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

GB/T 14960-2017

Replacing GB/T 14960-1994

**Technical requirements and measurement methods of infrared
remote control radiation unit for television broadcast receivers**

电视广播接收机用红外遥控发射器技术要求和测试方法

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 14960-1994 "Technical requirements and measurement methods for infrared remote control transmitters for television broadcast receivers", and GB/T 14960-1994 compared to the main technical changes are as follows:

- canceled the "naming method" "surface hardness" (1994 edition 5.3,6.1) requirements;
- Increased requirements and test methods for "carrier frequency" (see 4.14)
- Adjust the scope of the "key load force" (see 4.16,.1994 edition 8.2); - a more detailed description of the "drop test" (see 4.22.6,.1994 edition 9.6); - A more detailed description of the "Solvent Resistance Test Method" (see 5.2.7,.1994, version 6.4.2). This standard is proposed by the Ministry of Industry and Information Technology (electronic) of the People's Republic of China. This standard is nationalized by the National Audio, Video and Multimedia Systems and Equipment Standardization Technical Committee (SAC/TC242). The standard drafting unit. Sichuan Changhong Device Technology Co., Ltd., Ministry of Industry and Information Technology Electronics Industry Standardization Research Institute, BOE Technology Group Co., Ltd., Konka Group Co., Ltd., Nanjing Sharp Electronics Co., Ltd., Shandong Matsushita Electronic Information Co., Ltd., Beijing Samsung Communication Technology Research Co., Ltd., Ministry of Industry and Information Technology Electronics Fifth Institute. The main drafters of this standard. Deng Jian, Li Xinxin, Deng Xianfu, Sun Qifeng, Wang Zhouhong, Lu Gang, Meng Dong, Hu Haining, Wu Pingping. This standard replaced the previous version of the standard release.
- GB/T 14960-1994. Infrared remote control transmitter technology for television broadcasting receiver Requirements and test methods

1 Scope

GB/T 14960-2017 is the Chinese national standard on technical requirements and measurement methods of infrared remote control radiation unit for television broadcast receivers, in the field of telecommunications and audio-video engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding

as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 May 2017 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2017. Classification: ICS 33.100.10, CCS M74. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the TV broadcast receiver (hereinafter referred to as TV) supporting infrared remote control transmitter technical requirements and test methods. This standard applies to the TV with infrared remote control transmitter (hereinafter referred to as the remote control), with infrared remote control function of similar products Supporting the use of infrared remote control transmitter can also refer to the use.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 2423.1-2008 Basic environmental testing procedures for electric and electronic products - Test A. Low temperature test method

GB/T 2423.2-2008 Basic environmental testing procedures for electric and electronic products - Test B. High temperature test method

GB/T 2423.10-2008 Basic environmental testing procedures for electric and electronic products - Test Fc. Vibration (sinusoidal) test method Graphical symbols for electrical equipment GB/T 5465.2-2008

GB/T 9384-2011 Environment for radio, radio and television receivers, tape recorders, audio power amplifiers (amplifiers) Test requirements and test methods

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Infrared remote control transmitter infraredremotetransmissionunit Through the infrared emission device, the infrared signal is modulated by the coded pulse signal, and the relevant function of the corresponding equipment is controlled at a certain distance Device.

3.2 Infrared remote control television broadcast receiver televisionbroadcastreceiverwithinfraredremotetransmissionunit At a certain distance, can

receive infrared remote control transmitter issued instructions to control the function of the TV.

3.3 Standstill stand-by Infrared remote control TV broadcast receiver work power is cut off, remote control receiving part of the power supply is not cut off the state.

3.4 Mute muting The infrared remote control transmitter sends a command to make the TV broadcast receiver no sound at the time of the state.

3.5 Irradiance irradiance The power that is emitted, transmitted, or received on a unit area in the form of radiation.

Note. The unit is watts per square meter (W/m^2) or microwatt per square centimeter ($\mu\text{W/cm}^2$).