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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Photography — 110-size cartridges — Location and dimensions of film exposure and film identification notches

Photographie — Chargeurs de format 110 — Emplacement et dimensions des encoches d'exposition et d'identification du film

Reference number
ISO 7330:1988 (E)

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7330 was prepared by Technical Committee ISO/TC 42, *Photography*.

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Photography — 110-size cartridges — Location and dimensions of film exposure and film identification notches

0 Introduction

Integral elements of 110-size cartridges include two sets of notches.

The first set of notches, film exposure notches, enables the cartridge manufacturer to incorporate the specific notch which corresponds to the exposure which should be used for a particular film in the cartridge. This notch automatically presets some cameras to this exposure setting. The exposure may be different from that specified for the film under the lighting conditions used. For example, film with an ISO speed of 100 may be notched for ISO 64 for use in fixed-exposure cameras to take advantage of the film's overexposure latitude.

The second set of notches are film identification notches. One or more of these notches in combination represent a notch combination code number. Code numbers are listed in table 4 and may be used by the cartridge manufacturer to provide a means for film processors to identify the film. Assignment of such a code number to a specific film product is made at the request of the film manufacturer.

Neither the assignment nor incorporation of film identification notches for particular film products is required by this International Standard. However, the procedure to be followed by film manufacturers in obtaining code numbers is given in annex A. The registration function is performed, under authorization from ISO, by the National Association of Photographic Manufacturers, whose address is :

National Association of Photographic Manufacturers, Inc.
600 Mamaroneck Avenue
Harrison
NEW YORK 10528
USA

1 Scope and field of application

This International Standard specifies the dimensions and locations of two sets of notches for 110-size cartridges :

- a) film exposure notches which preset certain cameras to an exposure setting;
- b) film identification notches which indicate by a code the name of the film and the number of exposures.

This product was designed in SI units, which are therefore prime, unless specifically noted to the contrary in this International Standard.

This International Standard is intended to be used in conjunction with ISO 7261 and ISO 7374 to completely specify 110-size cartridges.

2 References

ISO 1, *Standard reference temperature for industrial length measurements.*

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications.*

ISO 7261, *Photography — 110-size cartridges — Dimensions.*

ISO 7374, *Photography — 110-size cartridges — Dimensions and format of film and backing paper.*

3 Datum referencing

3.1 Principle

The principle of datum referencing is used to relate the cartridge to a set of three mutually perpendicular datum planes in contact with the cartridge surfaces which engage mating camera parts so as to ensure proper alignment of the cartridge in the camera.

3.2 Primary datum, S

The S plane or seating datum plane is the plane of a simulated camera aperture frame and is contacted by the four "A" pads of the cartridge. (See figures 1 and 2.)

3.3 Secondary datum, R

The R plane or rail datum plane is perpendicular to the S plane and is contacted by the two "B" pads located on the film identification rail. (See figures 1 and 2.)

3.4 Tertiary datum, T

The T plane or take-up datum plane is mutually perpendicular to the S and R planes and is contacted by the T-plane rib moulded into the cartridge take-up chamber near the gear cover. (See figures 1 and 2.)