
Information to be included in specification sheets — Data projectors

*Information à inclure dans les feuilles de spécifications — Projecteurs
de données*



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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.

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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.

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Information to be included in specification sheets — Data projectors

1 Scope

This International Standard is applicable for information to be included in specification sheets about front projection type, fixed resolution and light valve system, and data projectors having a computer signal input port capable of projecting the image outputs from a computer, VCR or other devices.

NOTE 1 It also covers Data projectors that have a video signal input port as well as a computer signal input port.

NOTE 2 It is not applicable to units with a rear projection system or with a video input terminal alone.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

light valve

a system which creates an optical image by electrical means using light from a separate source

2.2

telephoto end

the maximum focal length position of the zoom lens

2.3

wide-angle end

the minimum focal length position of the zoom lens

2.4

resize

process which converts an input image signal from one resolution and dot number to an image with a different resolution or dot number

2.5

lens shift

a specific function which enables changing the location of the image on the projection screen by moving the lens vertically (up/down) and/or horizontally (left/right) without moving the projector itself

2.6

image position(a measure of the affect of lens shift)

the reference point is defined as the point on the projection screen that is intersected by the physical axis of the projection lens

up image position = (Distance between top edge and reference point)

down image position = (Distance between bottom edge and reference point)

left image position = (Distance between left edge and reference point)

right image position = (Distance between right edge and reference point)

when image position is variable by lens shift feature, maximum and minimum positions should be specified

example specification of image positions for a data projector with lens shift:

up/down 1:10 to 10:1, right /left 1:3 to 3:1

this means that the up image position with maximum lens shift upward is 10 times the up image position with no lens shift

similarly the down image position with maximum lens shift downward is 10 times the down image position with no lens shift

likewise, the right image position with maximum lens shift right is 3 times the right image position with no lens shift

likewise, the left image position with maximum lens shift is 3 times the left image position with no lens shift

note that if there is no lens shift in the horizontal direction right/left 1:1 would be the value given for right/left image position.

2.7

front projection system

a projection system (of a projector) focuses an image onto a screen by projected light. The image from a light-reflecting screen is viewed from the projector side of the screen

2.8

rear projection system

a projection system (of a projector) focuses an image onto a screen by projected light

NOTE The image is viewed from the opposite side of the light transmitting screen.

3 Measuring methods and conditions

Annex B (informative) shows measuring methods and conditions for the performance specification items in Table 1.

4 Items in specification sheets

Item, item specification and specification examples are shown in Table 1. They are fundamental properties, which must be included in the specification sheets.

The lower-limit values of the projector must maintain 80% of the values in specification sheets for the brightness, contrast ratio and light output uniformity.

The specification sheets must have a statement, which says that they are made in accordance with this standard.

They must use the same number as Table 1 exactly.

Items may be omitted if the projector has no function for it. When an item is omitted, numbers of the following items may not be changed.

An example specification sheet is shown in Annex A (normative).

NOTE When items and values are extracted from specification sheets, they can be listed in any order and their number may not be specified.