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

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**Technical requirement for environmental labeling products.
Projector
(English Translation)**

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Foreword

In order to implement the Environmental Protection Law of the People's Republic of China, reduce the environment and the projector during production, use, recycling and reuse.

This standard is formulated for the impact of human health.

This standard describes the environmental protection design, production stage, use phase of energy consumption and noise, recycling stage, packaging and use of the projector.

Ming made a request.

This standard is the first release.

This standard applies to China Environmental Labeling Product Certification and China Environmental Labeling Low Carbon Product Certification.

This standard was formulated by the Science and Technology Standards Department of the Ministry of Environmental Protection.

This standard is mainly drafted by. China-Japan Friendship Environmental Protection Center, China Electronic Video Industry Association Large Screen Display Equipment Branch, Country Shenzhen Yatu Digital Video Technology Co., Ltd., Zhongda Dentsu Co., Ltd., Guangdong Weichuang Video Technology Co., Ltd., Ningbo GQY Video Co., Ltd.

This standard was approved by the Ministry of Environmental Protection on July 3, 2012.

This standard has been implemented since October 1, 2012.

This standard is explained by the Ministry of Environmental Protection.

Environmental Labeling Product Technical Requirements Projector

1 Scope of application

This standard specifies the terms and definitions, basic requirements, technical content and test methods of the projector environmental labeling products.

This standard applies to all types of projectors.

2 Normative references

The contents of this standard refer to the terms in the following documents. For undated references, the valid version applies to this standard.

GB 4943 Security of information technology equipment GB 9254 Radio disturbance limits and methods of measurement for information technology equipment GB 17625.1 Electromagnetic compatibility limit harmonic current emission limit (device input current per phase $\leq 16A$) GB/T 14857 studio digital television coding parameter specification GB/T 16288 logo for plastic products GB/T 18313-2001 Measurement of airborne noise of acoustic information technology equipment and communication equipment GB/T 18455 packaging recycling mark GB/T 26572 Limit requirements for restricted substances in electrical and electronic products GY/T 155 HDTV program production and exchange video parameter values HJ 2501 Environmental Labeling Product Technical Requirements Wire and Cable HJ/T 238 Environmental Labeling Product Technical Requirements Rechargeable Battery HJ/T 239 Environmental Labeling Product Technical Requirements Dry Battery

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Projector Projector

The design function controls the light source with electronic image information, and optically projects the image onto the screen, and is powered by the public grid.

Display device.

3.2 Working mode active mode

The product is connected to a power supply and forms an image and/or sound.

3.3 Standby mode

The product is connected to the power supply and produces neither sound nor image. The user can use direct or indirect signals.

If you use the remote control, switch the product to work.

3.5 Working mode energy consumption active mode energy

The energy consumption of the product according to the test methods and calculation methods specified in Appendix A of this standard, in lumens per watt (lm/W).

3.6 Energy efficiency index

In the working mode, the ratio of the light output of the projector to the power consumption of the whole machine is expressed by Eff.

4 Basic requirements

4.1

Product quality should meet the requirements of the corresponding product quality standards; product safety performance should meet the requirements of GB 4943;

Capacity should meet the requirements of GB 9254 and GB 17625.1.

4.2

Pollutant emissions from product manufacturing enterprises shall comply with national or local standards for pollutant discharge.

4.3

Product manufacturers should strengthen clean production in the production process.

5.1.1 Easy to disassemble design

5.1.1.1

The product shall be of a detachable design.

5.1.1.2

The bulb should be easily separated from the product.

5.1.2 Easy to recycle design

Plastic parts with a mass exceeding 25g or a planar surface area exceeding 200mm² should use a single type of polymer or blend polymerization the object shall be marked in accordance with the requirements of GB/T 16288.

5.1.3 Requirements for hazardous substances in parts and components

5.1.3.1

In the outer casing and frame parts, except for the plastic parts adjacent to the heating or imaging components, chlorine and bromine should not be used in the plastic parts.

The polymer should not be added with a flame retardant containing organochlorine compounds or organic bromine compounds.

5.1.3.2

In addition to wire and cable, the phthalates listed in Appendix B shall not be added to the plastic parts with a mass greater than 25g.

As a plasticizer.

5.1.3.3

The content of short-chained chlorinated paraffins (SCCPs) in plastic parts shall not exceed 0.1% (mass fraction) of the total number of plastic parts.

5.1.3.4

Tributyltin (TBT) and triphenyltin (TPT) shall not be used in the product parts.

5.1.3.5

Wire and cable shall comply with the requirements of HJ 2501.

5.1.3.6

Lead (Pb), cadmium (Cd), mercury (Hg), six in plastic parts, metal parts, electronic devices, solders and coatings the content of harmful substances such as chrome (Cr6), polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) shall comply with the provisions of GB/T 26572.