

# INTERNATIONAL STANDARD

# IEC 61834-2

First edition  
1998-08

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**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**

*This **English-language** version is derived from the original **bilingual** publication by leaving out all French-language pages. Missing page numbers correspond to the French-language pages.*



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Part 2:  
SD format for 525-60 and 625-50 systems**

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
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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 2: SD format for 525-60 and 625-50 systems**

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.
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International Standard IEC 61834-2 has been prepared by subcommittee 100B: Audio, video and multimedia information storage systems, 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
100B/168/FDIS	100B/180/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.

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, 1225-60 and 1250-50 systems)*

- Part 1:1998, General specifications
- Part 2: SD format for 525-60 and 625-50 systems
- Part 3: HD format for 1125-60 and 1250-50 systems <sup>1)</sup>
- Part 4: The pack header table and the contents
- Part 5: The character information system

<sup>1)</sup> To be published.

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

Part 1 describes the common specifications which are cassettes, helical recordings, modulation method, magnetization and basic system data.

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

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

Part 5 describes the character information system which is applicable to the whole recording system of helical-scan digital video cassette.

For manufacturing SD digital video cassette recording systems, part 1, part 2, part 4 and part 5 are referred to.

For manufacturing HD digital video cassette recording systems, part 1, part 2, part 3, part 4 and part 5 are referred to.

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

Annexes C and D are for information only.

# **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**

### **1 General**

#### **1.1 Scope**

This part of IEC 61834 specifies the content, format and recording method of the data blocks forming the helical records on the tape containing audio, video, and system data. It describes the specifications for the 525-line system with a frame frequency of 29,97 Hz (hereinafter referred to as 525-60 system) and 625-line system with a frame frequency of 25,00 Hz (hereinafter referred to as 625-50 system) which are not included in part 1. One video channel and two independent audio channels are recorded in the digital format. Each of these channels is designed to be capable of independent editing. The video channel records and reproduces a component television signal in 525-60 and 625-50 systems.

In this part, the data structure of a track is defined by APT = 000b which consists of four areas as described in 4.3.2 in part 1 and AP1 = AP2 = AP3 = 000b.

#### **1.2 Normative references**

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60461:1986, *Time and control code for video tape recorders*

IEC 60735:1991, *Measuring methods for video tape properties*

IEC 60958:1989, *Digital audio interface*

ITU-R Recommendation BT601-5:1995, *Studio encoding parameters of digital television for standard 4:3 and wide screen 16:9 aspect ratios*

ITU-R Report 624-4:1990, *Characteristics of television systems*