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PEOPLE'S REPUBLIC OF CHINA**

SJ/T 11340-2015

**General specification for front projector
(English Translation)**

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1 Scope

This Specification specifies the function and performance, test methods, inspection rules, marks, packaging, transportation, storage, etc. for front projectors.

This Specification applies to front projectors with liquid crystal (LCD), liquid crystal on silicon (LCoS), and digital optical processing (DLP) projection methods. It is the main basis for product design, production finalization and inspection. Other projection methods and front projectors used in different occasions can use this Specification as a reference.

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.

GB/T 191, Packaging and storage marks

GB/T 2828.1, Sampling procedures for inspection by attributes -- Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 2829, Sampling procedures and tables for periodic inspection by attributes (apply to inspection of process stability)

GB 4943.1, Audio/video, information and communication technology equipment -
Part 1: Safety requirements

GB 5296.1, Instructions for use of products of consumer interest - Part 1: General principles

GB/T 5465.2, Graphical symbols for use on electrical equipment - Part 2: Graphical symbols

GB 9254, Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

GB/T 14960, Technical requirements and measurement methods of infrared remote-control radiation unit for television broadcast receivers

GB 17625.1, Electromagnetic compatibility - Limits - Part 1: Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

SJ/T 10514-1994, Technical requirements and methods of measurement on infrared remote control unit for television broadcast receivers

SJ/T 10919, Packaging of color broadcasting TV receiver

SJ/T 11324, Terminology of digital television receiving equipment

SJ/T 11325, Reliability test methods for digital television receiver and display equipment

SJ/T 11326, Environmental testing methods for digital television receiver and display equipment

SJ/T 11329, Specification of interfaces for digital television receiving equipment.

Part 3: Video interface of composite video blanking synchronization

SJ/T 11330, Specification of interfaces for digital television receiving equipment.

Part 4: Video interface of S-Video

SJ/T 11331, Specification of interfaces for digital television receiving equipment.

Part 5: Analog audio interface

SJ/T 11332, Specification of interfaces for digital television receiving equipment -

Part 6: Analog video interface of RGB

SJ/T 11333, Specification of interfaces for digital television receiving equipment -

Part 7: Interface of video component YPBPR

SJ/T 11346-2015, Methods of measurement for electronic projectors

SJ/T 11348-2016, Methods of performance measurement for flat panel displays

3.1 Terms and definitions

For the purposes of this document, the terms and definitions defined in SJ/T 11324 as well as the followings apply.

3.1.1

front projector

A projector that allows users to view projected images normally on the same side as the projector.

3.1.2

passive standby mode

A low power state in which the projector is connected to mains power and does not provide primary functionality. The projector can only enter this mode after receiving external excitation signals such as remote control and buttons. The projector can return to the working mode from this mode through the excitation of the remote control device, internal signal, etc.

3.1.3

passive standby power

The active power measured by the projector in passive standby mode.

NOTE: The unit is watts (W).

3.1.4

unit quality

The overall quality of the projector including working lens.

NOTE: The unit is kilograms (kg).

3.1.5

ratio of all white and all black

Under standard working conditions, the ratio of the average illuminance of a full white field image to a full black field image.

3.2 Abbreviations

The following abbreviations apply to this document.

UQ: Unit Quality.

4.1 Normal use conditions

Normal use conditions are:

- Ambient temperature: 5°C~ 35°C:
- Relative humidity: 20% ~ 80% (non-condensation state);
- Air pressure: 86 kPa ~ 106 kPa:
- Power supply: AC 176 V~ 240 V, 49 Hz~ 51 Hz.

4.2 Graphical symbols for equipment

Graphical symbols shall comply with the relevant provisions of GB/T 5465.2.

The graphic symbols not defined in GB/T 5465.2 shall be specified by the product

7.1.3.1 Classification for nonconformity

The front projector is divided into safety nonconformity (indicated by the character Z in Table A.1), type A, type B and type C nonconformity according to the severity of quality characteristics.

7.1.3.2 Classification for nonconforming products

A unit product with one or more nonconforming items is called a nonconforming product. According to the nonconforming type, it is divided into safety nonconforming products, type A nonconforming products, type B nonconforming products, and type C nonconforming products.

7.1.3.3 Criteria for nonconformity

The criteria for failure are as follows:

- a) Requirements for performance at room temperature: According to the provisions of Annex D.
- b) Requirements for appearance, structure: According to A.4 in Annex A.
- c) Safety requirements: As long as it does not meet the requirements in 5.8, it will be judged as safety nonconformity.
- d) Requirements for electromagnetic compatibility characteristic limits: According to the relevant provisions in 5.7.
- e) Requirements for environmental adaptability: According to Annex C.
- f) Requirements for reliability: According to the relevant provisions in 5.9.