

SLOVENSKI STANDARD

SIST EN 61834-8:2003

01-december-2003

Recording - Helical-scan digital video cassette recording system using 6,35 mm magnetic tape for consumer use (525-60, 625-50, 1125-60 and 1250-50 systems) - Part 8: PALplus format for the 625-50 system (IEC 61834-8:2001)

Recording - Helical-scan digital video cassette recording system using 6,35 mm magnetic tape for consumer use (525-60, 625-50, 1125-60 and 1250-50 systems) -- Part 8: PALplus format for the 625-50 system

Aufzeichnungstechnik - Videokassettensystem mit digitaler Schrägspuraufzeichnung auf Magnetband 6,35 mm für den Heimgebrauch (Systeme 525-60, 625-50, 1125-60, 1250-50) -- Teil 8: PALplus-Format für Systeme 625-50

[SIST EN 61834-8:2003](https://standards.iteh.ai/catalog/standards/sist/d257f317-a857-4dcf-adb1-3a1e10000000/sist-en-61834-8-2003)

Enregistrement - Système de magnétoscope numérique à cassette à balayage hélicoïdal utilisant la bande magnétique de 6,35 mm, destiné au grand public (systèmes 525-60, 625-50, 1125-60 et 1250-50) -- Partie 8: Format PALplus pour le système 625-50

Ta slovenski standard je istoveten z: EN 61834-8:2001

ICS:

33.160.40 Video sistemi Video systems

SIST EN 61834-8:2003

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EUROPEAN STANDARD

EN 61834-8

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2001

ICS 33.160.40

English version

Recording –
Helical-scan digital video cassette recording system
using 6,35 mm magnetic tape for consumer use
(525-60, 625-50, 1125-60 and 1250-50 systems)
Part 8: PALplus format for the 625-50 system
(IEC 61834-8:2001)

Enregistrement –

Système de magnétoscope numérique
à cassette à balayage hélicoïdal utilisant
la bande magnétique de 6,35 mm,
destiné au grand public (systèmes
525-60, 625-50, 1125-60 et 1250-50)

Partie 8: Format PALplus pour le système
625-50
(CEI 61834-8:2001)

Aufzeichnungstechnik -

Videokassettensystem mit digitaler
Schrägschraufzeichnung auf Magnetband
6,35 mm für den Heimgebrauch
(Systeme 525-60, 625-50, 1125-60,
1250-50)

Teil 8: PALplus-Format für
Systeme 625-50
(IEC 61834-8:2001)

SIST EN 61834-8:2003

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This European Standard was approved by CENELEC on 2001-09-01. 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.

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CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, 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

EN 61834-8:2001

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Foreword

The text of document 100/241/FDIS, future edition 1 of IEC 61834-8, prepared by 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 61834-8 on 2001-09-01.

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) 2002-06-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2004-09-01

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.

Endorsement notice

The text of the International Standard IEC 61834-8:2001 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 61834-1	1998	Recording - Helical-scan digital video cassette recording system using 6,35 mm magnetic tape for consumer use (525-60, 625-50, 1125-60 and 1250-50 systems) Part 1: General specifications	EN 61834-1	1998
IEC 61834-2	1998	Part 2: SD format for 525-60 and 625-50 systems	EN 61834-2	1998
IEC 61834-4	1998	Part 4: Pack header table and contents	EN 61834-4	1998
IEC 61883-1	1998	Consumer audio/video equipment - Digital interface Part 1: General	EN 61883-1	1998
IEC 61883-2	1998	Part 2: SD-DVCR data transmission	EN 61883-2	1998

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NORME INTERNATIONALE INTERNATIONAL STANDARD

**CEI
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61834-8

Première édition
First edition
2001-06

**Enregistrement –
Système de magnétoscope numérique à cassette à
balayage hélicoïdal utilisant la bande magnétique
de 6,35 mm, destiné au grand public
(systèmes 525-60, 625-50, 1125-60 et 1250-50)**

STANDARD PREVIEW
Partie 8: Format PALplus pour le système 625-50
(standards.iteh.ai)

**Recording –
Helical scan digital video cassette recording
system using 6,35 mm magnetic tape for
consumer use (525-60, 625-50, 1125-60
and 1250-50 systems)**

Part 8: PALplus format for the 625-50 system

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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Pour prix, voir catalogue en vigueur
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RECORDING – HELICAL-SCAN DIGITAL VIDEO CASSETTE RECORDING SYSTEM USING 6,35 mm MAGNETIC TAPE FOR CONSUMER USE (525-60, 625-50, 1125-60 and 1250-50 systems)

Part 8: PALplus format for the 625-50 system

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 specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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- 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 61834-8 has been prepared by TA 7: Moderate data rate storage media and equipment, 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
100/241/FDIS	100/260/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.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

IEC 61834 consists of the following parts, under the general title *Recording – Helical-scan digital video cassette recording system using 6,35 mm magnetic tape for consumer use (525-60, 625-50, 1125-60 and 1250-50 systems)*

- Part 1: General specifications;
- Part 2: SD format for 525-60 and 625-50 systems;
- Part 3: HD format for 1125-60 and 1250-50 systems;
- Part 4: Pack header table and contents;
- Part 5: The character information system;
- Part 6: SDL format;
- Part 7: EDTV2 format;
- Part 8: PALplus format for the 625-50 system;
- Part 9: DVB format;
- Part 10: DTV format.

This standard is Part 8 of IEC 61834 and contains the specifications for an extended application of the SD format to record the PAL plus signal.

Part 1 describes specifications which are common to all versions of the helical scan digital video cassette recording system, including: cassettes, helical recording method, modulation method, magnetization and basic system data.

Part 2 describes the specifications for 525-60 and 625-50 systems not included in part 1.

Part 3 describes the specifications for 1125-60 and 1250-50 systems not included in parts 1 and 2.

Part 4 describes the pack header table and the contents of packs which are applicable to all versions of the helical-scan digital video cassette system.

Part 5 describes the character information system which is applicable to all versions of the helical scan digital video cassette system.

Part 6 describes the specifications for a variant of the SD format, using twice the normal compression ratio, which are not included in part 2.

Part 7 describes the specifications for an extended implementation of the SD format capable of recording an EDTV2 signal.

Part 9 describes the specifications for an extended implementation application of the SD format, capable of coding and recording a DVB bit stream.

Part 10 describes the specifications for an extended implementation of the SD format, capable of coding and recording a DTV bit stream.

Those interested in the manufacture of PALplus digital video cassette recording systems are advised to refer to parts 1, 2, 4, 5, and 8.

The committee has decided that the contents of this publication will remain unchanged until 2008-08. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

RECORDING – HELICAL-SCAN DIGITAL VIDEO CASSETTE RECORDING SYSTEM USING 6,35 mm MAGNETIC TAPE FOR CONSUMER USE (525-60, 625-50, 1125-60 and 1250-50 systems)

Part 8: PALplus format for the 625-50 system

1 General

1.1 Scope

This part of IEC 61834 is an extension of the SD specification (SD mode) and covers the features necessary to enable a DVCR to record and reproduce PALplus signals.

While all DVCRs must have the capability of recording and/or playback in SD (SP) mode, PALplus capability is optional.

For this Part 8, the data structure of a track is defined by APT = 000b which consists of four areas as described in 4.3.2 in IEC 61834-1 and AP1 = AP2 = AP3 = 000b.

There are two methods for recording the PALplus signal on a DVCR:

- method 1: record the partially encoded PALplus signal;
- method 2: record the completely decoded PALplus signal.

This part is concerned with "Method 1" (baseband helper recording) as this requires an extension to the DVCR SD specification IEC 61834-2.

For "Method 2" the DVCR is equipped with a built-in PALplus decoder and the SD specification IEC 61834-2 applies unchanged.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 61834. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 61834 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 61834-1:1998, *Recording – Helical-scan digital video cassette recording system using 6,35 mm magnetic tape for consumer use (525-60, 625-50, 1125-60 and 1250-50 systems) – Part 1: General specifications*

IEC 61834-2:1998, *Recording – Helical-scan digital video cassette recording system using 6,35 mm magnetic tape for consumer use (525-60, 625-50, 1125-60 and 1250-50 systems) – Part 2: SD format for 525-60 and 625-50 systems*