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

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

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Foreword

To implement the Environmental Protection Law of the People's Republic of China, reduce the environmental and human health of camera products during production and use.

Influence, develop this standard.

This standard is designed for camera product components such as optical lenses, batteries, chargers, plastic parts, metal parts and products.

The requirements contained in the production process and public information are required.

This standard is the first release.

This standard applies to China Environmental Labeling 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, Canon (China) Co., Ltd., Tianjin Samsung Optoelectronics Co., Ltd.

Company, Matsushita Electric (China) Co., Ltd., Sony (China) Co., Ltd.

This standard was approved by the Ministry of Environmental Protection on March 30, 2012.

This standard has been implemented since June 1, 2012.

This standard is explained by the Ministry of Environmental Protection.

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Environmental Labeling Product Technical Requirements Camera

1 Scope of application

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

This standard applies to camera products, including storage tape, semiconductor memory or semiconductor memory chips, optical discs and hard Disk, etc., not suitable for broadcast-quality camera products.

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 20943 Single output AC-DC and AC-AC external power supply energy efficiency limit value and energy saving evaluation value GB/T 16288 logo for plastic products GB/T 18455 packaging recycling mark GB/T 26572 Limit requirements for restricted substances in electrical and electronic products SJ/T 11415 General Specification for Non-broadcast Digital Camcorders

3 Terms and definitions

The following terms and definitions apply to this standard.

Camera video camera

Through the image and sound sensors, the light and sound signals are converted into electrical signals, and the images are processed through a series of processes and electronic devices whose sound is recorded on a storage medium (such as a magnetic tape, a magnetic disk or a memory card, a compact disk, a hard disk, etc.).

4 Basic requirements

4.1

Product quality should meet the requirements of SJ/T 11415 or other corresponding standards.

4.2

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

4.3

Product manufacturers should strengthen clean production in the production process.

5.1.1 Easy to disassemble design

The product is detachable.

5.1.2 Easy to recycle design

5.1.2.1. Plastic parts with a mass exceeding 25 g or a planar surface area exceeding 200 mm² shall use a single type of polymer or copolymerization Object.

5.1.2.2. The type of polymer, copolymer or polymerization mixture used in the product shall not exceed 4 and is easily decomposed.

5.1.2.3. Plastic parts with a mass exceeding 25g and a surface area exceeding 200mm² shall be marked in accordance with the requirements of GB/T 16288.

5.1.3 Requirements for hazardous substances in parts and components

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5.1.3.1. The product shell shall not use chlorine-containing or bromine-containing polymers, and shall not be added with organic chlorine compounds or organic bromine compounds.

Burning agent.

5.1.3.2. The product enclosure shall not use the phthalate esters listed in Appendix A as plasticizers.

5.1.3.3. Plastic components shall not be added with short-chained chlorinated paraffins (SCCPs) or deca-BDE (Deca-BDE), of which short-chain chlorinated paraffins (SCCPs) content shall not exceed 0.1% of the total plastic parts.

5.1.3.4. Product shell, the content of benzo(a)pyrene in the hand-held belt shall not exceed 1 mg/kg, and the 16 items of multi-rings listed in Appendix B the sum of aromatic compounds (PAHs) must not exceed 10 mg/kg.

5.1.3.5. Optical lenses used in conjunction with the product shall not use lead (Pb) and its compounds as ingredients.

5.2 Product production stage requirements

5.2.1

Methylene chloride (CH₂Cl₂) should not be used as a cleaning solvent in the production of optical lenses.

5.2.2

The assembly of parts shall not use hydrochlorofluorocarbons (HCFCs), 1,1,1-trichloroethane (C₂H₃Cl₃), trichloroethylene.

(C₂HCl₃), dichloroethane (CH₃CHCl₂), dichloromethane (CH₂Cl₂), chloroform (CHCl₃), carbon tetrachloride (CCl₄), A substance such as bromopropane (C₃H₇Br) is used as a cleaning solvent.

5.2.3

Lead-free soldering process should be used during component assembly and connection.

5.3.1 Requirements for hazardous substances in products

Lead (Pb), cadmium (Cd), mercury (Hg), hexavalent chromium (Cr₆), polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs) in products the content should meet the requirements of GB/T 26572.

5.3.2 Product supporting battery and adapter requirements

5.3.2.1. The heavy metals in the battery of the product shall meet the requirements of Table 1.

Table 1 Limits of heavy metals in batteries. mg/kg

Heavy metal

Project Lead (Pb) Cadmium (Cd) Mercury (Hg) Battery ≤ 40 ≤ 20 ≤ 5 5.3.2.2. After the product power battery has been charged and discharged 300 times, its remaining capacity should still be greater than 80% of its rated capacity.

5.3.2.3. For products equipped with adapters, the average efficiency rating of the adapter's energy efficiency should meet the requirements of Table 2.

Table 2 Average efficiency energy efficiency limit

Output power nominal value (P₀)/W minimum average efficiency Output voltage is greater than or equal to 6V, output voltage is less than 6V

06 Test methods

6.1 Technical content The inspection of 5.3.2.3 and 5.3.2.4 shall be carried out in accordance with the method specified in GB 20943.

6.2 Other requirements in the technical content are verified by document review in conjunction with on-site verification.

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