

ICS 33.160
CCS M71



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

GB/T 22123-2008

**Methods for picture and audio subjective assessment of digital
television receiving equipment**

数字电视接收设备图像和声音主观评价方法

Issued on: June 30, 2008

Implemented on: January 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

1 Scope	1
2 Normative references	1
2 Environmental Conditions	2
4.1 Source	4
4.5 Evaluation of the pilot phase	5
4.6 Expression of results	7
5 Evaluation Test Methods and Data Processing	7
5.1 Evaluation Method	7
5.2 pairs stimulate continuous quality scale method	7
5.3 stimulate comparison	9
13 References	14

Foreword

The Standard Appendix A, Appendix B, Appendix C is a normative appendix. The standard proposed by the People's Republic of China Ministry of Information Industry. This standard by the national audio, video and multimedia systems and equipment Standardization Technical Committee centralized. Drafting of this standard. National Radio and Television Product Quality Supervision and Inspection Center, China Electronics Technology Group Corporation Institute, Xiamen Overseas Chinese Electronic Co., Ltd., the Ministry of Information Industry Institute of Electronics forty, Sichuan Changhong Electric Co., Ltd., Qingdao Hisense Electric shares Ltd., Shenzhen Konka Group, TCL Group Co., Ltd. Participated in the drafting of this standard. Beijing Peony Electronics Group Co., Ltd., Suzhou Philips Consumer Electronics Co., Ltd., Panda Electronics Co., Ltd., Chongqing, as the sound of the modern company, Shanghai Broadband Digital Technology Co., Ltd., Beijing as the United Digital Systems Ltd. Jiangxi Branch Creative digital technology center technology company, Shanghai Phoenix Optical Co., Ltd., Shanghai SVA Venus Electronics Co., Ltd., Tsinghua University, Jiangsu Province Supervision, Inspection and electronic products, Shenzhen Skyworth -RGB Electronics Co., Ltd., Shanghai SVA shares flat panel display Branch, Beijing Jade Bird Huaguang Technology Co., Ltd., Shanghai Yongxin Color CRT Co., Ltd., Shenzhen Electronic Product Quality Testing Center, Shanghai Electronic instruments standard Measurement and Testing, Inspection and electronic products in Guangdong Province, Shenzhen City of Vision Information Technology Co., Ltd., Guangdong Batroxobin Electric Group Co., Ltd., Guangzhou East BBK Electronics Co., Ltd., Shenzhen Konka Group, Sichuan, as the Alliance Digital Equipment Co., Ltd., Beijing

digital high-definition television Industrial Engineering Coordination Group Office, Jiangsu Shinco Electronics Group Co., Ltd., Lenovo (Beijing) Co., Ltd., Beijing Digital China Limited, Tektronix Electronics (China) Co., Ltd., Ministry of Information Industry Institute of Electronics fifth, 203 electronic metering station. The main drafters of this standard. Li Jian, Wang Haiyan, Ruan Weihong, Wu Xin, Wu Wei Hua, Chen Ke, Richard Li, Wang, Made Biao, Song Danmei, Zhao Yan mud, Xu Fuping, Tengrong Qing, Zhou Jinzhong, Wang Li.

The standard reference to the International Telecommunication Union ITU-R BT. 500-10, ITU-R BT. 710-2, ITU-R BT. 1129-2 and ITU-R BT. 1201-1.

1 Recommendation development. Since the digital television signal during transmission are subject to different degrees of damage, this selection of international standard recommended by double injury scale stimulus Law and stimulate comparative law as a digital television receiver apparatus subjective image quality evaluation method. Taking into account the special television broadcast signal receiving end Levy on the program constitutes a subjective evaluation system and ITU-R BT. 710-2, ITU-R BT. 1129-2 and ITU-R BT. 1201-1 construction The provisions proposed in the book is different. Digital television receivers image and sound Subjective Evaluation

1 Scope

GB/T 22123-2008 is the Chinese national standard on methods for picture and audio subjective assessment of digital television receiving equipment, 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 30 June 2008 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 January 2009. Classification: ICS 33.160, CCS M71. 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 conditions and evaluation subjective evaluation method for a digital television receiver apparatus. This standard applies to all kinds of receiving and displaying means (such as satellite, terrestrial and cable, etc.) receiver, a receiver and a display (such as cathode-ray Ray tube, LCD, plasma and projection displays and a variety of ways) and other digital television equipment (including standard and high definition) subjective evaluation, Other similar devices can be implemented by reference.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 14857 specifications of encoding parameters of digital television studio SJ/T 11324 digital television receivers term SJ/T 11348-2006 Methods of measurement of digital TV flat panel display GY155 high-definition television program production and exchange with the video parameters

3 Terms and Definitions

SJ/T 11324 and established the following terms and definitions apply to this standard.

3.1 By evaluators subjective response to the measured quality of the system to determine a method of TV system performance.

3.2 For the subjective assessment of television picture quality and sound quality, and image content and audio content has specific requirements for image or image sequence.

3.3 Subjective evaluation for assessing the quality of the image and sound quality assessment scale. 3.4 (Or) irregular interference color image stability or damage, or any combination thereof and brightness.

Note 1. The usual brightness and (or) chromaticity irregularities such as.

- a) the background from left to right in the end or the luminance change from the top;
- b) the screen left or right one slightly fuzzy matter;
- c) some vertical narrow left of the screen;
- d) vertical speed over the entire screen;