitute the following.

National annex NA (informative)

Cross-references

Publications referred to

IEC 94-3 : 1979

IEC 386 : 1972

IEC 756 : 1991

IEC 883 : 1987

Corresponding British Standard

BS 6288 Magnetic tape sound recording and reproducing systems

Part 3 : 1990 Methods of measuring the characteristics of recording and reproducing equipment for sound on magnetic tape

BS 4847 : 1989 Method of measurement of speed fluctuations in sound recording and reproducing equipment

BS 6411 : 1991 Specification for non-broadcast video tape recorders. Time base stability

BS 7595 : 1992 Measuring method for chrominance signal-to-random noise ratio for video tape recorders

UDC 621.397.452:621.317.083

Descriptors: Recorders, video recording, tape recorders, measurements, characteristics, video signal, luminance, chrominance

English version

Non-broadcast video tape recorders – Methods of
measurement
Part 1: General video (NTSC/PAL) and audio (longitudinal)
characteristics
(IEC 1041-1 : 1990)

Magnétoscopes hors radiodiffusion – Méthodes
de mesure
Partie 1: Généralités, caractéristiques vidéo
(NTSC/PAL) et audio (enregistrement
longitudinal)
(CEI 1041-1 : 1990)

Videobandgeräte für den Gebrauch außerhalb
des Rundfunks – Meßverfahren
Teil 1: Allgemeine Eigenschaften von Video
(NTSC/PAL) und Ton
(Längsaufzeichnung)
(IEC 1041-1 : 1990)

This Harmonization Document was approved by CENELEC on 1992-09-15. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, 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 CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 1041-1 : 1990 could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as Harmonization Document.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as HD 619 S1 on 15 September 1992.

The following dates were fixed:

- latest date of announcement
of the HD at national level (doa) 1993-03-01
- latest date of publication of
a harmonized national standard (dop) 1993-09-01
- latest date of withdrawal of
conflicting national standards (dow) 1993-09-01

Annexes designated 'normative' are part of the body of the standard. In this standard, annex ZA is normative.

Annex ZA

(normative)

Other international publications quoted in this standard with the references of the relevant European publications

When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC publication	Date	Title	EN/HD	Date
94-3	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	HD 311.3 S2*	1989
386	1972	Method of measurement of speed fluctuations in sound recording and reproducing equipment	—	—
756	1983	Time base stability of non-broadcast video recorders	HD 458 S1	1985
883	1987	Measuring method for chrominance signal-to-random noise ratio for video tape recorders	HD 527 S1	1989

* Includes amendments A1 : 1980 + A2 : 1988 to IEC 94-3

Amendment No. 2
published and effective from 15 November 1995
to BS 7434 : Part 1 : 1991

Methods of measurement for non-broadcast video tape
recorders
Part 1. General video (NTSC/PAL) and audio (longitudinal)
characteristics

NOTE. The European Committee for Electrotechnical Standardization (CENELEC) has accepted IEC 1041-1 : 1990 as a European Standard designated as EN 61041-1 : 1995. This amendment implements EN 61041-1 : 1995 as a British Standard in the BS EN series.

Implementation of the European Standard

Front cover

Delete the outside front cover and substitute the attached.

AMD 8872/November 1995

National foreword (as amended by Amendment No.1)

Delete the national foreword and substitute the following new national foreword.

This British Standard has been prepared by Technical Committee EPL/60 and is the English language version of EN 61041-1 : 1995 *Non-broadcast video tape recorders. Methods of measurement Part 1: General video (NTSC/PAL) and audio (longitudinal) characteristics*, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 1041-1 : 1990, published by the International Electrotechnical Commission (IEC). The designation as BS 7434 : Part 1 has been retained for ease of reference to other Parts of the BS 7434 series.

AMD 8872/November 1995

HD title page and foreword

Delete the HD title page and foreword and substitute the attached EN title page and foreword page.

AMD 8872/November 1995

New annex ZA

At the end of the text of annex A, insert the attached new annex ZA.

AMD 8872/November 1995

Non-broadcast video tape recorders — Methods of measurement

Part 1. General video (NTSC/PAL) and audio (longitudinal) characteristics

The European Standard EN 61041-1 : 1995 has the status of a
British Standard

UDC 621.397.452 : 621.317.083

NO COPYING IN ANY FORM WITHOUT WRITTEN PERMISSION FROM BSI



Document Sharing Hub

English version

Non-broadcast video tape recorders
Methods of measurement
Part 1: General video (NTSC/PAL) and audio (longitudinal)
characteristics

(IEC 1041-1 : 1990)

Magnétoscopes hors radiodiffusion
Méthodes de mesure
Partie 1: Généralités, caractéristiques vidéo
(NTSC/PAL) et audio (enregistrement longitudinal)
(CEI 1041-1 : 1990)

Videobandgeräte für den Gebrauch
außerhalb des Rundfunks Meßverfahren
Teil 1: Allgemeine Eigenschaften von Video
(NTSC/PAL) und Ton (Längsaufzeichnung)
(IEC 1041-1 : 1990)

This European Standard was approved by CENELEC on 1995-05-15. 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, 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 the International Standard IEC 1041-1 : 1990, prepared by SC 60B, Video recording, of IEC TC 60, Recording, was approved by CENELEC as HD 619 S1 on 1992-09-15.

This Harmonization Document was submitted to the formal vote for conversion into a European Standard and was approved by CENELEC as EN 61041-1 on 1995-05-15.

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) 1996-07-01

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.

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 the international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 94-3	1979	<i>Magnetic tape sound recording and reproducing systems Part 3: Methods of measuring the characteristics of recording and reproducing equipment for sound on magnetic tape</i>		
+ A2	1988		HD 311.3 S2 ¹⁾	1989
IEC 386	1972	<i>Method of measurement of speed fluctuations in sound recording and reproducing equipment</i>	—	—
IEC 756	1983	<i>Time base stability of non-broadcast video recorders</i>	HD 458 S1 ²⁾	1985
IEC 883	1987	<i>Measuring method for chrominance signal-to-random noise ratio for video tape recorders</i>	HD 527 S1	1989

¹⁾ HD 311.3 S2 also includes A1 : 1980.

²⁾ HD 458 S1 is superseded by EN 60756 : 1993, which is based on IEC 756 : 1991.