INTERNATIONAL STANDARD

ISO/IEC 11694-1

Second edition
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Identification cards — Optical memory cards — Linear recording method —

Part 1: Physical characteristics

Cartes d'identification — Cartes à mémoire optique — Méthode d'enregistrement linéaire —

Partie 1: Caractéristiques physiques

Reference number
ISO/IEC 11694-1:2000(E)

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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 3.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. 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 part of ISO/IEC 11694 may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

International Standard ISO/IEC 11694-1 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Identification cards and related devices*.

This second edition cancels and replaces the first edition (ISO/IEC 11694-1:1994), which has been technically revised.

ISO/IEC 11694 consists of the following parts, under the general title *Identification cards — Optical memory cards — Linear recording method*:

— *Part 1: Physical characteristics*

— *Part 2: Dimensions and location of the accessible optical area*

— *Part 3: Optical properties and characteristics*

— *Part 4: Logical data structures*

Introduction

This part of ISO/IEC 11694 is one of a series of standards describing the parameters for optical memory cards and the use of such cards for the storage and interchange of digital data.

The standards recognize the existence of different methods for recording and reading information on optical memory cards, the characteristics of which are specific to the recording method employed. In general, these different recording methods will not be compatible with each other. Therefore, the standards are structured to accommodate the inclusion of existing and future recording methods in a consistent manner.

This part of ISO/IEC 11694 is specific to optical memory cards using the linear recording method. Characteristics which apply to other specific recording methods shall be found in separate standards documents.

This part of ISO/IEC 11694 defines the physical characteristics and the extent of compliance with, addition to, and/or deviation from the relevant base document, ISO/IEC 11693.

The user's attention is called to the possibility that compliance with this International Standard may require use of an invention covered by patent rights and/or other material covered by copyrights. By publication of this part of ISO/IEC 11694, no position is taken with respect to the validity of this claim or of any patent rights or copyrights in connection therewith.

Identification cards — Optical memory cards — Linear recording method — Part 1: Physical characteristics

1 Scope

This part of ISO/IEC 11694 defines the physical characteristics of optical memory cards using the linear recording method.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 11694. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO/IEC 11694 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO/IEC 11693:1994, *Identification cards — Optical memory cards — General characteristics.*

ISO/IEC 11694-3:1995, *Identification cards — Optical memory cards — Linear recording method — Part 3: Optical properties and characteristics.*

3 Terms and definitions

For the purposes of this part of ISO/IEC 11694, the terms and definitions given in ISO/IEC 11693 and the following apply.

3.1
linear recording method
writing and/or preformatting of digital data on the optical memory card in a linear x-y format

4 Characteristics

4.1 Construction

Construction characteristics defined in ISO/IEC 11693 apply.

4.2 Dimensions

Dimensions defined in ISO/IEC 11693 apply.

4.3 Physical characteristics

Physical characteristics defined in ISO/IEC 11693 apply.

4.3.1 Transparent layer

The thickness of the transparent layer may vary dependant on the specific optical characteristics of the material chosen. To be in compliance, materials used shall conform to the optical path length requirements as specified in ISO/IEC 11694-3.

4.3.2 Optical layer

The thickness of the optical layer may vary dependant on the recording materials used and the manufacturing process employed. To be in compliance, the recording materials used shall conform to the optical characteristics as specified in ISO/IEC 11694-3.

4.3.3 Protective layer

The thickness of the protective layer is not specified but is left to the discretion of the card manufacturer.