

Digital audio tape cassette system (DAT) —

Part 5: DAT for professional use

The European Standard EN 61119-5:1995 has the status of a British Standard

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee EPL/60, Recording, upon which the following bodies were represented:

- Association of Professional Recording Services Limited
- Audio Engineering Society
- British Broadcasting Corporation
- British Kinematograph, Sound and Television Society
- British Tape Industry Association
- Federation of the Electronics Industry
- ITV Association (ITVA)
- National Council for Educational Technology (NCET)
- Royal Photographic Society
- Royal Television Society

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 July 1995

© BSI 10-1999

The following BSI references relate to the work on this standard:
Committee reference EPL/60
Draft for comment 89/32982 DC

ISBN 0 580 24319 2

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
Foreword	2
Text of EN 61119-5	3
List of references	Inside back cover

National foreword

This British Standard has been prepared by Technical Committee EPL/60 and is the English language version of EN 61119-5:1995 *Digital audio tape cassette system — Part 5: DAT for professional use*, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 1119-5:1993, published by the International Electrotechnical Commission (IEC).

BS EN 61119 consists of the following Parts:

- *Part 1: Dimensions and characteristics;*
- *Part 2: DAT calibration tape;*
- *Part 3: DAT tape properties;*
- *Part 4: Character pack format;*
- *Part 5: DAT for professional use;*
- *Part 6: Serial copy management system;*
- *Part 7: DAT logo application rule¹⁾.*

Cross-references

International Standard	Corresponding British Standard
EN 60958:1990 (IEC 958:1989)	BS EN 60958:1995 <i>Specification for digital audio interface</i>
EN 61119-1:1992 (IEC 1119-1:1992)	BS EN 61119 <i>Digital audio tape cassette system (DAT)</i> Part 1:1994 <i>Dimensions and characteristics</i>
IEC 461:1986	BS 6865:1987 <i>Specification for time and control codes for video tape recorders</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 and ii, the EN title page, pages 2 to 14, 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.

¹⁾ In preparation.

ICS 33.160.30

Descriptors: Sound recording, digital recording, data recording devices, audiocassettes, magnetic tapes, recording tracks, layout, codification, track formats, characteristics

English version

Digital audio tape cassette system (DAT) Part 5: DAT for professional use

(IEC 1119-5:1993)

Système audionumérique à cassette (DAT)
Partie 5: DAT pour usage professionnel
(CEI 1119-5:1993)

Digitales Tonband-Kassetten-System (DAT)
Teil 5: DAT für professionelle Anwendung
(IEC 1119-5:1993)

This European Standard was approved by CENELEC on 1994-12-06. 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

© 1995 Copyright reserved to CENELEC members

Foreword

The text of the International Standard IEC 1119-5:1993, prepared by SC 60A, Sound recording, of IEC TC 60, Recording, was submitted to the formal vote and was approved by CENELEC as EN 61119-5 on 1994-12-06 without any modification.

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) 1995-12-15
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1995-12-15

Annexes designated “normative” are part of the body of the standard. Annexes designated “informative” are given for information only. In this standard, Annex ZA is normative and Annex A is informative. Annex ZA has been added by CENELEC.

Contents

	Page
Foreword	2
1 Scope and object	3
2 Normative references	3
3 Description of the system	3
6 Track configuration and pattern	3
6.1 Track configuration	3
6.1.1 Tape speed and number of tracks per second	3
11 Audio encoding	3
11.1 Mode application	3
11.1.1 Audio encoding mode	3
11.1.2 System application	3
11.2 Source encoding	3
11.2.1 Pre-emphasis	3
11.2.2 Number of audio channels	3
11.2.3 Sampling frequency	4
11.2.4 Sampling timing	4
11.2.5 Quantization	4
11.3 Word to symbol conversion	4
11.3.1 Audio data word	4
11.3.2 48k mode, 44k mode and 32k mode	4
11.4 Interleave format	4
11.4.1 48k mode, 44k mode and 32k mode	4
12 Subcode encoding for audio use	5
12.1 Subcode in main ID	5
12.1.1 Bit assignment of ID1 to ID7	5
12.3 Subcode in subdata	5
12.3.4 Professional time and control code recording	5
12.3.4.1 Pro R Time pack	6
12.3.4.2 Pro binary pack	11
12.3.4.3 Alignment of Pro DAT time and control code to audio signal	13
12.4 Subcode in main data	13
12.5 Application rules of subcode for pre-recorded tape	13
Annex A (informative) Advice for the professional applications of DAT	14
Annex ZA (normative) Other international publications quoted in this standard with the references of the relevant European publications	14