INTERNATIONAL STANDARD

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Helical-scan video tape cassette system using 12,65 mm (0,5 in) magnetic tape on type VHS –

Part 5: D-VHS

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CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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International Standard IEC 60774-5 has been prepared by IEC technical committee 100: Audio, video and multimedia systems and equipment.

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

CDV	Report on voting
100/664/CDV	100/748/RVC

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 2.

IEC 60774 consists of several parts under the general title *Helical-scan video tape cassette system using 12,65 mm (0,5 in) magnetic tape on type VHS:*

Part 1: VHS and compact VHS video cassette system

Part 2: FM audio recording

Part 3: S-VHS

Part 4: S-VHS video cassette system - ET mode

Part 5: D-VHS

The committee has decided that the contents of this publication will remain unchanged until 2007. At this date, the publication will be

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- withdrawn;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

A bilingual version of this standard may be issued at a later date.

HELICAL-SCAN VIDEO TAPE CASSETTE SYSTEM USING 12,65 mm (0,5 in) MAGNETIC TAPE ON TYPE VHS –

Part 5: D-VHS

1 Scope

This part of IEC 60774 applies to the MPEG TS (Transport Stream) packet recording for helical-scan video tape cassette system using 12,65 mm magnetic tape on type VHS.

This standard specifies the cassettes, the tape, the track configuration, the data structure, the recording method and the MPEG TS format for D-VHS.

D-VHS is formatted on the basis of the VHS system, aiming for digital data recording. D-VHS basic format, which is commonly used in various types of data recording application, is specified.

D-VHS records the MPEG TS packets directly compatible with digital broadcast systems.

D-VHS has three recording modes according to the data-rate: STD (Standard), HS (High Speed) and LS (Low Speed/four types), to accommodate various digital broadcasts and needs. MPEG2 recording format for D-VHS including trick play is specified.

The pack format is specified for recording ancillary data, except the MPEG TS packets.

D-VHS MPEG format (ID: MTRM) is specified. D-VHS MPEG format is used for pre-recorded software tape for D-VHS, and self-encoding of analog video and audio signal (for example conventional TV) to MPEG TS packet.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60774-1:1994, *Helical-scan video tape cassette system using 12,65 mm (0,5 in) magnetic tape on type VHS – Part 1: VHS and compact VHS video cassette system*

IEC 60774-3:1993, *Helical-scan video tape cassette system using 12,65 mm (0,5 in) magnetic tape on type VHS – Part 3: S-VHS*

ISO/IEC 11172-3:1993, *Information technology – Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s – Part 3: Audio*

ISO/IEC 13818-1, *Information technology – Generic coding of moving pictures and associated audio information – Part 1: Systems*

ISO/IEC 13818-2, *Information technology – Generic coding of moving pictures and associated audio information – Part 2: Video*

ISO/IEC 13818-3:1998, *Information technology – Generic coding of moving pictures and associated audio information– Part 3: Audio*

ISO/IEC 13818-7:1998, *Information technology – Generic coding of moving pictures and associated audio information – Part 7: Advanced Audio Coding (AAC)*

ISO 639-2:1998, *Codes for the representation of names of languages – Part 2: Alpha-3 code*

ISO 2015:1976, *Numbering of weeks*

ISO 3166-1:1997, *Codes for the representation of names of countries and their subdivisions – Part 1: Country codes*

ISO 3901:2001, *Information and documentation – International Standard Recording Code (ISRC)*

ISO 8859-1:1997, *Information technology – 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No. 1*

ISO 13818-9:1996, *Information technology – Generic coding of moving pictures and associated audio information – Part 9: Extension for real-time interface for system decoders*

ARIB STD-B5:1996, *Ver 1.0, Data multiplex broadcasting system for the conventional television using the vertical blanking interval*

ARIB STD-B10:2004, *Ver 3.8, Service Information for Digital Broadcasting System*

ARIB STD-B24:2004, *Ver 4*, *Data coding system and transmission specification for digital broadcasting*

ARIB TR-B15:2004, Ver 2.9, *Operational guidelines for digital satellite broadcasting services using broadcasting satellites*

ATSC A/52B:2001, *Digital audio Compression (AC-3)*

ATSC.A/53B:2001, *ATSC Digital Television Standard*

ATSC A/70:2000, *Conditional Access System for Terrestrial Broadcast*

EIA 708 B:1999, *Digital Television (DTV) closed captioning*

EN 300 468:1998, *V1.3.1, Digital Video Broadcasting (DVB) - Specification for Service Information (SI) in DVB systems*

ETR 211:1997, *Digital Video Broadcasting (DVB); Guidelines on implementation and usage of Service Information (SI)*

ETS 300 743:1997, *Digital Video Broadcasting (DVB) - Subtitling systems*

JIS X 208:1997, *7-bit and 8-bit double byte coded KANJI sets for information interchange*

PNG (Portable Network Graphic) Specification Ver1.0, W3C Rec.Oct.1996, available at <http://www.w3.org/Graphics/PNG/>

SMPTE 302M:2002, *Television – Mapping of AES3 Data into MPEG-2 Transport Stream*