BS ISO/IEC 11694-3:2015

BSI Standards Publication

Identification cards — Optical memory cards — Linear recording method

Part 3: Optical properties and characteristics

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National foreword

This British Standard is the UK implementation of ISO/IEC 11694-3:2015. It supersedes BS ISO/IEC 11694-3:2008 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee IST/17, Cards and personal identification.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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ISO/IEC 11694-3

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

Part 3: Optical properties and characteristics

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

Partie 3: Propriétés et caractéristiques optiques

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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. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, SC 17, *Cards and personal identification*.

This fourth edition cancels and replaces the third edition (ISO/IEC 11694-3:2008), which has been technically revised.

ISO 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*

— *Part 5: Data format for information interchange for applications using ISO/IEC 11694-4*

— *Part 6: Use of biometrics on an optical memory card*

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Introduction

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

These International 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 International 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 standard documents.

This part of ISO/IEC 11694 defines the optical properties and characteristics and the extent of compliance with, addition to, and/or deviation from the relevant base document, ISO/IEC 11693-1.

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INTERNATIONAL STANDARD ISO/IEC 11694-3:2015(E)

Identification cards — Optical memory cards — Linear recording method —

Part 3: Optical properties and characteristics

1 Scope

This part of ISO/IEC 11694 specifies the optical properties and characteristics of optical memory cards using the linear recording method.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 11693-1, *Identification cards — Optical memory cards — Part 1: General characteristics*

ISO/IEC 11694-4, *Identification cards — Optical memory cards — Linear recording method — Part 4: Logical data structures*

ISO/IEC 10373-5, *Identification cards — Test methods — Part 5: Optical memory cards*

3 Reading/writing test conditions

3.1 Test methods

The test methods specified in ISO/IEC 10373-5 shall apply.

3.2 Default test environment and conditioning

The default test environment and conditioning parameters specified in ISO/IEC 11693-1 apply.

4 Optical characteristics

These characteristics are expected to be achieved under the test conditions defined in ISO/IEC 10373-5. If test conditions change, then the optical characteristics specified herein will change. Please refer to Figure 1 for a definition of the parameters to be measured.

4.1 Minimum performance characteristics

The values contained in this subclause represent the minimum acceptable levels for interchange purposes. Therefore, they represent characteristics that optical cards shall meet or surpass during their *useful life*, exclusive of physical damage to the card.

NOTE Useful life may be defined differently from application to application and is therefore left to the card manufacturer and the card issuer to properly define for their particular implementation.

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