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

GB/T 17974-2017

Replacing GB/T 17974-2000

General specification for desktop ink-jet printers

台式喷墨打印机通用规范

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 17974-2000 "General Specifications for Desktop Inkjet Printers". This standard is compared with GB/T 17974-2000. The main technical changes except editorial changes are as follows:

--- Revised the "scope" (see Chapter 1, Chapter 1 of the.2000 edition);

--- Added "terms and definitions", with corresponding changes to the subsequent chapter number (see Chapter 3);

--- Added "software", "print quality", "harmonic current", "transportability of transport packages", "energy efficiency", "restricted substances limit" Requirements for "accessibility" (see 4.1.2, 4.3.1.7, 4.6.2, 4.8.3, 4.10, 4.11, 4.12);

--- Added "Print Quality", "Harmonic Current", "Transportation Package Drop Adaptability", "Energy Efficiency", "Restricted Substance Limit", "Accessible" Test method (see 5.3.1.8, 5.6.2, 5.8.7, 5.10, 5.11, 5.12);

--- Revised the "Quality Assessment Procedure" (see Chapter 6, Chapter 5 of the.2000 edition);

--- Added Appendix A "Color Printing Comprehensive Test Version", and made corresponding changes to the subsequent appendix numbers. Please note that some of the contents of this document may involve patents. The issuing organization of this document is not responsible for identifying these patents. This standard is proposed and managed by the National Information Technology Standardization Technical Committee (SAC/TC28). This standard was drafted. China Electronics Technology Standardization Research

Institute, Zhuhai Tianwei Pegasus Printing Consumables Co., Ltd., Fujian Shida Computer Design Equipment Co., Ltd., Lenovo (Beijing) Co., Ltd., Zhuhai Bentu Electronics Co., Ltd., Tianjin Optoelectronic Communication Technology Co., Ltd., Tianjin Copy Technology Institute, Epson (China) Co., Ltd., Brother (China) Commercial Co., Ltd., Lexmark Information Technology (China) Co., Ltd. Shenzhen Branch, Ricoh Image Technology (Shanghai) Co., Ltd. Shenzhen Branch, Aerospace Information Co., Ltd., Shenzhen Zhonghang Information Technology Industry Co., Ltd. the company. The main drafters of this standard. Chen Hai, Li Yi Ang, Xu Yang, Qiao Huaixin, Chen Jing, Chi Hongming, Xu Haizhen, Fan Zhiguo, Zhuang Runmiao, Mei Shuangning, Zhang Yu, Yin Xinran, He Gang, Li Jing, Liu Shengying, Sun Yongwen, Zhang Jian. The previous versions of this standard were released as follows:

---GB/T 17974-2000. General specifications for desktop inkjet printers

0.3 Note 1. C

Note 2. The degree of lineage and the degree of alignment are not applicable to the nozzle array printer.

Note 3. "-" indicates that the project has no unit of measure.

4.3.2 Interface The product shall have at least one of a parallel interface, a universal serial bus interface, an Ethernet interface or a wireless interface, and shall conform to the phase Should be in accordance with the standard.

4.3.3 Alarms The product should issue an alarm signal under the following conditions.

- a) hardware failure;
- b) the paper is exhausted, the ink is insufficient, and the ink is exhausted;

Note. The alarm signal can be an indicator light, sound, text or other type of alarm signal.

4.3.4 Self-test The product's self-test (program) should have the following functions.

- a) can check if the hardware is wrong;
- b) If there is a built-in Chinese character library, it should be able to print out all the fonts in the mandatory part of GB 18030.

4.4 Security The safety requirements of the product shall comply with the provisions of GB 4943.1. The wire assembly of the product shall comply with the provisions of GB/T 15934.

4.5 Power Adaptability AC powered products should be able to work normally under 220V $\pm$ 22V, 50Hz $\pm$ 1Hz conditions. DC-powered products should operate at (100 $\pm$ 5)% of the nominal DC voltage. DC voltage nominal value Product standard regulations.

1 Scope

GB/T 17974-2017 is the Chinese national standard on general specification for desktop ink-jet printers, in the field of information technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 1 November 2017 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 May 2018.

Classification: ICS 35.180, CCS L63. 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 requirements, test methods, quality assessment procedures and marking, packaging, transportation and storage of desktop inkjet printers. This standard applies to the design and manufacture of desktop inkjet printers (hereinafter referred to as products). This standard is the basis for the development of product standards. Other types of inkjet printers can refer to this standard.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 packaging storage and transportation icon

GB/T 1988 Seven-digit coded character set for information technology information exchange

GB/T 2421.1 Overview and Guide for Environmental Testing of Electrical and Electronic Products

GB/T 2422 Environmental test test method preparation guidelines Terms and definitions

GB/T 2423.1 Environmental testing of electrical and electronic products - Part 2. Test methods Test A. Low temperature

GB/T 2423.2 Environmental testing of electrical and electronic products - Part 2. Test methods Test B. High temperature

GB/T 2423.3 Environmental testing of electric and electronic products - Part 2. Test method test Cab. constant damp heat test

GB/T 2423.5 Environmental testing of electric and electronic products - Part 2. Test methods Test Ea and guide. Impact

GB/T 2423.10 Environmental testing of electric and electronic products - Part 2. Test