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**NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**GB/T 14001-2012**

Replacing GB/T 14001-1992

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**Time and control code for SDTV video tape recording  
(English Translation)**

**Issued on: January 1, 1970**

**Implemented on: January 1, 1970**

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**Issued by: Standardization Administration of China**

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## Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB/T 14001-1992 major changes "tape recording with time and control code", compared with the GB/T 14001-1992 as follows.

--- Delete the original standard section on the tape width of 19mm and 25.4mm broadcast television special tape recorder;

--- Increasing the width of the tape 6.35mm broadcast television special tape recorder section;

--- Modified Figures 3, 5, 6, 7 and 8, and their interpretation;

--- Updated bit allocation LTC and VITC code;

--- Updated the VITC timing algorithms.

This standard was proposed by the State Administration of Radio, Film and Television.

This standard by the National Film and Television Broadcasting Standardization Technical Committee (SAC/TC239) centralized.

This standard was drafted. Beijing Television, the State Administration of Radio, Film and Television Radio and Television Planning Institute.

This standard was drafted. Tian Fang, Li Xun, Fu Zhidong, Zhou Xuhui, ZHAO Hong-wei, Zhang Baojun, Xu Zhijun, Sun Zhenjiang, Li Yi Xing, Zhao Zhicheng, Wang Xiaoguang, Sun Fengming, Meng Jianjun, Xudong Li, Qu Rui Qing Xue frequency Zengzhao Sheng, He Ying, Zou Bin.

Standard definition TV and video tape recorder with time code control

## 1 Scope

This standard specifies the standard definition broadcast television video tape format encoding time and control codes, the modulation method, and on the tape Recording mode and location.

This standard applies to our standard color television broadcast for TV (analog tape, digital tape) recording system.

## 2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2311-2000 Information technology - Character code structure and extension techniques

### 3.1 Terms and Definitions

The following terms and definitions apply to this document.

#### 3.1.1

Time and control code Time and control code covering the time code, and for user-defined flags encoded binary data set, and the code word of two types of modulation Wait. Time and control code is usually referred to as the time code.

#### 3.1.2

Linear Time Code One kind of code word and modulation format, often used to record the time code signal or video signal in a non-linear recording medium Transmitting the serial signal on off interface.

#### 3.1.3

Vertical Interval Time Code Insert the time code signal during the vertical blanking interval TV signal code word format and modulation scheme.

#### 3.1.4

Time address code timeaddress Codeword recording time address.

### 3.2 Acronyms

The following abbreviations apply to this document.

BCD binary coded decimal code (BinaryCodedDecimal) CRCC cyclic redundancy check code (CyclicRedundancyCheckCode) LTC Linear Time Code (LinearTimeCode) VITC Vertical Interval Time Code (VerticalIntervalTimeCode)