

Magnetic tape sound recording and reproducing systems —

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

The European Standard EN 60094-3:1996 including amendment A3:1996 has the status of a British Standard

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**BS 6288-3:
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*Incorporating
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no. 1:1996*

IEC 94-3:1979

*Incorporating
amendment 1:1980,
amendment 2:1988
and*

*amendment 3:1996
BS 6288-3:1990*

Renumbered

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:

- British Broadcasting Corporation
- British Kinematograph, Sound and Television Society
- Council for Educational Technology for the United Kingdom
- Electronic Engineering Association
- Independent Broadcasting Authority
- Independent Television Association
- Sound and Communication Industries Federation

The following bodies were also represented in the drafting of this standard, through subcommittees and panels:

- Association of Professional Recording Studios
- Audio Engineering Society
- British Tape Industry Association
- Royal Photographic Society

This British Standard, having been prepared under the direction of the Electronic Equipment Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 31 May 1990

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Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
Section 1. Introduction	
1 Scope	3
2 Object	3
Section 2. General notes on measurements	
3 Information to be supplied by manufacturer of equipment	3
4 Identification	3
5 Technical description	3
6 Mechanical characteristics	3
7 Electrical characteristics	5
8 Rated conditions	5
9 Performance claims	7
Section 3. Precautions to be taken during measurements	
10 Conditions of measurement	9
Section 4. Methods of measurement	
11 Measurement of mechanical parameters	10
12 Measurement of electrical parameters	14
Annex ZA (normative) Normative references to international publications with their corresponding European publications	22
Publications referred to	Inside back cover

National foreword

This British Standard has been prepared by Subcommittee EPL/100/2 (formerly EEL/22) and is the English language version of EN 60094-3:1996 *Magnetic tape sound recording and reproducing systems — Part 3 Methods of measuring the characteristics of recording and reproducing equipment for sound on magnetic tape*, including amendment A3:1996, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 94-3:1979 including Amendment 1:1980, Amendment 2:1988 and Amendment 3:1996, published by the International Electrotechnical Commission (IEC). Agreement has been given to retain the cross-reference of this standard as Part 3 of the BS 6288 series for ease of reference in relation to other Parts of the series. This standard supersedes BS 6288-3:1982 which has been withdrawn.

Additional information. The note to 6.3 contains a mandatory statement and should therefore be regarded as part of the main text.

BS 6288 consists currently of the following Parts:

Part 1 (BS EN 60094-1)	<i>Specification for general conditions and requirements</i>
Part 2 (BS EN 60094-2)	<i>Calibration tapes</i>
Part 3 (BS EN 60094-3)	<i>Methods of measuring the characteristics of recording and reproducing equipment for sound on magnetic tape</i>
Part 4 (BS EN 60094-4)	<i>Mechanical magnetic tape properties</i>
Part 5 (BS EN 60094-5)	<i>Electrical magnetic tape properties</i>
Part 6	<i>Specification for reel-to-reel systems</i>
Part 7 (BS EN 60094-7)	<i>Specification for cassettes for commercial tape records and domestic use</i>
Part 8	<i>Specification for eight track magnetic tape cartridge for commercial tape records and domestic use</i>
Part 9	<i>Specification for magnetic tape cartridge for professional use</i>
Part 10	<i>Specification for time and address codes</i>
Part 11	<i>Guide to and address code for compact cassettes</i>

Cross-references

Publication referred to	Corresponding British Standard
	BS EN 60094 <i>Magnetic tape sound recording and reproducing systems</i>
EN 60094-1:1993 (IEC 94-1:1981)	BS EN 60094-1:1994 <i>Specification for general conditions and requirements</i>
EN 60094-4:1994 (IEC 94-4:1986)	BS EN 60094-4:1994 (BS 6288-4:1994) <i>Mechanical magnetic tape properties</i>
EN 60094-5:1993 (IEC 94-5:1988)	BS EN 60094-5:1994 <i>Specification for electrical magnetic tape properties</i>
EN 60651:1994 (IEC 651:1979)	BS EN 60651:1994 <i>Specification for sound level meters</i>
	BS 6840 <i>Sound system equipment</i>
IEC 268-1:1985	Part 1:1987 <i>Methods for specifying and measuring general characteristics used for equipment performance</i>
IEC 268-3:1988	Part 3:1992 <i>Methods for specifying and measuring the characteristics of sound system amplifiers</i>

Publication referred to	Corresponding British Standard
IEC 268-15:1987	Part 15:1992 <i>Specification for matching values for the interconnection of sound system components</i>
IEC 386:1972	BS 4847:1989 <i>Method of measurement of speed fluctuations in sound recording and reproducing equipment</i>

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the EN title page, pages 2 to 22, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

English version

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

(includes amendment A3:1996)
(IEC 94-3:1979 + A1:1980 + A2:1988 + A3:1996)

Systèmes d'enregistrement et de lecture du son
sur bandes magnétiques
Partie 3: Méthodes de mesure des
caractéristiques des matériels d'enregistrement
et de lecture du son sur bandes magnétiques
(inclut l'amendement A3:1996)
(CEI 94-3:1979 + A1:1980 + A2:1988 +
A3:1996)

Systeme für Tonaufzeichnung und -wiedergabe
auf Magnetband
Teil 3: Meßverfahren zur Bestimmung der
Eigenschaften von Aufnahme- und
Wiedergabegeräten
(enthält Änderung A3:1996)
(IEC 94-3:1979 + A1:1980 + A2:1988 +
A3:1996)

This European Standard was approved by CENELEC on 1993-12-08; Amendment A3 was approved by CENELEC on 1996-03-05. 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 94-3:1979 + A1:1980 + A2:1988, prepared by SC 60A (transformed into SC 100B, Recording, of IEC TC 100, Audio, video and multimedia systems and equipment), was approved by CENELEC as HD 311.3 S2:1989 on 1989-08-01.

As a consequence of the IEC-CENELEC Agreement, this Harmonization Document was submitted to the formal vote for conversion into a European Standard and was approved by CENELEC as EN 60094-3 on 1993-12-08.

The following date was 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) 1996-12-01

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.

Foreword to amendment A3

The text of document 60A/177/FDIS, future amendment 3 to IEC 94-3:1979, prepared by SC 60A (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 amendment A3 to EN 60094-3:1996 on 1996-03-05.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1996-12-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1996-12-01

Section 1. Introduction

1 Scope

This standard applies to recording and reproducing equipment for sound on magnetic tape (reel-to-reel, cassette and cartridge) for both professional and domestic applications, and will be referred to as “equipment” throughout this standard.

This standard does not apply to special purpose equipment such as high speed duplicators, artificial reverberation recorders or dictation machines not employing the reel-to-reel, cassette or cartridge principle. This standard excludes all aspects of safety, which are to be found in IEC Publication 65, Safety Requirements for Mains Operated Electronic and Related Apparatus for Household and Similar General Use. It also excludes magnetic tape properties, which are to be found in IEC Publications 94-4 and 94-5.

2 Object

The object of this standard is to list and define parameters affecting the performance of recording and reproducing equipment for sound on magnetic tape, and to establish conditions and agreed methods of measurement of these parameters.

Section 2. General notes on measurements

3 Information to be supplied by manufacturer of equipment

The information required is listed in this section. It falls into two distinct categories:

- mandatory information to be clearly shown on the equipment, indicated by an “A” on the right-hand side of the page;
- optional information to be given separately, e.g. in an instruction manual relating to and supplied with the equipment.

It is essential that mandatory information outside the scope of this standard (e.g. aspects of safety — IEC Publication 65) shall also be given in the correct location.

4 Identification

Name of manufacturer or supplier	A
Country of manufacture	
Model or type number (variants, if any, to be stated)	A

5 Technical description

All parameters in this clause are subject to verification only. For the purpose of this clause, an “adjustable” control shall be deemed to be one that is readily accessible to the user when the equipment is in its intended use. Its adjustment shall necessitate neither relocation of the equipment nor the dismantling of any of its parts.

6 Mechanical characteristics

6.1 Space and support requirements during operation of equipment

<i>Characteristics</i>	<i>Units</i>
Minimum height	mm
Minimum width	mm
Minimum depth	mm
Operating position	horizontal, vertical or other
Total mass	kg