Guidelines for
Data Projector Indications

Third Edition

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Projector Terminology Working Group
Japan Business Machine and Information System Industries Association
(JBMIA)

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   A List of Members of Projector Terminology Working Group 26

1. Purpose

The purpose of these Guidelines is to unify indications used by products of each company so that users can use the products with ease.

2. Scope

These Guidelines are designed to cover Japanese and English terminology of the following items regarding data projectors. The indications in any other language shall be based on the translation from English or Japanese version.

- Parts and accessories in user's manual
- Operating buttons on main unit and remote control
- Signal input/output terminals on main unit
- Indicators on main unit
- Functions related to power operation
- Functions related to aspect ratio of the projected image

Data projectors in these Guidelines shall mean front projection type projectors with computer inputs and capable of enlarging images, used for general conferences and educational sites.

3. Indication Method

Any name not set forth in the table shall be excluded from these guidelines.

All the names listed in the table do not necessarily have to be listed or described.

Following indications are permitted in the discretion of a manufacturer.

※ Alternative indications using icons.

※ Indications using uppercases, lowercases and blank space and symbols such as periods (.), slashes (/), and hyphens (-).

※ In the case where functions covered are unique to a manufacturer.

※ The indication in Japanese shall allow the use of alphabets, katakana, long sound phonetic letters if the source is in English.
(Example:「コンピュータ」, etc.)

3.1. Parts of the main unit in user's manual

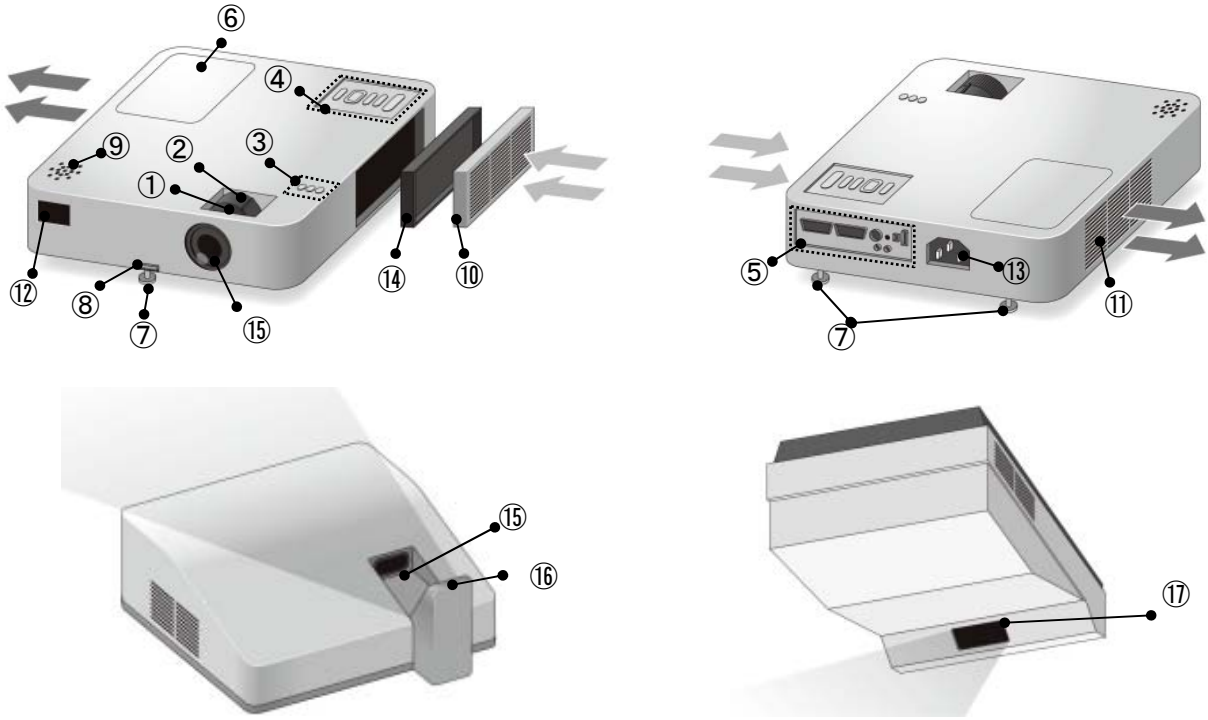
※ Illustrations used in this clause are conceptual diagrams to check on parts defined in these guidelines.

※ Abbreviations shall be permitted only when indication spaces are limited.
(Example: "INPUT/OUTPUT" → "I/O")

※ An additional word or an abbreviation may be added before or after an indication at the discretion of

※ An additional word which indicates the place or adjustment may be added, and the way of description is at the discretion of a manufacturer (Example in English: FOOT→ REAR ADJUSTABLE FOOT; Example in Japanese: フット→後部角度調整脚).

3.1.1. Indication in English



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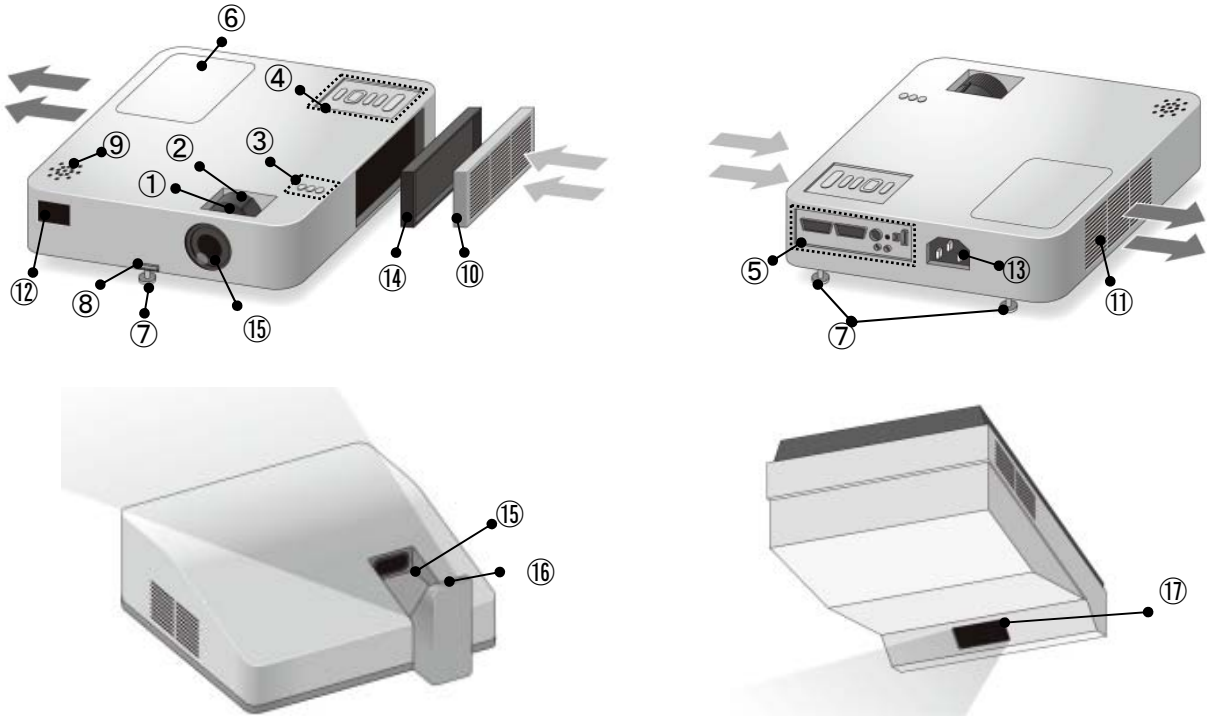
	Part description	**Indication method**	Example of indication
①	Operation part for image focus adjustment	**Indication including "FOCUS"**	FOCUS RING FOCUS LEVER
②	Operation part to enlarge or minimize a whole image	**Indication including "ZOOM"**	ZOOM RING ZOOM LEVER
③	Indicator to show the status of the main unit	**Indication including "INDICATOR"**	POWER INDICATOR INDICATOR PANEL
④	Generic name of the button area to operate the main unit	**Indication including "CONTOROL" or "OPERATION"**	CONTROLS OPERATION PANEL
⑤	Generic name of the INPUT/OUTPUT terminal port	**PORT** **TERMINAL** **INPUT / OUTPUT**	PORTS TERMINALS I/O PANEL

	Part description	**Indication method**	Example of indication
⑥	Part to cover the lamp unit	**LAMP COVER** **LAMP UNIT COVER**	LAMP COVER
⑦	Part to adjust the tilt and height of the main unit (*A)	**Indication including “FOOT”**	FRONT FOOT ADJUSTABLE FEET
⑧	Button or lever to adjust the tilt and height of the main unit	**Indication including “FOOT” or “terms to indicate adjustment” and “design name”**	FOOT LEVER ADJUSTABLE LEVER
⑨	Built-in speaker	**SPEAKER**	SPEAKER
⑩	Intake port of ambient air for cooling	**Indication including “INTAKE”**	INTAKE VENT INTAKE PORT
⑪	Exhaust port in the main unit	**Indication including “EXHAUST”**	EXHAUST VENT EXHAUST PORT
⑫	Sensor/Receiver of the remote control (*B).	**REMOTE CONTROL SENSOR** **REMOTE CONTROL RECEIVER**	REMOTE CONTROL SENSOR REMOTE CONTROL RECEIVER
⑬	Power socket of the main unit	**Indication including “AC” or “POWER”**	AC IN TERMINAL POWER SOCKET
⑭	Element to prevent dust inflow into the main unit	**Indication including “FILTER”**	FILTER AIR FILTER
⑮	Lens area for projection	**Indication including “LENS”**	LENS PROJECTION LENS
⑯	Mirror area for reflection of the projection light	**Indication including “MIRROR”**	MIRROR
⑰	Output area of the reflected projection light in the main unit	**PROJECTION WINDOW**	PROJECTION WINDOW

*A: Addition of terms indicating adjustment is at the discretion of a manufacturer.

*B: ① Addition of signal types such as infrared light is at the discretion of a manufacturer, ② Indication of REMOTE alone is permitted, ③ Indications used at the transmission/emission portion of the remote control shall include “TRANSMITTER” or “EMITTER”.

3.1.2. Indication in Japanese



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	Part description	**Indication method**	Example of indication
①	Operation part for image focus adjustment	**Indication including “フォーカス”**	フォーカスリング フォーカスレバー
②	Operation part to enlarge or minimize a whole image	**Indication including “ズーム”**	ズームリング ズームレバー
③	Indicator to show the status of the main unit	**Indication including “インジケータ”**	電源インジケータ インジケータ部
④	Generic name of the button area to operate the main unit	**Indication including “操作部” or ”操作パネル”**	操作部 操作パネル
⑤	Generic name of the INPUT/OUTPUT terminal port	**Indication including “端子” and clearly imply the generic name.**	接続端子部 入出力端子パネル
⑥	Part to cover the lamp unit	**ランプカバー** **ランプユニットカバー**	ランプカバー ランプユニットカバー
⑦	Part to adjust the tilt and height of the main unit (*A).	**Indication including “脚”**	調整脚 後部調整脚
⑧	Button or lever to adjust the tilt and height of the main unit.	**Indication including “脚” or “調整を示す用語” and “構造名称”**	脚ボタン 高さ調整レバー 角度調整用ボタン

	Part description	**Indication method**	Example of indication
⑨	Built-in speaker	**スピーカ**	スピーカ
⑩	Intake port of ambient air for cooling	**吸気口** **吸気孔**	吸気口 吸気孔
⑪	Exhaust port in the main unit	**排気口** **排気孔**	排気口 排気孔
⑫	Sensor/Receiver of the remote control (*B)	**リモコン受光部** **リモコン受信部**	リモコン受光部 リモコン受信部
⑬	Power socket of the main unit	**Indication including "AC" or "電源"**	AC IN 端子 電源端子 電源コード接続部
⑭	Element to prevent dust inflow into the main unit	**Indication including "フィルタ"**	フィルタ
⑮	Lens area for projection	**Indication including "レンズ"**	レンズ 投写レンズ
⑯	Mirror area for reflection of the projection light	**Indication including "ミラー"**	ミラー
⑰	Output area of the reflected projection light in the main unit	**Indication including "窓"**	投写窓 投映窓

*A: Addition of terms indicating adjustment is at the discretion of a manufacturer.

*B: ① Addition of signal types such as infrared light is at the discretion of a manufacturer, ② Indications used at the transmission/emission portion of the remote control shall include "送信部", "発信部" or "発光部".

3.2. Accessories in user's manual

3.2.1. Indication in English

Item	**Indication Example**	Remarks
Power cord	**POWER CORD**	"POWER CABLE" is permitted.
Computer cable	**COMPUTER CABLE** **COMPUTER CABLE (D-sub15)**	Addition of terminal type information is at the discretion of a manufacturer.
DVI-D cable	**DVI-D CABLE**	The indication "-D" shall not be omitted to clearly identify the type of a terminal.
DVI-I cable	**DVI-I CABLE**	The indication "-I" shall not be omitted to clearly identity the type of a terminal.
HDMI cable	**HDMI CABLE**	
USB cable	**USB CABLE**	
Lens protector	**LENS CAP** **LENS COVER**	
Remote control	**REMOTE CONTROL** **REMOTE**	① Addition of wired/wireless is at the discretion of a manufacturer. ② Addition of signal types is at the discretion of a manufacturer.

3.2.2. Indication in Japanese

Item	**Indication Example**	Remarks
Power cord	**電源コード**	"電源ケーブル" is permitted.
Computer cable	**コンピュータケーブル** **コンピュータケーブル (D-sub15)**	Addition of terminal type information is at the discretion of a manufacturer.
DVI-D cable	**DVI-D ケーブル**	The indication "-D" shall not be omitted to clearly identify the type of a terminal.
DVI-I cable	**DVI-I ケーブル**	The indication "-I" shall not be omitted to clearly identity the type of a terminal.
HDMI cable	**HDMI ケーブル**	
USB cable	**USB ケーブル**	

Item	**Indication Example**	Remarks
Lens protector	**レンズキャップ** **レンズカバー**	
Remote control	**リモコン**	① Addition of wired/wireless is the discretion of a manufacturer. ② Addition of types of signal is the discretion of a manufacturer.

3.3. Operation buttons on the main unit and remote control

※ Abbreviations shall be permitted only when spaces are limited.

※ An additional word or an abbreviation may be added before or after an indication at the discretion of a manufacturer only when it is insufficient. (Example: COMPUTER 1, etc.)

※ Any indication consisting of 2 or more words may be put together into a group or may be divided at the discretion of a manufacturer is permitted.

3.3.1. Indication in English

Part	**Indication method**	Remarks
Main power	**MAIN** **ON** **OFF**	It shall conform to applicable standards (safety standard, etc.).
Power	**POWER** **STANDBY** **ON** **OFF**	It shall conform to applicable standards (safety standard, etc.).
Input switching	**INPUT** **SOURCE**	
Individual image switching (Direct image switching)	**COMPUTER** **VIDEO** **S-VIDEO**	For any other input, indications shall basically match the terminal on the main unit.
Focus	**FOCUS**	① An indication for manual focusing may be determined at the discretion of each manufacturer. ② Indications for manual or powered controls may be determined at the discretion of each manufacturer.

Part	**Indication method**	Remarks
Zoom	**ZOOM**	① An indication for manual zooming may be determined at the discretion of each manufacturer. ② Indications for manual or powered controls may be determined at the discretion of each manufacturer. ③ "Zoom" shall mean any function to enlarge or minimize a whole image (it does not mean functions to enlarge or minimize a part of an image).
Lens shift	**LENS SHIFT**	Indications for manual or powered controls may be determined at the discretion of each manufacturer.
Keystone correction	**KEYSTONE**	
Non-display of image	**BLANK**	Any function to stop displaying only images
Mute	**MUTE** **MUTING**	
Non-display of image and mute	**AV MUTE** **AV MUTING** **BLANK**	① "AV MUTE" and "AV MUTING" are permitted as both AUDIO and VISUAL are halted. ② "BLANK" is permitted as the non-display of image is primary while the mute is secondary.
Changing aspect ratio	**RESIZE** **ASPECT**	

Part	**Indication method**	Remarks
Partial enlargement	**MAGNIFY** **Any indication containing the word "ZOOM"** **(D.ZOOM, E-ZOOM, etc.)**	① "Partial enlargement" shall mean any function to enlarge/minimize only a part of an image. ② When using any indication containing the word "ZOOM", a terminology to distinguish between whole and partial image enlargement/minimization shall be added.
Next page Previous page	**Any indication containing the word "PAGE"** **(PAGE UP/DOWN, PAGE +/-)**	Indications referring to next/previous pages may be determined at the discretion of each manufacturer.
Pause	**FREEZE**	
Volume	**VOLUME**	The abbreviation shall be either "VOL" or "VOL."

3.3.2. Indication in Japanese

Part	**Indication method**	Remarks
Main power	**主電源** **電源スイッチ** **入** **切**	It shall conform to applicable standards (safety standard, etc.). It shall be distinguished from the power button.
Power	**電源** **待機、スタンバイ** **入** **切**	It shall conform to applicable standards (safety standard, etc.). It shall be distinguished from the main power.
Input switching	**Any indication containing the word "入力"** **インプット**	
Individual image switching (Direct image switching)	**コンピュータ** **ビデオ** **S-ビデオ**	For any other input, indications shall basically match the terminal on the main unit.

Part	**Indication method**	Remarks
Focus	**フォーカス** **焦点**	① An indication for manual focusing may be determined at the discretion of each manufacturer. ② Indications for manual or powered controls may be determined at the discretion of each manufacturer.
Zoom	**ズーム**	① An indication for manual zooming may be determined at the discretion of each manufacturer. ② Indications for manual or powered controls may be determined at the discretion of each manufacturer. ③ “ズーム” shall mean any function to enlarge or minimize a whole image (it does not mean functions to enlarge or minimize a part of an image).
Lens shift	**レンズシフト**	Indications for manual or powered controls may be determined at the discretion of each manufacturer.
Keystone correction	**Any indication containing the word “台形”** **キーストーン**	The word “台形” shall be used in combination with the words that signify adjustment or compensation.
Non-display of image	**ブランク** **映像消去**	Any function to stop displaying only images
Mute	**ミュート** **消音**	
Non-display of image and mute	**AV ミュート** **ブランク**	“ブランク” is permitted as the non-display of image is the main function while the mute is the sub-function.
Changing aspect ratio	**リサイズ** **アスペクト**	

Part	**Indication method**	Remarks
Partial enlargement	**Any indication containing the word “ズーム” or “拡大”** **（D.ズーム、E-ズーム、etc）**	① “部分拡大” shall mean any function to enlarge/minimize only a part of an image. ② A terminology to distinguish between whole and partial image enlargement/minimization shall be added.
Next page Previous page	**Any indication containing the word “ページ”** **（ページ送り、ページ戻し、etc）**	Indications referring to next/previous pages may be determined at the discretion of each manufacturer.
Pause	**静止** **フリーズ**	
Volume	**音量**	

3.4. Signal input/output terminals on main unit

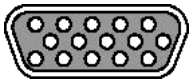
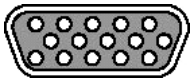
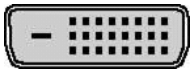
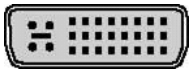
※ Abbreviations shall be permitted only when spaces are limited.

※ An additional word or an abbreviation may be added before or after an indication at the discretion of a manufacturer only when it is insufficient (Example: COMPUTER 1, AUDIO IN, etc.).

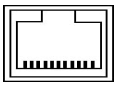
※ Any indication consisting of 2 or more words may be put together into a group or may be divided at the discretion of each manufacturer.

※ Indications for input signals via conversion cables shall be determined at the discretion of each manufacturer.

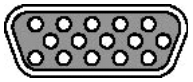
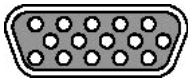
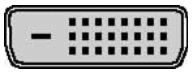
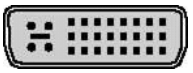
3.4.1. Indication in English

Part	Signal	**Indication Method**	Remarks
Mini D-sub 15 pin 	Computer input signal	**COMPUTER**	
Mini D-sub 15 pin 	Computer output signal	**MONITOR OUT**	
DVI-D 	DVI (Digital)	**DVI-D**	The indication “-D” shall not be omitted to clearly identify the type of a terminal.
DVI-I 	DVI (Analog/Digital)	**DVI-I**	The indication “-I” shall not be omitted to clearly identify the type of a terminal.
RCA	Composite video signal	**VIDEO**	
Mini DIN 4 pin	S VIDEO signal	**S-VIDEO**	
RCA	Y Pb Pr Y Cb Cr Component video signal	**Y Pb Pr** **Y Cb Cr**	Adding the word “COMPONENT” may be determined at the discretion of each manufacturer.

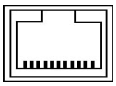
Part	Signal	**Indication Method**	Remarks
HDMI	HDMI	**(See remarks)**	It shall conform to guidelines of HDMI licensing LLC.
DisplayPort	DisplayPort	**(See remarks)**	It shall conform to guidelines of VESA.
Stereo mini jack	Audio input signal	**AUDIO** **AUDIO IN**	Indications for multiple audio terminals may be put together into a group.
RCA	Audio input signal	**AUDIO** **AUDIO L R** **AUDIO IN** **AUDIO IN L R**	① Indications for multiple audio terminals may be put together into a group. ② Combinations of L and R and the indications may be determined at the discretion of each manufacturer. ③ An indication for monophonic audio may be determined at the discretion of each manufacturer.
Stereo mini jack	Audio output signal	**AUDIO OUT**	Any indication clearly distinguishing input and output terminals shall be used.
RCA	Audio output signal	**AUDIO OUT L R**	Any indication clearly distinguishing input and output terminals shall be used.

Part	Signal	**Indication Method**	Remarks
RJ-45 	Network	**LAN**	Conform to 15 JEITA - Digital home electronics No. 539
Stereo mini jack	Remote control	**REMOTE**	

3.4.2. Indication in Japanese

Part	Signal	**Indication Method**	Remarks
Mini D-sub 15 pin 	Computer input signal	**コンピュータ**	
Mini D-sub 15 pin 	Computer output signal	**モニタ出力**	
DVI-D 	DVI (Digital)	**DVI-D**	The indication “-D” shall not be omitted to clearly identify the type of a terminal.
DVI-I 	DVI (Analog/Digital)	**DVI-I**	The indication “-I” shall not be omitted to clearly identify the type of a terminal.
RCA	Composite video signal	**ビデオ**	
Mini DIN 4 pin	S VIDEO signal	**S-ビデオ**	
RCA	Y Pb Pr Y Cb Cr コンポーネントビデオ信号	**Y Pb Pr** **Y Cb Cr**	Adding the word “コンポーネント” may be determined at the discretion of each manufacturer.

Part	Signal	**Indication Method**	Remarks
HDMI	HDMI	**(See remarks)**	It shall conform to guidelines of HDMI licensing LLC.
DisplayPort	DisplayPort	**(See remarks)**	It shall conform to guidelines of VESA.
Stereo mini jack	Audio input signal	**音声** **音声入力**	Indications for multiple audio terminals may be put together into a group.
RCA	Audio input signal	**音声** **音声　左　右** **音声　L R** **音声入力** **音声入力 左 右** **音声入力 L R**	① Indications for multiple audio terminals may be put together into a group. ② Combinations of L and R and the indications may be determined at the discretion of each manufacturer. ③ An indication for monophonic audio may be determined at the discretion of each manufacturer.
Stereo mini jack	Audio output signal	**音声出力**	Any indication clearly distinguishing input and output terminals shall be used.
RCA	Audio output signal	**音声出力** **音声出力 左 右** **音声出力　L R**	Any indication clearly distinguishing input and output terminals shall be used.

Part	Signal	**Indication Method**	Remarks
RJ-45 	Network	**LAN**	Conform to 15 JEITA - Digital home electronics No. 539
Stereo mini jack	Remote control	**リモート** **リモコン**	

3.5. Indicators on main unit

※ The following indications of indicators shall be used for status, cautions, warnings and errors on main unit.

※ Combinations of multiple indicators are permitted.

3.5.1. Indication in English

Indication	Description
POWER	Indicating status, cautions, warnings and errors of power
LAMP	Indicating status, cautions, warnings and errors of lamps
LIGHT	Indicating status, cautions, warnings and errors of lights
TEMP	Indicating status, cautions, warnings and errors of temperatures
WARNING	Indicating warnings and errors
STATUS	Indicating status, cautions, warnings and errors on main unit
FILTER	Indicating status, cautions, warnings and errors of filters

3.5.2. Indication in Japanese

Indication	Description
電源	Indicating status, cautions, warnings and errors of power
光源	Indicating status, cautions, warnings and errors of lamps or lights
温度	Indicating status, cautions, warnings and errors of temperatures
警告	Indicating warnings and errors
状態	Indicating status, cautions, warnings and errors on main unit
フィルタ	Indicating status, cautions, warnings and errors of filters

3.6. Functions related to power operation

※ Abbreviations shall be permitted only when spaces are limited.

※ An additional word or an abbreviation may be added before or after an indication at the discretion of a manufacturer only when it is insufficient.

3.6.1. Indication in English

Function	**Indication Method**	Remarks
Function to turn the power on at the time of power cord connection	**Indication using "DIRECT" and "ON"**	Indication using "AUTO" and "ON" is also permitted.
Function to allow disconnection of the power cord without power-off operation	**Indication using "DIRECT" and "OFF"**	① The word "QUICK" shall not be used. ② The word "OFF" can be replaceable with any word indicating power-off such as SHUTDOWN.
Function to allow disconnection of the power cord during the cool-down period after the power has been turned off.	**Indication using "QUICK" and "OFF"**	① The word "DIRECT" shall not be used. ② The word "OFF" can be replaceable with any word indicating power-off such as SHUTDOWN.

3.6.2. Indication in Japanese

Function	**Indication Method**	Remarks
Function to turn the power on at the time of power cord connection	**Indication using "ダイレクト" and "オン"**	Indication using "オート" and "オン" is also permitted.
Function to allow disconnection of the power cord without power-off operation	**Indication using "ダイレクト" and "オフ"**	① The word "クイック" shall not be used. ② The word " オフ" can be replaceable with any word indicating power-off such as . "シャットダウン"
Function to allow disconnection of the power cord during the cool-down period after the power has been turned off.	**Indication using "クイック" and "オフ"**	① The word "ダイレクト" shall not be used. ② The word " オフ" can be replaceable with any word indicating power-off such as "シャットダウン"

3.7. Functions related to aspect ratio of the projected image

※ The projected image described in this clause shall mean a post-processed image if software process such as keystone correction is applied.

※ Abbreviations shall be permitted only when spaces are limited.

※ An additional word or an abbreviation may be added before or after an indication at the discretion of a manufacturer only when it is insufficient.

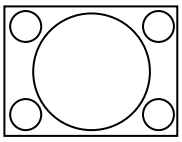
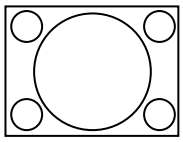
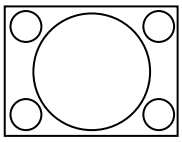
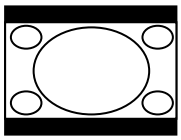
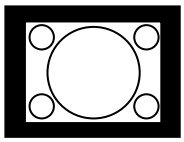
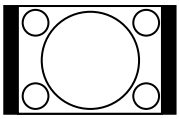
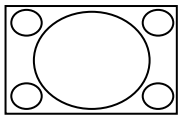
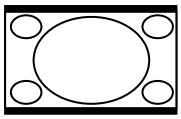
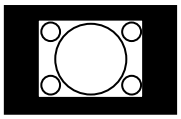
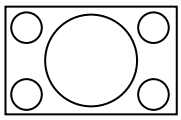
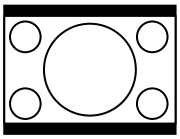
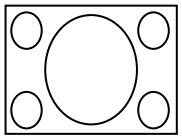
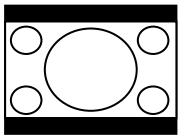
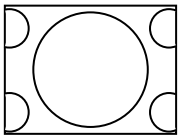
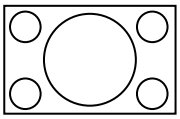
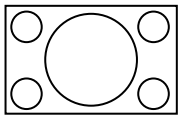
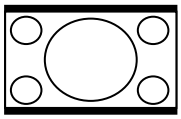
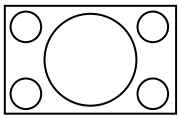
3.7.1. Indication in English

Function	**Indication Method**	Remarks
Setting to expand image to the full alongside width/height while maintaining the aspect ratio of input image	**NORMAL** **AUTO**	
Setting to project input image to the whole projected area	**FULL** **X:Y (aspect ratio of projected image)**	The dimensions of X (width) and Y (height) shall be described in numbers.
Setting to project input image to the full alongside width using a wide ratio	**WIDE** **X:Y(aspect ratio of projected image)**	The dimensions of X (width) and Y (height) shall be described in numbers.
Setting to project input image with its original	**NATIVE** **TRUE**	

3.7.2. Indication in Japanese

Function	**Indication Method**	Remarks
Setting to expand image to the full alongside width/height while maintaining the aspect ratio of input image	**ノーマル** **標準** **オート** **自動**	
Setting to project input image to the whole projected area	**フル** **X:Y（投写映像のアスペクト比）**	The dimensions of X (width) and Y (height) shall be described in numbers.
Setting to project input image to the full alongside width using a wide ratio	**ワイド** **X:Y（投写映像のアスペクト比）**	The dimensions of X (width) and Y (height) shall be described in numbers.
Setting to project input image with its original	**リアル**	

3.7.3. Example of setting an aspect ratio of projected image

INPUT SIGNAL	PRODUCT	NORMAL	FULL	WIDE 16 : 9	NATIVE
 800 x 600	1024 x 768				
	1280 x 800				
 1280 x 800	1024 x 768				
	1280 x 800				

4. Operation Rule

The third edition of these Guidelines shall be effective and operational on November 1, 2011.
Every manufacturer, from this date, shall make every effort to make the indications compliant with these Guidelines without delay.
The products of Non-Japanese manufactures are also asked to comply with these Guidelines to aggressively promote the creation of an environment where indications defined in these Guidelines are used in and out of Japan.

5. General Description

Many product models by Japanese and non-Japanese manufacturers are currently available on the market, and opportunity for many people to operate data projectors is sharply increasing.
On the other hand, it is likely the ease-of-use for users, especially in terms of installation and operations, has been seriously damaged because names of various operations of data projectors are not unified among manufacturers and products.
Against this background, the first edition of these guidelines was set up and unification of terminologies has been promoted. The third edition is revised one with addition of names of parts of the main unit and those of accessories which are used for illustrations in user's manual, etc.
These Guidelines are expected help many users operate data projectors with ease as indications of operational parts recommended in these Guidelines are to be implemented by each manufacturer.

Lastly, these Guidelines are designed only to specify the indications used in common among most of data projectors, not aiming at unification of all the possible indications. Projector Terminology Working Group is determined to continue its efforts to enhance user experience.

6. About Trademark

HDMI, HDMI logo and High-Definition Multimedia Interface belong to the registered trademarks or commercial logs owned by HDMI Licensing LLC.
DisplayPort, DisplayPort Logo, VESA and VESA logo belong to the registered trademarks owned by Video Electronics Standards Association.

7. Revision History

First Edition, August 2007

Second Edition, February 2010

- Indication in Japanese was added
- Filter were added in *3.3 Indicators on main unit*
- A new clause *3.4 Function Names was added*

Third Edition, November 2011

- Parts of the main unit in user's manual were added in *3.1*
- Accessories in user's manual were added in *3.2*
- DisplayPort was added in *3.4 Signal input/output terminals on main unit*.
- LIGHT was added in *3.5 Indicators on main unit*.
- Functions in *3.6* & *3.7* in the first and second edition were divided and new clauses were set up according to functional categories
- HDMI and DisplayPort were rearranged so as to conform to guidelines provided by each standard agency.

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Sub-chief of the Group	SEIKO EPSON CORPORATION	Satoshi HIRASHIMA
Sub-chief of the Group	Hitachi Consumer Electronics Co., Ltd.	Minoru KATO
Member	KAGA COMPONENTS CO.,LTD.	Hitoshi TAKAHASHI
Member	CASIO COMPUTER CO.,LTD.	Fusao NISHIURA
Member	Canon Inc.	Nobuhiko KAWAI
Member	Canon Inc.	Takanobu SUZUKI
Member	SANYO Electric Co., Ltd.	Kazuto SUGIMURA
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Member	Sony Corporation	Satoshi OHNO
Member	Panasonic Corporation	Yoshihiro MASUMOTO
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Member	Ricoh Company, Ltd.	Hiroki SHIMIZU
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Member	Canon Inc.	Fumihiko NAMAI
Member	SANYO Electric Co., Ltd.	Yasumasa SUITA
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