

ICS 33.160.99

CCS M 76



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

GB/T 14858-2011

Replacing GB/T 14858-1993

General specification for black-white monitors

黑白监视器通用规范

(English Translation)

Issued on: October 31, 2011

Implemented on: February 1, 2012

Issued by: Standardization Administration of China

Table of Contents

Introduction	
1 Scope	
2 Normative references	
3 Terms and definitions	
4 Categories 1 and test conditions	
4.1 Category	
4.2 Test Conditions	
5 Technical requirements and methods of measurement	
5.1 General Requirements	
5.2 Electrical, optical properties of	
5.3 Electrical, optical performance measurement	
12 5.4 Security	
5.5 Environmental requirements and test methods	
15 5.6 Reliability	
6 Quality assessment procedures	
6.1 Identification Test	
6.2 Quality conformance inspection	
7 Signs, packaging, transportation and storage	

Foreword

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

This standard is GB/T 14858-1993 "black and white monitor general technical conditions" amendments.

This standard and GB/T 14858-1993 compared to the main changes are as follows.

- a) the standard name to "black and white monitor universal norms";
- b) in accordance with GB/T 1.1-2009 requirements of editorial changes;
- c) increasing the preface;
- d) Table 1 of Article 4 "image reproduction rate" Universal by "not less than 92%" to "not less than 95%";
- e) Table 1 of Article 5, "center shift rate" to "concentric", "horizontal resolution" to "clarity";

- f) Table 1 of Article 9 of the Universal "raster geometric distortion of not more than 3" to " ≤ 2 ";
- g) Table 1 of Article 16, "the DC component of the distortion channel is not more than 30" to " ≤ 20 ";
- h) Table 1 in the first 18 "large-area contrast" to "large-scale image contrast";
- i) deleted 5.2 Table 1 of the original Article 12 of the "better than interlaced" and 13 "high anode voltage stability";
- j) Remove the 5.3.10, 5.3.11 "than interlaced" and "anode voltage stability" measuring method;
- k) in FIG. 6 5.3.14 make changes.

This standard replaces GB/T 14858-1993 "black and white monitor general technical conditions." 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 (SAC/TC242) centralized.

This standard was drafted. China Electronics Standardization Institute, Tianjin University, Beijing Peony Electronics Co., Ltd. as the source.

1 Scope

This standard specifies the technical requirements for black and white monitor, test methods, quality assessment procedures, marking, packaging, transportation and storage.

This standard applies to our current television standard cathode ray tube display device, as all kinds of black and white monitor. This standard is black White monitor manufacturers to develop products based on the standard, but also the design, manufacture and testing should comply with the rules.

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 191 Packaging - Pictorial signs GB/T 2828.1 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan GB/T 2829 Periodic inspection Sampling procedures and tables (for inspection of process stability) GB/T 3174 PAL-D television broadcasting system specifications GB/T 3659 TV video channel test method GB/T 9384 radio broadcast, radio and television receivers, tape

recorders and audio amplifiers (amplifiers) to the test environment Sum Test Method GB/T 12322 Universal TV Equipment Reliability Test Method of application GB 14861 safety applications television equipment requirements and test methods SJ/T 10919 color television broadcasting receivers packaging

3 Terms and Definitions

The following terms and definitions apply to this document.

Standard composite video signal amplitude composite signal standard range

- a) blanking level (reference level). 0V;
- b) the peak white level. $0.7V \pm 20mV$;
- c) the difference between black level and blanking level of. 0V 50mV;
- d) burst level. $0.3V \pm 9mV$.

Standard image standard picture the standard amplitude image signal content is a three white and two black bars image composite video signal to the black and white monitor inputs, monitor in normal operating conditions, adjust brightness, contrast knob, IOUs brightness 80cd/m², black bar luminance 2cd/m² image.

4.1 Classification

According to the level of quality and scope, black and white monitors are divided into general-purpose and application-level broadcast.