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

GB/T 17540-2017

Replacing GB/T 17540-1998

General specification for desktop laser printers

台式激光打印机通用规范

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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 17540-1998 "General Specifications for Desktop Laser Printers". This standard is compared with GB/T 17540-1998. The main technical changes except editorial changes are as follows:

- Revised the "scope" (see Chapter 1, Chapter 1 of the.1998 edition);
- Added "terms and definitions", and changed the subsequent chapter number accordingly (see Chapter 3);
- Added "software", "print quality", "harmonic current", "transport adaptability 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.1998 edition);
- Removed Appendix A "Laser Printer Control Command Line" (see Appendix A of the.1998 version);
- Added Appendix A "Printing Resolution and Temperature and Humidity Range Requirements for Print Quality", Appendix B "First Set Print Time and Multi-page Print Speed Test Edition", Appendix C "Monochrome Printer Print Preparation Time, Home Print

Time and Continuous Print Speed Test Version" and Appendix Record D "color printer print preparation time, first page print time and continuous print speed test version", for subsequent appendix numbers The corresponding changes (see Appendix A, Appendix B, Appendix C, Appendix D). 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, Shanghai Fuji Xerox Co., Ltd., Brother (China) Commercial Co., Ltd., Konica Minolta (China) Investment Co., Ltd., Lexmark Information Technology (China) Co., Ltd. Shenzhen Branch, Sharp Office Equipment (Changshu) Co., Ltd., Ricoh Image Technology (Shanghai) Co., Ltd. Shenzhen Branch, Nanjing Fujitsu Electronic Information Technology Co., Ltd., Aerospace Information Co., Ltd., Shenzhen Zhonghang Information Technology Industry Co., Ltd. Limited. 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, Cao Guanqun, Wang Haoyu, He Gang, Chen Ting, Li Jing, Wang Qiang, Liu Shengying, Yan Mingke, Sun Yongwen, Zhang Jian. The previous versions of this standard were released as follows:

---GB/T 17540-1998. Desktop laser printer general specification

1 Scope

GB/T 17540-2017 is the Chinese national standard on general specification for desktop laser 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 laser printers. This standard applies to the design and manufacture of desktop laser printers (hereinafter referred to as products). This standard is the basis for the development of product standards. Other types

of electrostatic imaging printers can be referred to.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply 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 guidelines 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 electric and electronic products - Part 2. Test method 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 method test Fc. Vibration (sinusoidal)

GB/T 4857.2-2005 Basic test for packaging and transport packages - Part 2. Temperature and humidity adjustment

GB/T 4857.5 packaging and transportation package drop test method

GB 4943.1 Safety of information technology equipment - Part 1. General requirements

GB/T 5080.7 Equipment reliability test Verification efficiency test plan for failure rate and mean time between failures under the assumption of constant failure rate

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Laser printer laserprinter An electrostatic imaging printer using a laser source.

3.2 Print area printablearea The location and size of the product that can be printed on the