

Electronic still-picture imaging — Removable memory —

Part 1: Basic removable-memory module

ICS 37.040.99

National foreword

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The UK participation in its preparation was entrusted to Technical Committee CPW/42, Photography, which has the responsibility to:

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**Electronic still-picture imaging —
Removable memory —**

**Part 1:
Basic removable-memory module**

*Imagerie de prises de vue électroniques — Mémoire mobile —
Partie 1: Module de mémoire mobile de base*



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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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International Standard ISO 12234-1 was prepared by Technical Committee ISO/TC 42, *Photography*.

ISO 12234 consists of the following parts, under the general title *Electronic still-picture imaging — Removable memory*:

- *Part 1: Basic removable-memory module*
- *Part 2: TIFF/EP image data format*
- *Part 3: Design rule for camera file system (DCF)*

Annexes A, B, C and D of this part of ISO 12234 are for information only.

Introduction

This part of ISO 12234 addresses removable-memory requirements for electronic still-picture cameras. Unlike a traditional photographic system, an electronic photography system divides the imaging chain into discrete components separately devoted to image acquisition, storage, transmission, processing and display. Since the components may be made by different manufacturers, there is a need to specify a standard format for data interchange among the various components of an electronic imaging system.

This part of ISO 12234 describes data interchange using a removable-storage media. The purpose of the removable-storage media is to store images digitally in a media that is compact, low in power and mechanically rugged. These removable-storage media will be used to transport the data to other components in the imaging chain. This part of ISO 12234 further specifies the required information content for a removable-memory data format. The information content includes both the image data and data items describing the image. Informative annexes B through D describe various conforming formats. The data features supported by each of these formats are also described in clause 6.

An implementation is said to be in compliance if, at a minimum, all mandatory elements are present. Recommended features are not required, but will substantially enhance interoperability, performance and/or robustness.

In developing this part of ISO 12234, a structured methodology was followed. A reference model describes the environment in which this part of ISO 12234 is used as well as its overall architecture. The architecture separates the software-only layers, termed the image data format, from the hardware technology-dependent layers, termed the media profile. An image data format is media independent and contains the image data, image related data and a means for structuring these data elements.

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- Japan Aviation Electronics Industry Ltd. (JAE)
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Personal Computer Memory Card International Association (PCMCIA)
2635 N. First Street, San Jose, CA 95134 USA

under reasonable and non-discriminatory terms and conditions throughout the world.

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- Berg Electronics
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