
**Information technology — Office
equipment — Method for measuring
scanning productivity of digital
scanning devices**

*Technologie de l'information — Équipement d'office — Méthode de
mesure de la productivité du scanner des appareils de numérisation*



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents) or the IEC list of patent declarations received (see <https://patents.iec.c>).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 28, *Office equipment*.

This second edition cancels and replaces the first edition (ISO/IEC 17991:2015), which has been technically revised.

The main changes compared to the previous edition are as follows:

- changed the document structure to be consistent with other productivity standards;
- added single function scanners to the Scope;
- updated reporting to include examples of minimum declarations;
- added “first page eject” test result to the “1 set” test from ready.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The actual productivity measurement methods of copying and printing were published as ISO/IEC 24735 and ISO/IEC 24734. However, ISO/IEC 25735 contains no measurement method for the scanning productivity of multifunctional devices to be used for comparison and procurement of these machines.

This document provides a general method for measuring “scanning productivity” of the scanning devices. This document also includes a test chart for scanning productivity measurement. It allows the manufacturers and the buyers of scanning devices to describe the productivity with respect to representative usage.

Information technology — Office equipment — Method for measuring scanning productivity of digital scanning devices

1 Scope

This document specifies a method for determining scanning productivity by measuring “scanning speed”, “scan to network folder speed” and “scan to PC speed”. It includes test files, test setup procedure, test procedure and the reporting requirements for the scanning productivity measurements. This document is applicable to scanning devices including but not limited to multi-function devices, networked scanners and single-function scanners of any underlying scanning technology.

This document is applicable to devices which are able to scan a media size of A4/8,5" × 11" and which have an automatic document feeder (ADF). It is also applicable to devices which have the ability to scan to network folder, or folder on PC and do not require, but can use, other application programs on a computer or another device to perform a scanning job.

This document does not apply to testing and measurement of scan to USB, scan to local hard drive or other storage medium that is part of or plugged into the scanner.

This document is not intended to be used for image quality measurement, document or record management of any scanned images.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 536, *Paper and board — Determination of grammage*

ISO 2470-1, *Paper, board and pulps — Measurement of diffuse blue reflectance factor — Part 1: Indoor daylight conditions (ISO brightness)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

ADF speed

rate at which a device scans documents using an automatic document feeder (ADF) to demonstrate the productivity of the ADF and is represented with suffix A

EXAMPLE $scEFTP_{1setA}$ is the scanner *effective throughput* (3.3) of the ADF on the 1set test.