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

GB/T 30538-2014

**Document management applications -- Quality control for
scanning office documents in colour**

文件管理应用 办公文件彩色扫描的质量控制

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard uses redrafted Law Amendment uses ISO 29861:2009 quality control "document management application --- color scanning office documents System "(in English).

This standard and ISO 29861:2009 technical differences are as follows.

--- In Chapter 2, "Normative references" in order to modify the use of international standards GB/T 20225-2006 instead of ISO 12651.

This standard and ISO 29861:2009 as compared to, made the following editorial changes.

--- Re-write the foreword.

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

Introduction

This standard describes a method for the evaluation office document output quality color scanning system, and used in conjunction with GB/T 20493.

GB/T 20493.2-2006 describes the use of GB/T 20493.1-2006 specified test standard for office documents in black and white plate scanning system Output quality evaluation methods.

Factors affecting the scan quality document scanning system are.

- a) scanning a physical irregularity;
- b) the exposure of consistency;

- c) the color sensitivity of the photosensitive cells;
- d) contrast;
- e) setting a threshold value;
- f) Halftone reduction;
- g) resolving power;
- h) ratio.

The method given in this standard may be used.

- Initial setup system to produce satisfactory images;
- Check whether the quality remain stable;
- Check other system has reached the same level.

The method given in this standard are intended to.

- Allows the operator to check the scanner settings are correct;
- Allows the operator to understand the capabilities and limitations of the scanner;
- Allows users to monitor the quality of images within a certain period;
- Enabling users to develop quality evaluation procedures.

If you check the entire system from input to output, the result of the examination will have a great relationship with a specific device. For example, a Visual display screen may not be set up, produce quality will be worse than to set a good screen. Thus, by the components of the test system the setting is very important. If you need to test the rest of the system, you may need to be tested.

Regular use of the method specified in this standard should be able to maintain a certain level of quality.

Many systems include a test program in its software. These tests can be combined with test methods specified in this standard of conduct.

The use of standard GB/T 21185-2007 stipulated in Beta 2 (CMYK) for testing.

File management application Quality control of color scanning office documents

1 Scope

This standard specifies the test method for evaluating color reflective scanning office documents over time consistent color output quality.

This standard applies to the output quality of the color scanner Evaluation Office use,

especially for the scanned document contains half office Hue and (or) in the case of a continuous tone portion.

Test methods without the use of special equipment not normally in the office with the test results were evaluated. The test method is based on visual Check, by comparing the output of office documents scanned original test target is performed.

This standard does not apply to only scan a black and white document scanners, or simply scan transparent or translucent document scanner.

This standard needs to be combined with the GB/T 20493.1-2006 and GB/T 20493.2-2006, these two standards do evaluation Male black and white scanner test method file output quality.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 20225-2006 Electronic imaging - Vocabulary (ISO 12651:1999, MOD) GB/T 20493.1-2006 electronic imaging scanning office documents in black and white standard plate test - Part 1. Characteristics (ISO 12653-1:2000, IDT) GB/T 20493.2-2006 electronic imaging scanning office documents in black and white standard plate test - Part 2. Method (ISO 12653-2:2000, IDT) GB/T 21185-2007 Information technology - Office equipment by analog test evaluated the performance of color copying machines image printing method Production and application (ISO/IEC 15775:1999, IDT)

3 Terms and Definitions

Terms and definitions GB/T 20225-2006 defined apply to this document.

4.1 Initial Settings

It should be tested under normal working conditions. Before the tests carried out, should be enough time to warm up.

Where possible, it is recommended before performing these tests, according to the relevant instructions of the manufacturer, the equipment for the initial clean and wash system Manufacturers made standard calibration plate.

Many computer software developers are able to provide a color image scanning color calibration system-generated system, its calibration results the results can be used as a supplement to visual detail in Chapter 6 described.