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

GB 22449-2008

**Requisitions of safety and protection for color printer and
processor**

彩色冲洗设备安全保护要求

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Foreword

All the technical contents of this standard is mandatory. The standard proposed by China Machinery Industry Federation. This standard by the National Photographic Machinery Standardization Technical Committee (SAC/TC107) centralized. This standard was drafted. Hangzhou Photographic Machinery Research Institute, Noritsu (Shanghai) Electronic Equipment Manufacturing Co., Ltd., Hangzhou Veyron Trade and Industry has Limited. Drafters of this standard. Wu and Xiang, Zhou Gang, Matsumoto charge Secretary, Zhang Ying Heng, Jin Wei Geng, ZHANG Lin Jun. This standard is the first release. Color wash equipment security requirements

1 Scope

GB 22449-2008 is the Chinese national standard on requisitions of safety and protection for color printer and processor, in the field of image technology. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 7 October 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 September 2009. Classification: ICS 37.040.10, CCS N46. 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 color photographic processing system security technical requirements and test methods. This standard applies to silver imaging flushing process color photographic processing equipment, digital and other color photo output device 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 4943-2001 Safety of information technology equipment (eqv IEC 60950.1999)

GB 7247.1 Safety of laser products - Part 1. Equipment Classification, Requirements and User's Guide (GB 7247.1-2001, idt

IEC 60825-1.1993) Fundamentals and safety principles of the pointing device and regulator coding theory

IEC 60073 machine interface, marking and identification with the (English)

3 Terms and Definitions

The following terms and definitions apply to this standard. In use "voltage" and "current" these two definitions, the absence of other provisions, refers to all Valid values.

3.1 Having a member of one or more functions of the device under the 3.1. NOTE. One type of housing can be another type of shell inside (for example. mechanical protection in case of fire inside the protective shell, or fire protection in housing Mechanical protective shell inside). Further A shell can provide multiple types of shell features (for example. both mechanical protection casing and fire enclosure Function).

3.1.1 Used to spread the fire occurred within the device or flame is reduced to a minimum of equipment.

3.1.2 For reducing mechanical hazards caused by the dangerous risk of injury and other physical pieces of equipment.

3.2 In addition to maintenance personnel who operate the equipment properly.

3.3 After the appropriate personnel refers to technical training and have the necessary experience, they may be able to realize them with carrying out an operation Be dangerous, and will be able to take measures of their own risk or other persons minimized.

3.4 The operator under normal operating conditions.

--- Do not use tools to be able to contact area; or

--- Way to reach a predetermined area; or

--- Area according to the instructions of the contact, whether the need of a tool. In this standard, "contacting" and "accessible" the two words as no other provisions, according to the above definition, refers to the contact area of the operator.

3.5 In addition to the contact zone operators and maintenance personnel in the maintenance, even when the device is powered by the area of contact is required.

3.6 Used to handling screws, bolts or any other apparatus similar fasteners.

3.7 Before danger exclusion prevents access to the danger zone, or in the event of contact with a device that automatically exclude a dangerous situation.

4 Safety General

4.1 Applicability of requirements Requirements This standard only relates to the safety protection scope, do not involve the performance and features of the device. In order to determine whether or not related to security, should be carefully studied and the circuit structure and consider the consequences caused by the failure may occur.

4.2 Design and construction equipment Design and construction of the apparatus shall be so under all conditions, including normal use, it can be taken into account under the non-normal or single fault conditions, It can be prevented within the meaning of this standard caused by stroke and other risk of injury, and to prevent serious fire originated inside the device.

4.3 Supply Voltage Equipment should be designed to make it work at a predetermined connection either supply voltage is safe.

4.4 Structure unspecified If the technical equipment involved, material or structural ways that are not explicitly included in this standard, the device provides a level of security should not be less than the present Given standard level.

Note. In order to adapt to the new situation requires further detailed requirements, immediately drew attention to the appropriate technical committee, and the Committee dealt with promptly.

5 Component

5.1 General Requirements In cases involving national security, the components shall comply with the requirements of this standard, or comply with the relevant components, industry standards or IEC Standard and safety-related requirements. NOTE. Only when the

involved components for standard obviously a country, industry, or IEC components, the order of the standard is considered relevant.

5.2 Evaluation and testing of components Evaluation and testing of components shall be GB 4943 corresponding regulations.

6 Markings and instructions

6.1 Power Ratings Device specific requirements should be GB 4943 marked the power rating, in order to specify an exact voltage supply, frequency and sufficient current carrying ability.

6.2 Safety Instructions The operator should be given sufficient information and all the conditions of use, to ensure that the manufacturer's specified method (excluding oral mean Shows, description, etc.) hazard within the meaning of this standard will not occur during normal use of equipment. If you need a reminder special precautions to avoid the risk of causing the device in operation, installation, maintenance, transportation or storage, it should provide the necessary say Bright. Maintenance Manual (including electronic documents) are usually only available to maintenance personnel, operating instructions (including electronic documents) should be provided to the user.

6.3 Controls and indicators Besides the obvious unnecessary addition, where the impact on the safety indicators, switches and other devices must have control, labels and instructions It should be placed in obvious locations. Location markers and description of switches and other control devices should be marked on the switch or the controller means place. Where possible, Under the circumstances, the mark should be done without languages, national standards and other knowledge can make a glance. In the case of safety-related control devices and indicator color should be consistent with the requirements of IEC 60073.

7.1 Protective contact zone

7.1.1 operator exposure protection zone The operator carrying out the operation without tools generally, or in routine maintenance, it is possible to reach the part of the hand and parts and Member should be designed so as not to cause danger to persons shape and structure. By using the necessary tools, the dangerous places may occur after touching, set the appropriate security agencies, and eye-catching label HERE reminder that operator exposure is dangerous.

7.1.2 maintenance personnel protective contact zone Maintenance contact zone, bare parts with dangerous voltages should be properly installed or isolation protection for the equipment in other parts When servicing does not inadvertently come into contact bare parts of these cases, or because tools or test probes used caused Accidental short-circuiting. If isolation protection may need to be removed because of maintenance and, these isolation protector should be easy to remove and replace. Maintenance