## INTERNATIONAL STANDARD

ISO/IEC 11693-1

First edition 2012-10-15

# Identification cards — Optical memory cards —

Part 1:

**General characteristics** 

Cartes d'identification — Cartes à mémoire optique — Partie 1: Caractéristiques générales





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## **Contents**

Page

Forewordiv	
Introduction	
1	Scope
2	Normative references
3	Terms and definitions
4	Construction2
4.1 4.2	Card construction2
4.2	Card height and width
4.4 4.5	Card corners
-	Card edges
5 5.1	Physical characteristics
5.2	Bending stiffness
5.3 5.4	Card warpageX-rays
5.5	Contamination
5.6 5.7	Flammability
5. <i>1</i> 5.8	Toxicity
5.9	Light transmittance
5.10 5.11	Bending properties
5.12	Atmospheric requirements
5.13 5.14	Dimensional stability and warpage with temperature and humidity
5.15	Default test environment and conditioning
6	Dimensions and location of the accessible optical area
7	Optical properties and characteristics
8	Logical data structures

### **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.

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.

ISO/IEC 11693-1 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

This first edition of ISO/IEC 11693-1 cancels and replaces ISO/IEC 11693:2005, which has been technically revised.

ISO/IEC 11693 consists of the following parts, under the general title *Identification cards* — *Optical memory cards*:

- Part 1: General characteristics
- Part 2: Co-existence of optical memory with other machine readable technologies

## Introduction

This part of ISO/IEC 11693 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 11693 is generic to all optical memory cards. Characteristics which apply to a specific recording method will be found in separate standards documents which define the extent of compliance with, addition to, and/or deviation from this relevant base document.

NOTE There are two currently standardized recording methods: the linear recording method and the holographic recording method. Other recording methods may be developed in the future which will call for additions to be made to this part of ISO/IEC 11693 and/or may result in the need for other International Standards to be prepared.

## Identification cards — Optical memory cards —

## Part 1:

## **General characteristics**

## 1 Scope

The intent of this part of ISO/IEC 11693 is to provide necessary information for card manufacturers, card issuers, and card users interested in interchanging information encoded on optical memory cards.

This part of ISO/IEC 11693 serves as a guide to companies who plan to develop equipment and systems using optical memory cards. The data content and use of the cards depend upon the applications developed by each industry group.

#### 2 Normative references

The following referenced documents are indispensable for the application 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/IEC 7810, Identification cards — Physical characteristics

ISO/IEC 7816-1, Identification cards — Integrated circuit cards — Part 1: Cards with contacts — Physical characteristics

ISO/IEC 10373-1, Identification cards — Test methods — Part 1: General characteristics

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

ISO/IEC 10373-9, Identification cards — Test methods — Part 9: Optical memory cards — Holographic recording method

ISO/IEC 11693-2, Identification cards — Optical memory cards — Part 2: Co-existence of optical memory with other machine readable technologies

ISO/IEC 11694-1, Identification cards — Optical memory cards — Linear recording method — Part 1: Physical characteristics

ISO/IEC 11694-2, Identification cards — Optical memory cards — Linear recording method — Part 2: Dimensions and location of the accessible optical area

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

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

## ISO/IEC 11693-1:2012(E)

ISO/IEC 11695-1, Identification cards — Optical memory cards — Holographic recording method — Part 1: Physical characteristics

ISO/IEC 11695-2, Identification cards — Optical memory cards — Holographic recording method — Part 2: Dimensions and location of accessible optical area

ISO/IEC 11695-3, Identification cards — Optical memory cards — Holographic recording method — Part 3: Optical properties and characteristics

ISO/IEC 11695-4, Identification cards — Optical memory cards — Holographic recording method — Part 4: Logical data structures