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**Information technology — Office
machines — Method of specifying image
reproduction of colour copying machines
by analog test charts — Realisation and
application**

AMENDMENT 1

*Technologies de l'information — Machines de bureau — Méthode de
spécification de la reproduction d'image des copieuses couleur par des
organigrammes d'essai analogiques — Réalisation et application*

AMENDEMENT 1

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO/IEC 15775:1999 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 28, *Office equipment*.

Information technology — Office machines — Method of specifying image reproduction of colour copying machines by analog test charts — Realisation and application

AMENDMENT 1

Insert the following after Annex M:

ANNEX N (Informative): Improved ISO/IEC 15775 Test Charts for copier

Three improved test charts for ISO/IEC 15775 are produced in Japan and introduced in SC 28 SWG "Test chart reproduction" at BAM, Berlin on November, 1999. We actually showed three kinds of test chart as an Asian version and compared some measured image quality of them with DIN test charts.

Although there is no published test chart in full agreement with ISO/IEC 15775 not yet now, we strongly feel to need the improvement on the current components in test charts for the better application of the current standard and the future standards.

N1. Reference

1. ISO/IEC JTC 1/SC 28 N369
2. ISO/IEC JTC 1/SC 28 N370
3. Testsuya Itoh: "Improvement Proposals on ISO/IEC 15775 Test Charts for Copier and Printer Outputs", proc. of IS&T's NIP16:2000 International Conference on Digital Printing Technologies, pp. 643-646.

N2. Outlines of Improvement

We have been continuing to improve the Asian version. To agree the Asian version with the current standard, we need to amend the relating parts of the current standard.

We have introduced two kinds of requirements (i.e. optional contents in the test charts and reproduction methods of the test charts) in these charts.

N2-1. The requirements for amendments of the standard texts are mainly as follows:

T3: achromatic test chart

1. Optional adoption of 2 mm diameter center circles for Siemens-Stars in C1
2. Minimum L^* value of 16 equidistant gray steps is 18.0
3. Optional change from "Landolt-ring" to "ISO words" in C4
4. Optional limitation of maximum spatial frequency, 60 lpi in raster lines in C5
5. Optional limitation of maximum spatial frequency, 60 lpi in horizontal and vertical lines in C6

T2: chromatic test chart (CMY)

1. Optional synthetic image (pictorial, map and CIE colors) in B1
2. Optional adoption of 2 mm diameter center circles for Siemens-Stars in B2
3. Optional introduction of Asian scripts and reverse fonts in B5
4. Optional arrangement of image and background tone levels in B6
5. Optional arrangement of image and background tone levels in B7

T4: chromatic test chart (OLV)

1. Optional synthetic image (pictorial, map and CIE colors) in D1
2. Optional adoption of 2 mm diameter center circles for Siemens Stars in D2
3. Optional introduction of Asian scripts and reverse fonts in D5
4. Optional arrangement of image and background tone levels in D6
5. Optional arrangement of image and background tone levels in D7

N2-2. The requirements for amendments of the test chart reproduction are mainly as follows:

1. Optional color inks (Japan Color, Euro Color or SWOP)
2. Multi color printing
 - Special gray ink in Siemens-Stars
 - Special inks for O, L and V
3. Printing with general dot screen, 175 lpi

N3. Organizations with Internet addressees for additional information:

The following URL is the place where you can get information about the followings.

- (1) What is these test charts for..
- (2) How to buy these test charts.

<http://www.jbmia.or.jp/~isoiec/sc28/eng.htm>

* These charts and digital reference data will be purchased form the following organization.

“Japan Business Machine and Information System Industries Association”

* The package includes as follows

- (1) Manual and reference book
- (2) Colorimetric data
- (3) CD-ROM: Image files for these Color Test Charts (Three kinds of color test charts)
 1. PostScript files
 2. Acrobat PDF files