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

GB/T 17294.2-2008

Replacing GB/T 17294.2-1998

**Micrographics -- Alphanumeric computer output microforms --
Quality control -- Part 2: Method**

缩微摄影技术 字母数字计算机输出缩微品 质量控制 第2部分:方法

(English Translation)

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Foreword

GB/T 17294 "Micrographics - Alphanumeric computer output microforms - Quality control" is divided into two parts.

--- Part 1. test slide and test data characteristics;

--- Part 2. Method.

This section GB/T Part of 217,294.

--- This part identical with ISO 8514-2:2000 "Micrographics - Alphanumeric computer output microforms - Quality Control Part 2. Method "(in English).

This revision is based on the GB/T 1.1-2000 "Standardization Guide Part 1. Structure and rules are written standard" and GB/T 20000.2-2001 "Standardization Guide Part 2. Adoption of International Standards Rules" written.

This part of International Standard ISO 8514-2:2000 on the same technical content, but made the following editorial changes.

--- Use the decimal symbol instead of decimal symbol ",", ". ", ";

--- Delete ISO 8514-2:2000 foreword, preface of the preparation of this standard;

--- Delete ISO 8514-2:2000 directory;

--- The ISO 8514-2:2000 Chapters 5 and 6 of the suspension segment were changed to "5.1 Overview", "6.1 Overview." this Part replaces GB/T 17294.2-1998 "Micrographics - Alphanumeric computer output microforms - Quality control - Part 2 Score. Method. " Its GB/T 17294.1-1998 and the main difference is.

--- Delete ISO 8514-2:2000 Foreword to increase this part "Introduction";

--- The "reference standard" to "normative references" while introducing the latest version of the reference document;

--- This section in 5.2.4 "COM Resolving power" article, adding "5.2.4.1 and 5.2.4.2, and thus the $Q = P \times H$ " formula;

--- Modify misnomer and translation is not accurate place.

Appendix A of this section is an informative annex.

This part of the National Document Imaging Technology Standardization Technical Committee (SAC/TC86) and focal points.

Introduction

The need to establish effective and reliable method of measuring image quality Alphanumeric computer output microforms. To obtain a stable quality fitness with the output of products, development of these methods is necessary. In the production process contains alphanumeric information microform, the most important thing is to be presented Clear and readable information to the user, for microform used both the original film (first generation) or copy sheet should be guided by this principle.

GB/T 17294 specifies the method for measuring computer output microform (COM) quality, and the use of standards required by the method used A detailed description of the test slide and test data patterns. It is suitable for inclusion generated by a cathode ray tube, a light emitting diode or laser Variable data and microform format slides contained on fixed data. For the GB/T 18503-2008 consistent, effective Reduced scale range from 1.24 to 1.48. This section only applies to format slides COM recorder.

This section describes the different systems and devices, in order to establish testing guidelines. For this reason, users in the use of low-end equipment can still maintain A certain level of operation. The method requires test slide and test data generated from the COM image generator.

GB/T 117 294 Part illustrates the characteristics of the test slide and test data, Part 2 describes the use of the test slides and Test data quality Alphanumeric computer output microforms method of controlling.

GB/T 17294.2-2008/ISO 8514-2:2000 Micrographics Alphanumeric computer output microform Quality control - Part 2. Method

1 Scope

GB/T 17294 specifies the use of this part of the quality slide format alphanumeric computer output microform (COM) will be the method of measurement. And provides a method to establish the most suitable image generator intensity (exposure) of.

This section applies to the use of COM format slide recorder.

2 Normative references

The following documents contain provisions which, through GB/T 17294 in this part of the reference in terms of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 6159.7-2000 Micrographics - Vocabulary Part VII. Computer Micrographics (eqv ISO 6196-7.

1992)

GB/T 6161-2008 Micrographics - ISO test chart No. 2 Resolving power is described and its application (ISO 3334:2006, IDT) GB/T 17294.1-2008 Micrographics - Alphanumeric computer output microforms - Quality control - Part 1. Test Features slides and test data (ISO 8514:2000, IDT) GB/T 18405-2008 Micrographics - ISO character and ISO test chart No. 1 Characteristics and use (ISO 446:2004, IDT) GB/T 18503-2008 Micrographics - Transparent A6 microfiche images are arranged (ISO 9923:1994, MOD) ISO 5-2:2001 Photography - Density measurements - Part 2. Geometric conditions for transmission density ISO 5-3:1995 Photography - Density measurements - Part 3. Spectral conditions ISO 5-4:1995 Photography - Density measurements - Part 4. Geometric conditions for reflection density

3 Terms and Definitions

Terms and definitions GB/T 6159.7-2000 and GB/T 17294.1-2008 established applicable to this section.

4 Overview of Methods

Images This method can be used for debugging COM systems to produce the desired future can be maintained as an everyday kind of device performance and stability method. If you use several sets of COM recorders, which have to ensure that they achieve the same performance COM recorders role.

Firstly, the use of this standard in the first part of the testing required in the slide test chart No. 1 and No. 2 test chart to determine the measure Test whether the slide images to achieve the best focus.

E-H pattern and density balancing area (see Figure 1) is used to determine the appropriate amount of exposure. Data character generator is used to set and Determination of the accuracy of registration data and test slides. Positioning grid can use to complete this step.

Using the character E and H can adjust the picture occur the exposure device. Typically exposure value set by the user according to their needs.

GB/T 17294.2-2008/ISO 8514-2:2000