



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS X 6911 : 2003

(JBMIA)

**Information to be included
in specification sheets—
Data projector**

ICS 35.180; 37.100.99

Reference number : JIS X 6911 : 2003 (E)

PROTECTED BY COPYRIGHT

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from the Japan Business Machine and Information System Industries Association (JBMIA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law. Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

Date of Establishment: 2003-06-20

Date of Public Notice in Official Gazette: 2003-06-20

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Information
Technology

JIS X 6911:2003, First English edition published in 2003-09

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2003

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

PROTECTED BY COPYRIGHT

Contents

	Page
1 Scope	1
2 Definitions	1
2.1 light valve	1
2.2 telephoto end	1
2.3 wide-angle end	1
2.4 resize	1
2.5 lens shift	1
2.6 shift amount	1
2.7 front projection system	1
2.8 rear projection system	1
3 Measuring methods and conditions	1
4 Items in specification sheets	2
Annex 1 (normative) Specification sheets	6
Annex 2 (informative) Measuring Methods and Conditions	9

Information to be included in specification sheets—Data projector

1 Scope This Japanese Industrial Standard specifies information to be included in specification sheets (hereafter referred to as “information of specification sheets”) for front projection type, fixed resolution and light valve system data projectors having a computer signal input port and are capable of projecting the image outputs from a computer, VCR or other devices.

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

2 It is not applicable to the projectors of rear projection type or the front projection type projectors having a video input terminal alone.

2 Definitions For the purposes of this Standard, the following definitions apply.

2.1 light valve The system which focuses optically into the screen image of the images electrically created on the display device by using the separated light source from the display device.

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 Convert process from resolution and dot number of input image signal to the specific resolution or dot number.

2.5 lens shift Projection lens' moving action or operation state, without bringing out any trapezium distortion by shifting up-down and left-right the projectile.

2.6 shift amount There are two shift amounts, up-down shift amount and left-right shift amount. There shall be the reference point where the light axis of projection lens intersects the perpendicular plane to the light axis of projection lens. The up-down shift amount is the ratio of the distance between the reference point and the top-edge of projected image to the distance between the reference point and the bottom-edge of projected image. The left-right shift amount is the ratio of the distance between the reference point and the left-edge of projected image to the distance between the reference point and the right-edge of projected image.

2.7 front projection system A system to form projected light as an image on a screen for projector user to use reflection from the screen as an image.

2.8 rear projection system A system to form projected light as an image on a screen for projector user to use transmitted light through the screen as an image.

3 Measuring methods and conditions Annex 2 (informative) shows measuring methods and conditions in relation to performance specification items in Table 1.

4 Items in specification sheets Items, specification contents and specification examples are shown in Table 1. They are constituent that shall be listed in specification sheet.

Who are in charge of registration to the specification sheets shall inscribe 80 % of this listed value as the lower limit value for shipping, of average luminous efficacy (brightness), contrast ratio and circumferential illumination ratio.

The specification sheets shall have a statement which mentions that it is made in accordance with this Standard. And they shall use exactly the same number listed in Table 1.

Items may be omitted if the function is not equipped. When it is omitted, the following numbers of items cannot be brought forward.

Specification sheets' form is shown in Annex 1 (normative).

Remarks : When items and values were extracted from specification sheets and listed on catalogue, they may be listed in any order and their number is not specified especially.

Table 1 Performance specification item

No.	Item	Specification content	Specification example (informative)
1	Product name, type name, and/or model number	The product name, type name, etc.	
2	Display system	The type of light valve shall be indicated.	a) LCD, micro mirror, etc. b) transmitting, reflecting c) single display element, three display elements, etc.
3	Optical system	The optical systems for separation and convergence shall be indicated.	a) Dichroic mirror separation/prism convergence system b) Time sharing separation/convergence system c) others
4	Display device		
4.1	Size of effective display area	Size, number of panels and aspect ratio shall be indicated.	1.3" × 3, aspect ratio 4:3
4.2	Number of pixels	The number of pixels per panel, number of panels, and total number of pixels shall be indicated.	480 000 pixels (800 × 600) × 3, 1 440 000 pixels in total
4.3	Other additional item	Characteristics of display device shall be indicated.	without micro lens

Table 1 (continued)

No.	Item	Specification content	Specification example (informative)
5	Projection lens		
5.1	Zoom	Zoom magnifications shall be indicated.	Power zoom (1 to 1.4 times)
5.2	Focus	Method of focus adjustment shall be indicated.	Manual, or powered
5.3	Lens shift	Shift amount, fixed or variable, and manual or powered shall be indicated.	Available in form of 10:1 in case of fixed, ○:○ to ○:○ in case of variable
5.4	Focal length (f) Aperture	Up-down may be omitted in case of up-down shift amount.	$f = 52 \text{ mm to } 73 \text{ mm}$ F2.5 to F2.9
6	Light source	The light source lamp type (appellation), wattage, and quantity shall be indicated. Lamp number may be omitted if it is one.	300 W metal halide lamp
7	Screen size [Projection distance]	The minimum and maximum sizes of a projected screen shall be indicated. The associated projection distance shall also be indicated. Tele edge is for minimum size and wide edge for maximum size in case of zoom lens.	Type 23 (minimum) to Type 300 (maximum) (projection distance: 1.2 m to 11.5 m)
8	Number of reproducible colours	The maximum number of reproducible colours shall be indicated.	16 700 000 colours (Full-colour reproduction)
9	Luminous efficacy (brightness)	Luminous efficacy (brightness) on a projected screen shall be measured and indicated.	Average value of shipment shall be indicated. 800 lm (see 2.2 of Annex 2)
10	Contrast ratio (full white/full black)	The ratio between the white and black areas of images shall be indicated.	Average value of shipment shall be indicated. (see 2.3 of Annex 2)
11	Circumferential illumination ratio	The ratio between the centre luminance and 4-peripheral-point average luminance of a full-white image shall be indicated.	Average value of shipment shall be indicated. 85 % (see 2.4 of Annex 2)
12	Audio output	The output power shall be indicated. Either stereo or monaural shall be indicated as well.	10 W + 10 W stereo (see 3 of Annex 2)
13	Speaker	The diameter and quantity shall be indicated.	ø5 cm × 2