



SLOVENSKI STANDARD
SIST EN 61119-1:1999

01-april-1999

**Digital audio tape cassette system (DAT) -- Part 1: Dimensions and characteristics
(IEC 61119-1:1992)**

Digital audio tape cassette system (DAT) -- Part 1: Dimensions and characteristics

Digitales Tonband-Kassetten-System -- Teil 1: Maße und Kennwerte

Système audionumérique à cassette (DAT) -- Partie 1: Dimensions et caractéristiques

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Ta slovenski standard je istoveten z: EN 61119-1:1994

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ENGLISH VERSION

Digital audio tape cassette system (DAT)
Part 1: Dimensions and characteristics
(IEC 1119-1:1992)

Système audionumérique à
cassette (DAT)
Partie 1: Dimensions et
caractéristiques
(CEI 1119-1:1992)

Digitales
Tonband-Kassetten-System
Teil 1: Maße und
Kennwerte
(IEC 1119-1:1992)

This European Standard was approved by CENELEC on 1994-05-15.
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.

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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 CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 1119-1:1992 could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as European Standard.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as EN 61119-1 on 15 May 1994.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1995-03-15
- latest date of withdrawal of conflicting national standards (dow) 1995-03-15

Annexes designated "normative" are part of the body of the standard. Annexes designated "informative" are given only for information. In this standard, annexes A, B and ZA are normative and annexes C and D are informative.

ENDORSEMENT NOTICE

The text of the International Standard IEC 1119-1:1992 was approved by CENELEC as a European Standard without any modification.

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD
WITH THE REFERENCES OF THE RELEVANT 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.

NOTE : 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 ----
268-11	1987	Sound system equipment - Part 11: Application of connectors for the interconnection of sound system components	HD 483.11 S3*	1993
268-12	1987	Part 12: Application of connectors for broadcast and similar use	HD 483.12 S2*	1993
268-15	1987	Part 15: Preferred matching values for the interconnection of sound system components	HD 483.15 S4*	1992
958	1989	Digital audio interface	EN 60958	1990
1119-2	1991	Digital audio tape cassette system (DAT) Part 2: DAT calibration tape	EN 61119-2	1994
1119-3	1992	Part 3: DAT tape properties	EN 61119-3	1994
1119-4	-	Part 4: Method of measurement for DAT recorder (under consideration)	-	-
1119-5	1993	Part 5: DAT for professional use	-	-

Other publication:

ISO 3901:1986 - Documentation - International standard recording code (ISRC)

* HD 483.11 S3 includes A1:1989 + A2:1991 to IEC 268-11
HD 483.12 S2 includes A1:1991 to IEC 268-12
HD 483.15 S4 includes A1:1989 + A2:1990 + A3:1991 to IEC 268-15

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Partie 1:
Dimensions et caractéristiques

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DIGITAL AUDIO TAPE CASSETTE SYSTEM (DAT)

Part 1: Dimensions and characteristics

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

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This International Standard IEC 1119-1 has been prepared by Sub-Committee 60A: Sound recording, of IEC Technical Committee No. 60: Recording.

The text of this standard is based on the following documents:

DIS	Report on Voting
60A(CO)130	60A(CO)135

Full information on the voting for the approval of this standard can be found in the Voting Report indicated in the above table.

Annexes A and B form an integral part of this standard.

Annexes C and D are for information only.

INTRODUCTION

The IEC draws attention to the fact that it is probable that the specifications contained in this standard are the subject of one or more patents.

The IEC has no precise information on the holders of such patents and cannot supply further details, but it is expected that the holders of such patents will be prepared to grant licences under reasonable and non-discriminatory terms.

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DIGITAL AUDIO TAPE CASSETTE SYSTEM (DAT)

Part 1: Dimensions and characteristics

1 Scope and object

This part of IEC 1119 is applicable to the digital audio tape (DAT) cassette system that records and/or plays back digital information such as PCM encoded audio and/or other data.

This part defines those parameters that affect the compatibility between cassettes and the associated tape recorders. It is also intended as a reference for manufacturers producing cassettes and/or tape recorders which are intended to conform with the system described in this part.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 1119. 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 1119 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.

[SIST EN 61119-1:1999](https://standards.iteh.ai/catalog/standards/sist/c33a1dee-797a-43c5-931a-1119-1)

[https://standards.iteh.ai/catalog/standards/sist/c33a1dee-797a-43c5-931a-](https://standards.iteh.ai/catalog/standards/sist/c33a1dee-797a-43c5-931a-268-11)

IEC 268-11: 1987, *Sound system equipment - Part 11: Application of connectors for the interconnection of sound system components*

IEC 268-12: 1987, *Sound system equipment - Part 12: Application of connectors for broadcast and similar use*

IEC 268-15: 1987, *Sound system equipment - Part 15: Preferred matching values for the interconnection of sound system components*

IEC 958: 1989, *Digital audio interface*

IEC 1119-2: 1991, *Digital audio tape cassette system (DAT) - Part 2: DAT calibration tape*

IEC 1119-3: 1992, *Digital audio tape cassette system (DAT) - Part 3: DAT tape properties*

IEC 1119-4: 199x, *Digital audio tape cassette system (DAT) - Part 4: Method of measurement for DAT recorder (under consideration)*

IEC 1119-5: 199x, *Digital audio tape cassette system (DAT) - Part 5: DAT for professional use (under consideration)*

ISO 3901: 1986, *Documentation - International standard recording code (ISRC)*

3 Description of the system

The information carrier is a magnetic tape of 3,81 mm width wound on flangeless hubs which are located in a cassette containing a slider and a lid to protect the tape from accidental damages. The tape is of the metal powder type or its equivalent. The digital information is recorded using the helical scanning principle and can be erased by overwriting. The digital information is read by magnetic heads using an automatic track finding (ATF) scheme to find and follow tracks. Two track widths and three tape speeds are defined.

It is possible to record sub code information in a main data area, either with or without audio signals.

4 Test conditions

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Tests and measurements made on the system to verify conformity with the provisions of this part of IEC 1119 shall be carried out under the following conditions:

[SIST EN 61119-1:1999](https://standards.iteh.ai/catalog/standards/sist/c33a1dee-797a-43c5-931a-a202c0a32008/sist-en-61119-1-1999)

[https://standards.iteh.ai/catalog/standards/sist/c33a1dee-797a-43c5-931a-](https://standards.iteh.ai/catalog/standards/sist/c33a1dee-797a-43c5-931a-a202c0a32008/sist-en-61119-1-1999)

- Temperature: [20 °C ± 2 °C](https://standards.iteh.ai/catalog/standards/sist/c33a1dee-797a-43c5-931a-a202c0a32008/sist-en-61119-1-1999)
- Relative humidity: 40 % to 60 %
- Barometric pressure: 86 kPa to 106 kPa
- Conditioning before testing: 24 h

5 Mechanical parameters

5.1 Cassette

5.1.1 Dimensions and tolerances

The cassette dimensions and tolerances are specified in figures 2 to 11 on pages 29 to 43.

In these figures, use is made of reference datum planes which are presented in figure 7, page 39.

The Z-datum plane is defined by the datum areas A, B and C. The X-datum plane is defined through the centres of the positioning holes in the datum areas A and B, perpendicular to plane Z. The Y-datum is defined through the centre of the positioning hole in area A, perpendicular to planes Z and X.