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The following projector manual has not been modified or altered in any way.

**HITACHI**  
Inspire the Next

Projector

**PJ-TX100**

PJ-TX100W/E/U

ENGLISH

FRANÇAIS

DEUTSCH

ESPAÑOL

ITALIANO

TECHNICAL

## User's Manual - Operating Guide

Please read this user's manual thoroughly to ensure correct usage understanding.

## Manuel d'utilisation - Guide d'utilisation

Nous vous recommandons de lire attentivement ce manuel pour bien assimiler le fonctionnement de l'appareil.

## Bedienungsanleitung - Benutzerhandbuch

Um zu gewährleisten, dass Sie die Bedienung des Geräts verstanden haben, lesen Sie dieses Handbuch bitte sorgfältig.

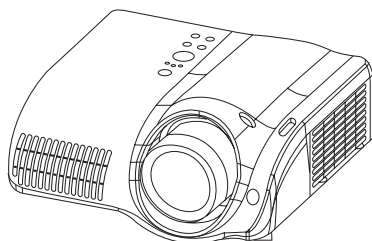
## Manual de usuario - Guía de funcionamiento

Lea atentamente el manual de usuario del proyector para garantizar un uso adecuado del mismo.

## Manuale d'istruzioni - Guida operativa

Vi preghiamo di leggere attentamente il manuale d'istruzioni per garantire una corretta comprensione delle istruzioni.

**TECHNICAL**





Thank you for purchasing this projector.

**⚠ WARNING** ▶ Before using, read the "User's Manual - Safety Guide" and these manuals to ensure correct usage through understanding. After reading, store them in a safe place for future reference.

### About this manual

Various symbols are used in this manual. The meanings of these symbols are described below.

**⚠ WARNING** This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.

**⚠ CAUTION** This symbol indicates information that, if ignored, could result possibly in personal injury or physical damage due to incorrect handling.

 Please refer to the pages written following this symbol.

**NOTE** • The information in this manual is subject to change without notice.

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ASPECT, KEYSTONE, MODE, OPTICAL BLACK, BRIGHT, CONTRAST, COLOR, TINT, SHRPNESS, WHISPER, MIRROR, RESET, FILTER TIME, LANGUAGE, Go To Advanced Menu		<b>Technical (English only)</b> (Please see the end of this book, although only in English.)	

## Projector features

This projector is used to project various computer signals as well as NTSC/PAL/SECAP video signals onto a screen. Little space is required for installation and large images can easily be realized.

***This is the entertainment projector that will turn your room into a high definition theater!***

- Super focus ED (Extra-low dispersion) lenses are adopted for the highest possible image quality.
- 720P wide LCD panels realize faithful reproduction of high-definition images.
- Motorized iris control is provided for realizing film-like images with blacker black.
- 1.6x zoom lens and the optical lens shift allow flexible installation and viewing position.

## Preparations

### About contents of package

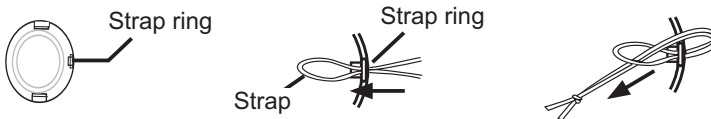
Please see the "Contents of package" of the "User's manual - Quick guide". Your projector should come with the items shown there. Contact immediately your dealer if anything is missing.

**NOTE** • Keep the original packing materials for future reshipment. For moving the projector, be sure to use the original packing material. Use special caution for the lens part.

### Fastening the lens cover

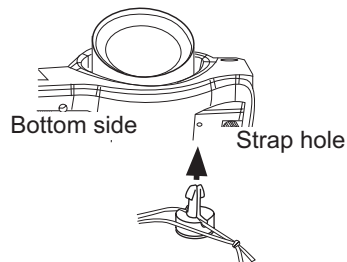
To avoid losing, please fasten the lens cover to the projector using the strap.

1. Fix the strap to the strap ring of lens cover.



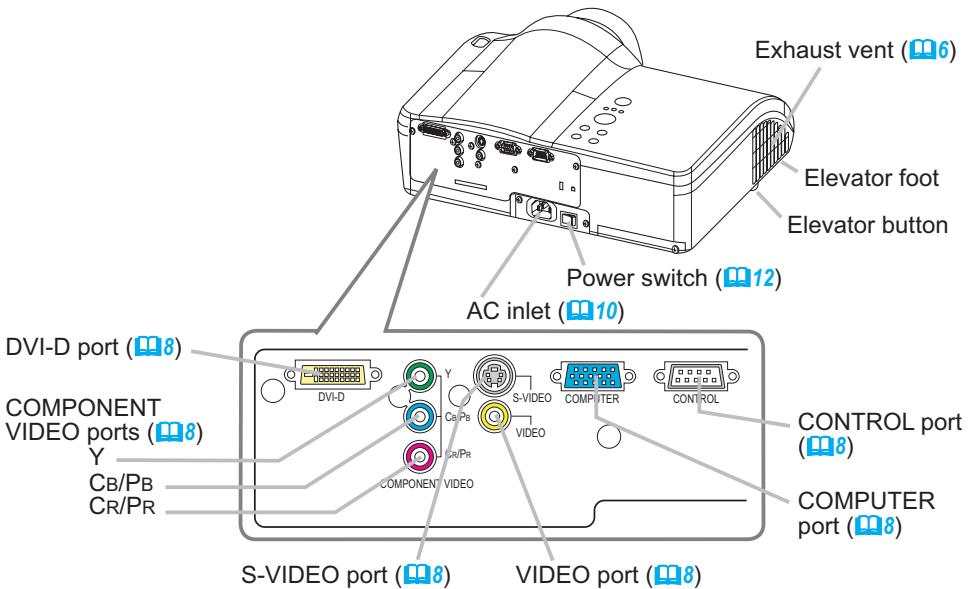
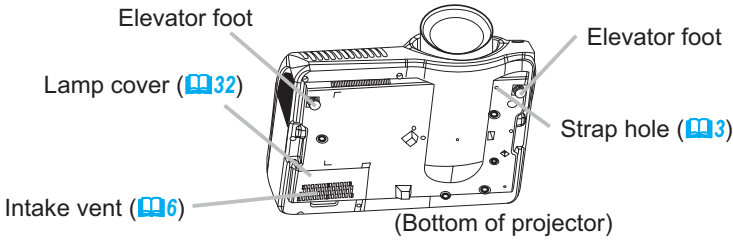
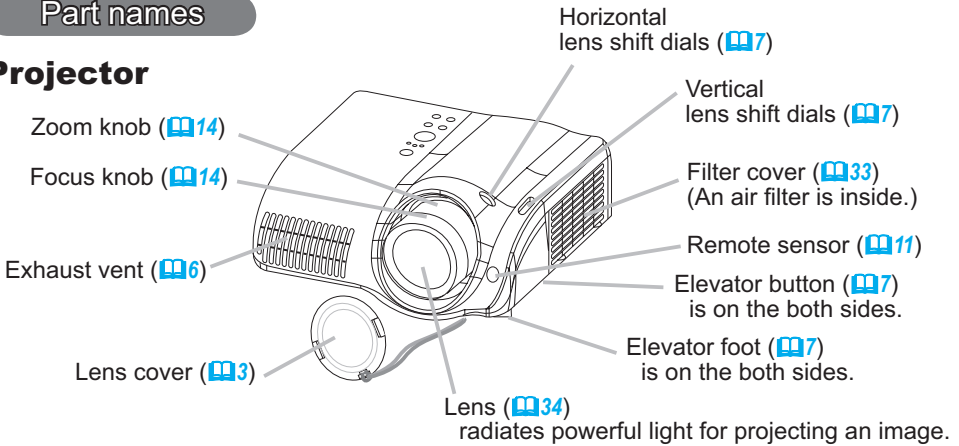
2. Put the strap into the groove on rivet.

3. Push the rivet into the strap hole.



Part names

**Projector**

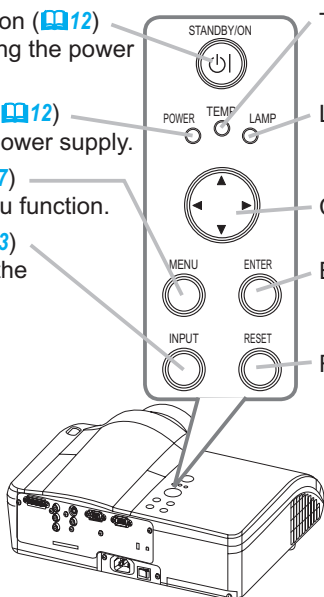
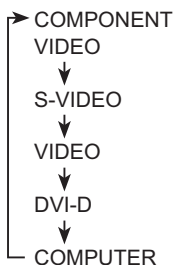


**STANDBY/ON button (12)**  
prepares for turning the power on/off.

**POWER indicator (12)**  
tells the state of power supply.

**MENU button (17)**  
operates the menu function.

**INPUT button (13)**  
toggles between the signal ports.



**TEMP indicator (37)**  
lights or blinks when any problem about internal temperature has happened.

**LAMP indicator (37)**  
light or blinks when any problem about the lamp has happened.

**Cursor buttons (17)**  
works for adjusting or menu controlling.

**ENTER button (17)**  
proceeds to the next operation at the menu functions.

**RESET button (17)**  
cancels the adjustment in progress.

\* Note that the items whose functions are performed simultaneously with operating are not reset.

## Remote control

**POWER button (12)**  
prepares for turning the power on/off.  
(the same as the STANDBY/ON button above.)

**OPT BLK button (15)**  
toggles between the modes for the optical black.

**ASPECT button (16)**  
toggles between the modes for the aspect ratio.

**Cursor buttons (17)**  
(the same as the above.)

**MENU button (17)**  
(the same as the above.)

**BRIGHT buttons (16)**  
controls the brightness of the whole screen.

**DVI button (13)**  
selects the DVI-D port input.

**PC button (13)**  
selects the COMPUTER port input.

**COMPO button (13)**  
selects the COMPONENT VIDEO port input.

**MODE button (15)**  
toggles between the modes for the picture type.

**LIGHT button (11)**  
turn on/off the back light for the remote control buttons.

**MEMORY button (16)**  
toggles between your adjustments.

**IRIS button (14)**  
toggles between the modes for the iris.

**ENTER button (17)**  
(the same as the above.)

**RESET button (17)**  
(the same as the above.)

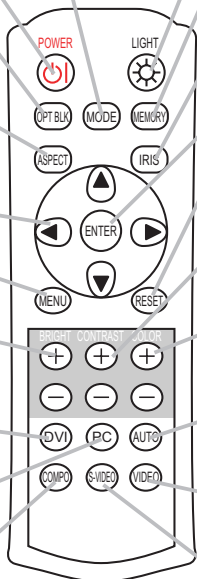
**CONTRAST buttons (16)**  
controls the contrast of the whole screen.

**COLOR buttons (16)**  
controls the color of the whole screen.

**AUTO button (14)**  
executes automatic adjustment.

**VIDEO button (13)**  
selects the VIDEO port input.

**S-VIDEO button (13)**  
selects the S-VIDEO port input.





Setting up

Arrangement

**⚠WARNING** ► Install the projector in a suitable environment according to instructions of the "User's Manual - Safety Guide".

**⚠CAUTION** ► In installation, pay attention enough to ventilation. If internal temperature rises, it could cause malfunction. Avoid blocking vents. (about the locations of vents please see [4.4](#).) This projector has some intake vents also on the bottom. Put nothing that is sucked or sticks to the bottom of projector.

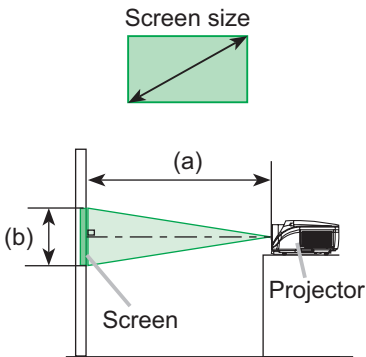
Refer to the illustrations and tables below to determine the screen size and projection distance.

The values shown in the table are calculated for a full size screen: 1280 x 720

(a) Distance from the projector to the screen (±10%)

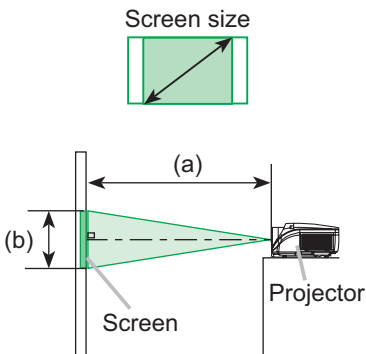
(b) The height of the screen (±10%)

At 16:9 screen size



Screen size [inch (m)]	(a)Projection distance [inch (m)]		(b)Screen height [inch (cm)]
	min.	max.	
30 (0.8)	32 (0.8)	52 (1.3)	15 (37)
40 (1.0)	43 (1.1)	70 (1.8)	20 (50)
50 (1.3)	54 (1.4)	89 (2.3)	24 (62)
60 (1.5)	66 (1.7)	107 (2.7)	30 (75)
70 (1.8)	77 (2.0)	125 (3.2)	34 (87)
80 (2.0)	89 (2.2)	143 (3.6)	39 (100)
90 (2.3)	100 (2.5)	161 (4.1)	44 (112)
100 (2.5)	111 (2.8)	179 (4.6)	49 (125)
120 (3.0)	134 (3.4)	215 (5.5)	59 (149)
150 (3.8)	168 (4.3)	270 (6.9)	74 (187)
200 (5.1)	225 (5.7)	360 (9.2)	98 (249)
250 (6.4)	281 (7.1)	451 (11.5)	122 (311)
300 (7.6)	338 (8.6)	541 (13.8)	147 (374)

At 4:3 screen size

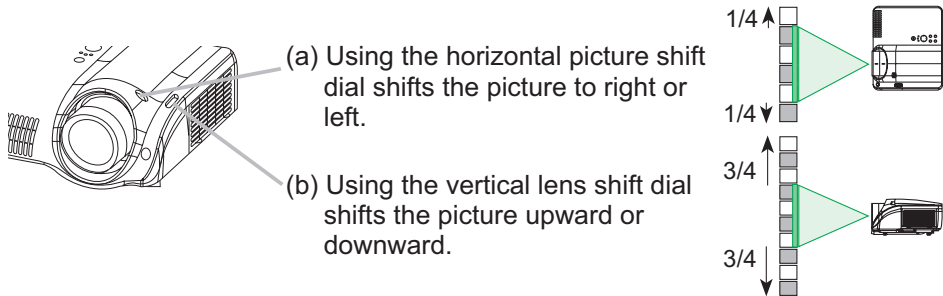


Screen size [inch (m)]	(a)Projection distance [inch (m)]		(b)Screen height [inch (cm)]
	min.	max.	
30 (0.8)	39 (1.0)	65 (1.6)	18 (46)
40 (1.0)	53 (1.4)	87 (2.2)	24 (61)
50 (1.3)	67 (1.7)	109 (2.8)	30 (76)
60 (1.5)	81 (2.1)	131 (3.3)	36 (91)
70 (1.8)	95 (2.4)	153 (3.9)	42 (107)
80 (2.0)	109 (2.8)	175 (4.5)	48 (122)
90 (2.3)	122 (3.1)	198 (5.0)	54 (137)
100 (2.5)	136 (3.5)	220 (5.6)	60 (152)
120 (3.0)	164 (4.2)	264 (6.7)	72 (183)
150 (3.8)	206 (5.2)	330 (8.4)	90 (229)
200 (5.1)	275 (7.0)	441 (11.2)	120 (305)
250 (6.4)	344 (8.7)	552 (14.0)	150 (381)
300 (7.6)	413 (10.5)	663 (16.8)	180 (457)

## Using the lens shift dials

**⚠ CAUTION** ▶ Do not put your fingers around the projection lens to prevent them from being caught by the lens and lens ring.

The Lens of this projector can be shifted horizontally and vertically. When you want to adjust the picture position, use the lens shift dials.



**NOTE** • Generally, better quality of a picture is available when the lens shift is set to the center known by each click point of the dials.

## Adjusting the projector's elevator

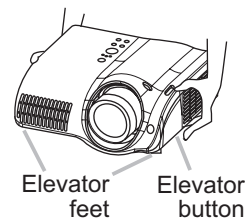
**⚠ WARNING** ▶ Do not touch about the lens and ventilation openings during use or immediately after use to prevent a burn.

**⚠ CAUTION** ▶ If you press the elevator button without holding the projector, the projector might crash down, overturn, smash your fingers and possibly result in malfunction. To prevent damaging the projector and injuring yourself, always hold the projector whenever using the elevator buttons to adjust the elevator feet.

▶ Except for inclining by the elevator feet adjustment, place the projector horizontally.

You can use the elevator feet to make adjustments if the surface on which you need to set the projector is uneven or if you otherwise need to adjust the angle of projection. The adjustment range of the elevator feet is 0 to 9 degrees.

1. Press and hold in the elevator buttons.
2. Raise or lower the projector to the desired height and the release the elevator buttons.  
When you release the elevator buttons, the elevator feet will lock into position.
3. As necessary, you can also finely adjust the height of the projector by twisting the elevator feet by hand.



## Connecting your devices

**⚠WARNING** ► Incorrect connecting could result in fire or electrical shock. Whenever attempting to connect other devices to the projector, please thoroughly read the "User's Manual - Safety Guide", this manual and the manual of each device to be connected.

**⚠CAUTION** ► Turn off all devices prior to connecting them to the projector. Attempting to connect a live device to the projector may generate extremely loud noises or other abnormalities that may result in malfunction and/or damage to the device and/or projector.

► Some cables have to be used with core set. A too long cable may cause a certain picture degradation. Use the accessory cable or a designated-type cable for the connection. Please consult with your dealer for details. For cables that have a core only at one end, connect the core to the projector.

► Make sure that you connect devices to the correct port. Incorrect connection may result in malfunction and/or damage to the device and/or projector. Refer to the section "TECHNICAL" of this manual for the pin assignment of connectors and RS-232C communication data.

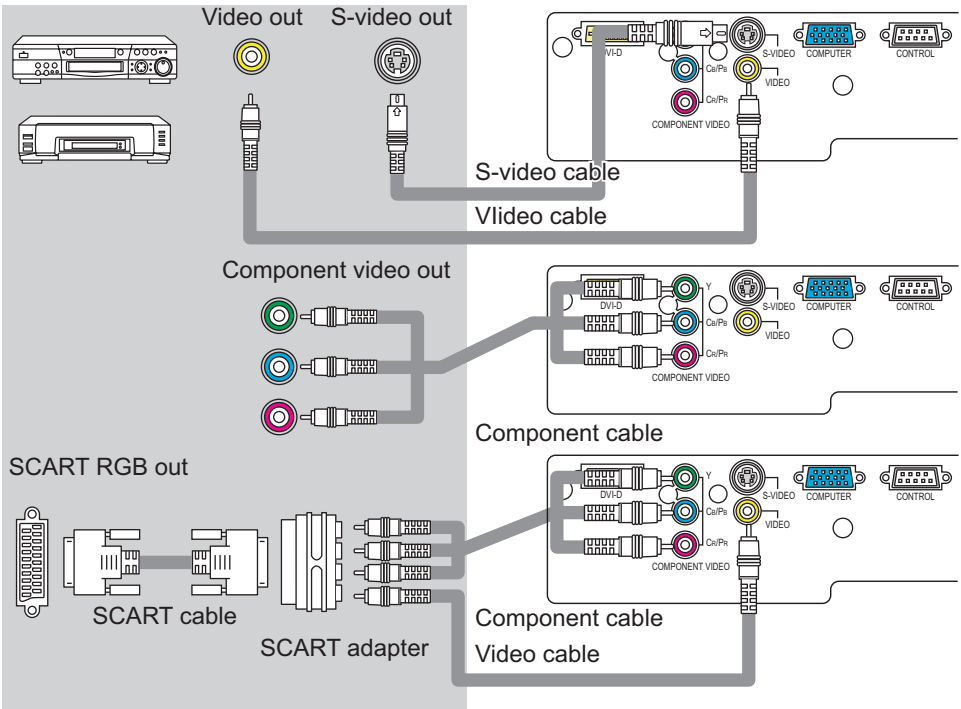
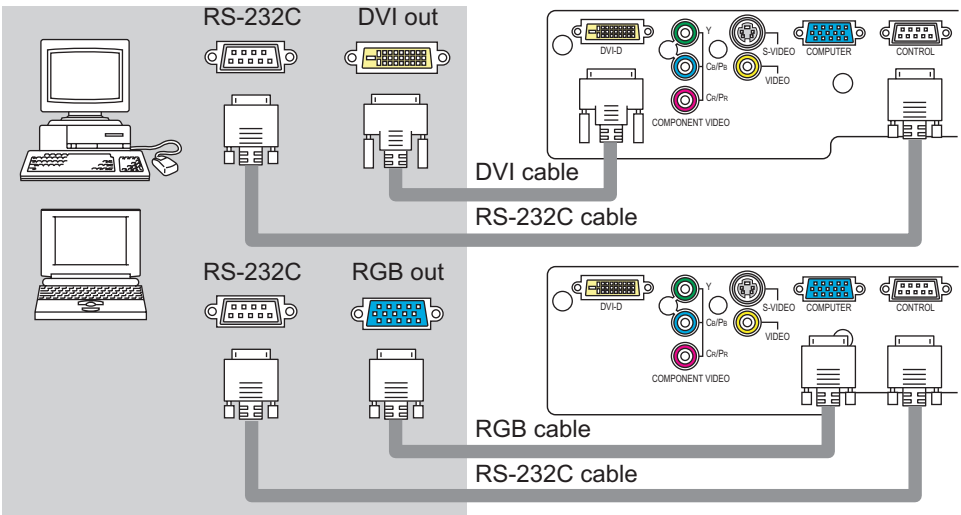
**NOTE** • Whenever attempting to connect a laptop computer to the projector, be sure to activate the laptop's RGB external image output (set the laptop to CRT display or to simultaneous LCD and CRT display). For details on how this is done, please refer to the instruction manual of the corresponding laptop computer.

- Secure the screws on the connectors and tighten.
- Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
- For some COMPUTER input modes, the optional Mac adapter is necessary.
- When the image resolution is changed on a computer, depending on an input, automatic adjust function may take some time and may not be completed. In this case, you may not be able to see a check box to select "Yes/No" for the new resolution on Windows. Then the resolution will go back to the original. It might be recommended to use other CRT or TFT monitors to change the resolution.

### About Plug-and-Play capability

Plug-and-Play is a system composed of the computer, its operating system and peripheral equipment (i.e. display devices). This projector is compatible with VESA DDC 2B. Plug-and-Play can be achieved by connecting this projector to computers that are VESA DDC (display data channel) compatible.

- Please take advantage of this function by connecting the accessory RGB cable to the COMPUTER port (DDC 2B compatible) and/or the optional DVI cable to the DVI-D port (DDC 2B compatible). Plug-and-Play may not work properly if any other type of connection is attempted.
- Please use the standard drivers in your computer as this projector is a Plug-and-Play monitor.

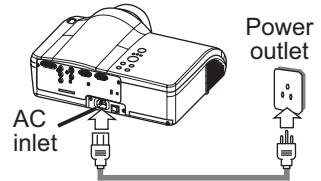


## Connecting power supply

**⚠WARNING** ► Please use extra caution when connecting the power cord as incorrect or faulty connections may result in fire and/or electrical shock.

- Only use the power cord that came with the projector. If it is damaged, contact your dealer to newly get correct one.
- Only plug the power cord into an outlet rated for use with the power cord's specified voltage range.
- Never modify the power cord. Never attempt to defeat the ground connection of the three-pronged plug.

1. Connect the connector of the power cord to the AC inlet of the projector.
2. Firmly plug the power cord's plug into the outlet.



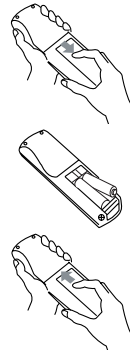
## Remote control

### Putting batteries

**⚠WARNING** ► Always handle the batteries with care and use them only as directed. Improper use may result in battery explosion, cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.

- Be sure to use only the batteries specified. Do not use batteries of different types at the same time. Do not mix a new battery with used one.
- Make sure the plus and minus terminals are correctly aligned when loading a battery.
- Keep a battery away from children and pets.
- Do not recharge, short circuit, solder or disassemble a battery.
- Do not allow a battery in a fire or water. Keep batteries in a dark, cool and dry place.
- If you observe a leakage of a battery, wipe out the flower and then replace a battery. If the flower adheres your body or clothes, rinse well with water immediately.

1. Remove the battery cover.
  - Slide back and remove the battery cover in the direction of the arrow.
2. Insert the batteries.
  - Align and insert the two AAA batteries according to their plus and minus terminals as indicated in the remote control.
3. Close the battery cover.
  - Replace the battery cover in the direction of the arrow and snap it back into place.

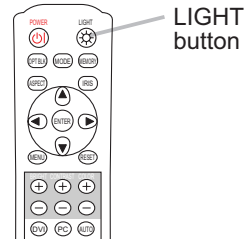


## Using the LIGHT button

To illuminate the buttons of the remote control, press the LIGHT button of it.

1. Press the LIGHT button.

If you don't push the LIGHT button again, the lights will turn off in several seconds.



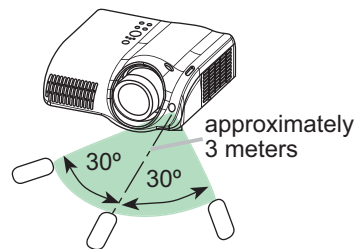
## Using the remote control

**⚠ CAUTION** ► Be careful in handling the remote control.

- Do not drop or otherwise expose the remote control to physical impact.
- Do not get the remote control wet or place it on wet objects. Doing so may result in malfunction.
- Remove the batteries from the remote control and store them in a safe place if you won't be using the remote control for an extended period.
- Replace the batteries whenever the remote control starts to malfunction.
- When strong lights, such as direct sunlight or light from an extremely close range (such as from an inverter fluorescent lamp), hit the projector's remote sensor, the remote control may cause to function. Adjust the direction of the projector to keep light from directly hitting the projector's remote sensor.

The remote control works with the projector's remote sensor.

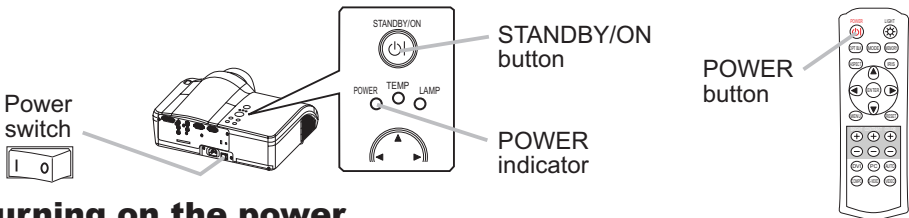
- The range of the remote sensor is 3 meters with a 60-degree range (30 degrees to the left and right of the remote sensor).
- Also a remote signal reflected in the screen etc. may be available. If it is difficult to send a remote signal to the sensor directly, please try.
- Since the remote control uses infrared light to send signals to the projector (Class1 LED), be sure to use the remote control in an area free from obstacles that could block the remote control's output signal to the projector.



## Power on/off

**⚠ WARNING** ▶ When the power is on, a strong light is emitted. Do not look into the lens or vents of the projector.

**NOTE** • Turn the power on/off in right order. Please power on the projector before the connected devices. Power off the projector after the connected devices.



### Turning on the power

1. Make sure that the power cord is firmly and correctly connected to the projector and outlet.

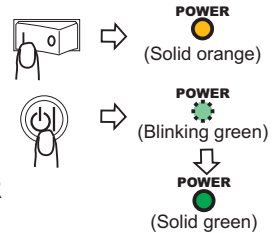
2. Remove the lens cover, and set the power switch to the ON position.

The power indicator will light to solid orange. Then wait several seconds because buttons may not function for these several seconds.

3. Press the button STANDBY/ON (projector) or POWER (remote control).

The projector lamp will light up and the POWER indicator will begin blinking green.

When the power is completely on, the indicator will stop blinking light green.



To display the picture, select an input signal according to the section "Selecting an input signal" (13). Then select the aspect ratio (13), adjust the picture position (7), and adjust the zoom and focus (14).

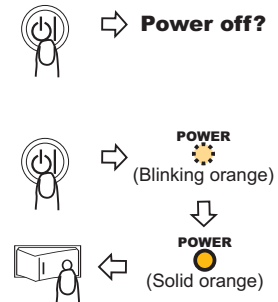
### Turning off the power

1. Press the button STANDBY/ON (projector) or POWER (remote control).  
The message "Power off?" will appear on the screen for approximately 5 seconds.

2. Press the button STANDBY/ON (projector) or POWER (remote control) again while the message is visible.

The projector lamp will go off, and the POWER indicator will begin blinking orange. Then the POWER indicator will stop blinking and light to solid orange when the lamp cooling is complete.

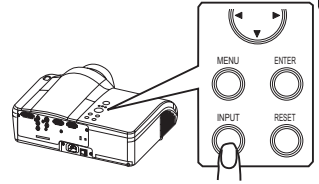
3. Set the power switch to the OFF position. The POWER indicator will go off.



Operating

### Selecting an input signal

- Using the projector's button, press the INPUT button.  
Each time you press the INPUT button, the projector switches between its input ports. Select the signal you wish to project.

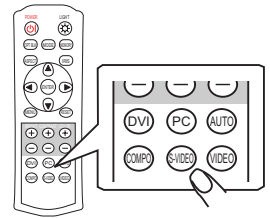


COMPONENT VIDEO → S-VIDEO → VIDEO → DVI-D → COMPUTER



- Using the remote control's button, press the button  
DVI, PC, COMPO, S-VIDEO or VIDEO according to the input port to choose.

- DVI button ⇔ DVI-D
- PC button ⇔ COMPUTER
- COMPO button ⇔ COMPONENT VIDEO
- S-VIDEO button ⇔ S-VIDEO
- VIDEO button ⇔ VIDEO



### Selecting an aspect ratio

- Press the ASPECT button (remote control) to toggle between the modes for aspect ratio.

The NORMAL mode keeps the original aspect ratio of the signal. At a HDTV signal of 1125i or 750p, only the 16:9 mode can be selected.

- At a DVI-D port's input  
4:3 → 16:9 → WIDE → MOVIE1 → MOVIE2 → NORMAL



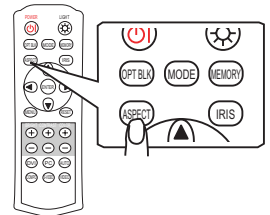
- At a computer signal (not DVI-D port's input)  
4:3 → 16:9 → NORMAL



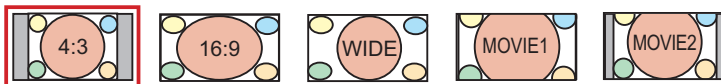
- At a video signal  
4:3 → 16:9 → WIDE → MOVIE1 → MOVIE2



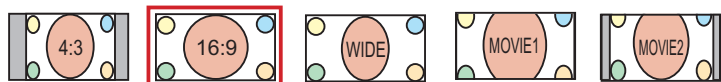
- At no signal  
4:3 ↔ 16:9



At a signal for 4:3



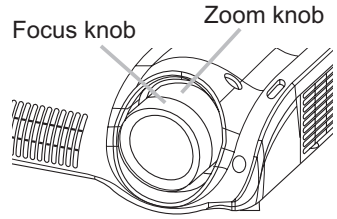
At a signal for 16:9





## Adjusting the zoom and focus

1. Use the zoom knob to adjust the screen size.
2. Use the focus knob to focus the picture.



## Using the automatic adjustment feature

1. Press the AUTO button (remote control).  
 The automatic adjustment operation requires approximately 10 seconds. Also please note that it may not function correctly with some input.

○ At a computer signal

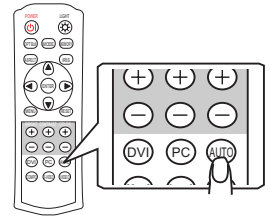
The vertical position, the horizontal position, the clock phase and horizontal size will be automatically adjusted.

Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright picture when adjusting.

○ At a video signal

The video format best suited for the respective input signal will be selected automatically.

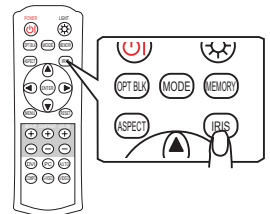
This function is available only when the AUTO mode is selected to the item VIDEO FORMAT of the INPUT menu (24). For a component video signal, the signal type is identified automatically independently of this function.



## Improving the contrast ratio

1. Press the IRIS button (remote control).  
 A dialog will appear on the screen to aid you in adjusting the **iris**.
2. Use the cursor buttons ▲/▼ (remote control/projector) to adjust the iris.
3. Press the IRIS button again to close the dialog and complete this operation.

Even if you don't do anything, the dialog will automatically disappear after about 5 seconds.

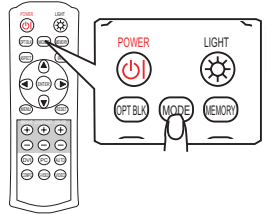


## Selecting a mode of picture type

1. Press the MODE button (remote control) to toggle between the modes for picture type.

These arrangements are combinations of a mode of GAMMA (📄19) and a mode of COLOR TEMP (📄19). Choose a suitable mode according to the projected source.

NORMAL → CINEMA → MUSIC → SPORTS → DYNAMIC



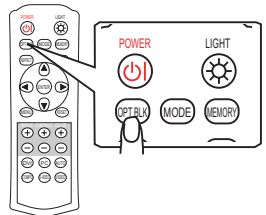
MODE	COLOR TEMP	GAMMA	Description
NORMAL	7500K	#1 DEFAULT	Standard image quality, it can be enjoyed with various sources.
CINEMA	8000K	#2 DEFAULT	Film tone image that is best for cinema picture.
MUSIC	8500K	#3 DEFAULT	The image pursuits DVD source image that is best for music video clip, and the DVD image other than cinema.
SPORTS	9300K	#4 DEFAULT	The image that emphasis on higher contrast that is best for HDTV and sports program.
DYNAMIC	DYNAMIC	#1 DEFAULT	This is the brightest mode of all.

## Adjusting a black image

1. Press the OPT BLK button (remote control) to toggle between the modes of OPTICAL BLACK (📄18).

These arrangements are combinations of a mode of IRIS (📄26) and a mode of WHISPER (📄26).

OFF → NATURAL → DEEP BLACK

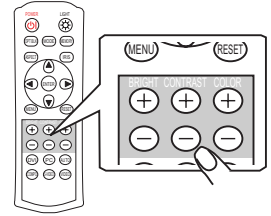


OPTICAL BLACK	IRIS	WHISPER
OFF	10	NORMAL
NATURAL	4	WHISPER
DEEP BLACK	0	WHISPER

## Adjusting the picture (brightness, contrast, color)

Brightness and contrast can be adjusted using each (+) and (-) button (remote control). At a video signal, the color can also be adjusted.

1. Press the (+) or (-) button under the item indication to adjust. Use the (+) button to increase the item, or use the (-) button to decrease the item.  
A dialog will appear on the screen to aid in adjusting the item to adjust. You can inactivate the display using the item "MESSAGE" of the SCREEN menu (27).
2. If you don't do anything, the dialog will automatically disappear after about 5 seconds.

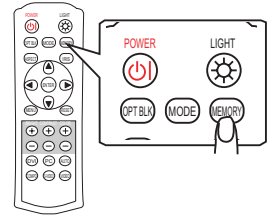


## Recalling your adjustment

This projector can memorize 4 settings by the MY MEMORY function of the PICTURE menu (20). Pressing the MEMORY button (remote control) calls the settings and adjusts the current picture. The memory which is not registered is skipped. When there is no memory registered, the picture isn't adjusted.

1. Press the MEMORY button.  
Each time you press the MEMORY button, one of memorized settings comes in the order below.

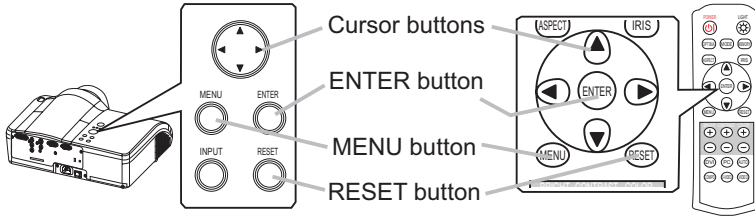
LOAD1 → LOAD2 → LOAD3 → LOAD4



## Multifunctional settings

## Using the menu function

This projector has the following menus: PICTURE, IMAGE, INPUT, SETUP, SCREEN, OPTION and EASY MENU. Each of these menus is operated using the same methods. The basic operations of these menus are as follows.

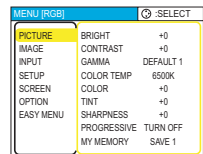


1. Press the MENU button (remote control/projector).  
The advanced MENU or EASY MENU will appear. Which menu is displayed is dependent on the last use.
2. Use the cursor buttons ▲/▼ (remote control/projector) to select a menu.
  - At the EASY MENU, if you want it to change to the advanced MENU, select the "Go to Advanced Menu".
  - At the advanced MENU, select a menu of PICTURE, IMAGE, INPUT, SETUP, SCREEN or OPTION. If you want it to change to the EASY MENU, select the EASY MENU.
3. Then press the cursor button ► or the ENTER button (remote control/projector) to progress. The display of the selected menu will activate.
4. Use the cursor buttons ▲/▼ to select an item to operate. Then press the cursor button ► or the ENTER button to progress. The operation display of the selected item will appear.
5. Use the cursor buttons ▲/▼ to operate the item.
 

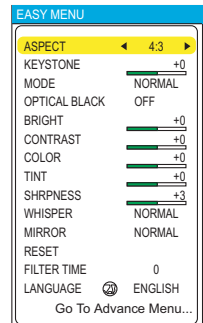
When you want to reset the operation, press the RESET button (remote control/projector) during the operation. Note that items whose functions are performed simultaneously with operation (ex. LANGUAGE, H PHASE etc.) aren't reset.

When you want to return to the previous display, press the cursor button ◀.

6. Press the MENU button again to close the menu and complete this operation. Even if you don't do anything, the dialog will automatically disappear after about 50 seconds.



MENU



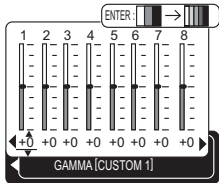
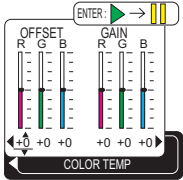
EASY MENU



## PICTURE Menu

With the PICTURE menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.

MENU [RGB]		SELECT
PICTURE	BRIGHT	+0
IMAGE	CONTRAST	+0
INPUT	GAMMA	DEFAULT 1
SETUP	COLOR TEMP	6500K
SCREEN	COLOR	+0
OPTION	TINT	+0
EASY MENU	SHARPNESS	
	PROGRESSIVE	TURN OFF
	MY MEMORY	SAVE 1

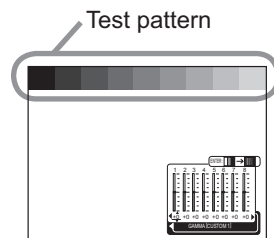
Item	Description
<b>BRIGHT</b>	Adjust the brightness using the ▲/▼ buttons. : Light ⇄ Dark
<b>CONTRAST</b>	Adjust the contrast using the ▲/▼ buttons. : Strong ⇄ Weak
<b>GAMMA</b>	<p>Select a GAMMA mode using the ▲/▼ button. :                      #1 DEFAULT ⇄ #1 CUSTOM ⇄ #2 DEFAULT ⇄ #2 CUSTOM                      ⇕                      #4 CUSTOM ⇄ #4 DEFAULT ⇄ #3 CUSTOM ⇄ #3 DEFAULT                      The radio button of the selected will indicate.</p> <p><b>CUSTOM mode</b></p> <p>Selecting the CUSTOM and then pressing the ► (or the ENTER) button calls the dialog shown in right. Choose an item using the ◀/▶ buttons, and adjust the level using the ▲/▼ buttons. :  <i>memo</i> When you press the ENTER button, the test pattern for checking appears on the screen. ( 21 )</p> 
<b>COLOR TEMP</b>	<p>Select a color temperature using the ▲/▼ buttons. :                      9300K ⇄ 8500K ⇄ 8000K ⇄ 7500K ⇄ 6500K ⇄ DYNAMIC ⇄ CUSTOM</p> <p>Selecting CUSTOM and pressing the ► button make the adjustment enabled.</p> <p><b>CUSTOM mode</b></p> <p>Select a color item of OFFSET or GAIN using the ◀/▶ buttons, and adjust the level using the ▲/▼ buttons. :  <i>memo</i> When you press the ENTER button, the test pattern for checking appears on the screen. ( 21 )</p> 
<b>COLOR</b>	<p>Adjust the whole color using the ▲/▼ buttons. :                      Strong ⇄ Weak  <i>memo</i> This item can be selected only at a video signal.  <i>memo</i> This function doesn't work with some input signal formats.</p>
<b>TINT</b>	<p>Adjust the tint using the ▲/▼ buttons. :                      Green ⇄ Red  <i>memo</i> This item can be selected only at a video signal.</p>



## PICTURE Menu (continued)

### Adjustment steps of the CUSTOM GAMMA or the CUSTOM COLOR TEMP

Press the ENTER button while the CUSTOM menu of "GAMMA" or "COLOR TEMP" is displayed. And the test pattern appears at the top of the screen as shown in the right.



Each time you press the ENTER button, the pattern changes as below.

No pattern ⇒ Gray scale(9 steps) ↘  
 ↗ Ramp ⇒ Gray scale(15 steps)

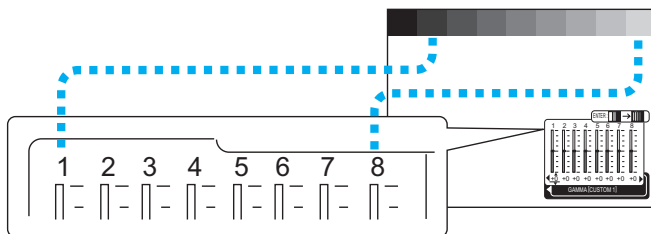
These patterns help you perceive the effect of your adjustments.

#### ■The CUSTOM GAMMA adjustment

Choose a tone using the ◀/▶ button and adjust the gamma by the ▲/▼ buttons.

This function is useful when you want to change the brightness of the particular tones. Eight of equalizing bars corresponds to eight of tones of test pattern except the darkest in the left end. If you want to adjust the 2<sup>nd</sup> tone from left end on the test pattern, use the equalizing adjustment bar "1".

**memo** The darkest tone at the left end of the test pattern cannot be controlled with any of equalizing adjustment bar.

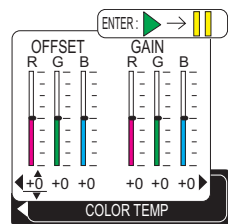


#### ■The CUSTOM GAMMA adjustment

Choose the offset and/or the gain item for each color using the ◀/▶ button and adjust by the ▲/▼ buttons.

OFFSET adjustments change the color intensity on the whole tones of the test pattern.

GAIN adjustments mainly affect color intensity on the brighter tones of the test pattern.





## IMAGE Menu

With the IMAGE menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.

MENU [RGB]		SELECT
PICTURE	ASPECT	4:3
IMAGE	OVER SCAN	95
INPUT	V POSITION	25
SETUP	H POSITION	142
SCREEN	H PHASE	16
OPTION	H SIZE	1344
EASY MENU	AUTO ADJUST	

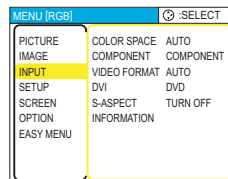
Item	Description
<b>ASPECT</b>	<p><b>Select an Aspect Ratio using the ▲/▼ buttons:</b></p> <p><b>At a COMPUTER input:</b>                      4:3 ⇔ 16:9 ⇔ NORMAL</p> <ul style="list-style-type: none"> <li>• The NORMAL keeps the original aspect ratio of the input signal.</li> <li>• At a COMPUTER input, selecting an aspect ratio may display the message“SYNC IS OUT OF RANGE”. In this case, please select one of other aspect ratios.</li> </ul> <p><b>At a DVI-D input:</b>                      4:3 ⇔ 16:9 ⇔ WIDE ⇔ MOVIE1 ⇔ MOVIE2 ⇔ NORMAL</p> <p><b>At a VIDEO input, a S-VIDEO input or a COMPONENT VIDEO input:</b>                      4:3 ⇔ 16:9 ⇔ WIDE ⇔ MOVIE-1 ⇔ MOVIE-2</p> <ul style="list-style-type: none"> <li>• At a COMPONENT VIDEO input of 16:9 HD signal of 1125i(1080i)/750p(720p), only 16:9 can be selected.</li> </ul> <p><b>At no input.:</b>                      4:3 ⇔ 16:9</p>
<b>OVER SCAN</b>	<p>Adjust the over-scan ratio using the ▲/▼ buttons. :                      Small ⇔ Large</p> <p><i>memo</i> This item can be selected only at a video signal.  <i>memo</i> When this adjustment is too large, certain degradation may appear at the frame area of the picture. In such a case, please adjust small.</p>
<b>V POSITION</b>	<p>Adjust the vertical position using the ▲/▼ buttons. :                      Up ⇔ Down</p> <p><i>memo</i> This item cannot be selected only at a DVI-D signal.</p>
<b>H POSITION</b>	<p>Adjust the horizontal position using the / buttons. :                      Left ⇔ Right</p> <p><i>memo</i> This item cannot be selected only at a DVI-D signal.</p>
<b>H PHASE</b>	<p>Adjust the horizontal phase to eliminate flicker using the ▲/▼ buttons. :                      Right ⇔ Left</p> <p><i>memo</i> This item can be selected only at a RGB signal or a component video signal.</p>

## IMAGE Menu (continued)

Item	Description
H SIZE	<p>Adjust the horizontal size using the ▲/▼ buttons. :            Large ↔ Small</p> <p><b>memo</b> This item can be selected only at a RGB signal.</p> <p><b>memo</b> When this adjustment is excessive, the picture may not be displayed correctly. In such a case, please reset the adjustment pressing the RESET button during this operation.</p>
AUTO ADJUST	<p>Pressing the ► (or the ENTER) button performs the automatic adjustment.</p> <p>■At a RGB signal            The vertical position (V POSITION), the horizontal position (H POSITION), the clock phase (H PHASE) and the horizontal size (H SIZE) will be automatically adjusted.</p> <p><b>memo</b> Make sure that the application window is set to its maximum size prior to attempting to use this feature. Dark pictures may still be incorrectly adjusted. Use a bright screen when adjusting.</p> <p>■At a video signal            The signal type mode best suited for the respective input signal will be selected automatically.</p> <p><b>memo</b> This function is available only when the AUTO is selected to the item "VIDEO FORMAT" of the INPUT menu. For a component video signal, the signal type is identified automatically independently of this function.</p> <p><b>memo</b> This operation requires approximately 10 seconds, and the message "AUTO IN PROGRESS" is displayed during the operation.</p> <p><b>memo</b> This operation may not work well at some signals. If the picture becomes unstable (ex. a irregular picture, a color lack), please select the suitable mode to the item "VIDEO FORMAT" of the INPUT menu.</p>

## INPUT Menu

With the INPUT menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.



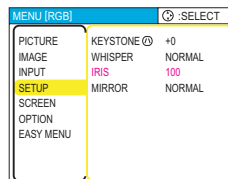
Item	Description
<b>COLOR SPACE</b>	<p>Select a color space mode using the ▲/▼ buttons. :                      AUTO ⇔ RGB ⇔ SMPTE240 ⇔ REC709 ⇔ REC601</p> <p>Selecting the AUTO automatically selects the optimum mode.  <i>memo</i> This item can not be selected only at a VIDEO or a S-VIDEO signal.  <i>memo</i> The AUTO operation may not work well at some signals. In such a case, select the SMPTE240 or the REC709 for a HDTV signal.</p>
<b>COMPONENT</b>	<p>Select a function of COMPONENT port using the ▲/▼ buttons. :                      COMPONENT ⇔ SCART RGB</p> <p>When the SCART RGB is selected, the COMPONENT port function as a port for a SCART RGB signal input. Please refer to the section “Connecting Your Devices”.</p>
<b>VIDEO FORMAT</b>	<p>Select a signal type mode using the ▲/▼ buttons. :                      AUTO ⇔ NTSC ⇔ PAL ⇔ SECAM ⇔ NTSC4.43 ⇔ M-PAL ⇔ N-PAL</p> <p>Selecting the AUTO automatically selects the optimum mode.  <i>memo</i> This item is performs only at a video signal from the VIDEO port or the S- VIDEO port. For a component video signal, the signal type is identified automatically independently of this function.  <i>memo</i> The AUTO operation may not work well at some signals. If the picture becomes unstable (ex. a irregular picture, a color lack), please select the mode depending on the input signal.</p>
<b>DVI</b>	<p>Select a signal source of the DVI-D port using the ▲/▼ buttons. :                      DVD ⇔ COMPUTER</p> <p><i>memo</i> If unsuitable setting is chosen, brightest or darkest tones may not be displayed correctly.  <i>memo</i> When you watch the DVD, always choose the “DVD” inspite of the signal source, the computer or the DVD player.</p>
<b>S-ASPECT</b>	<p>Select the TURN ON or the TURN OFF using the ▲/▼ buttons. :                      TURN ON ⇔ TURN OFF</p> <p>When the TURN ON is selected, an S2-video signal can be identified and the optimum aspect ratio is automatically selected.  <i>memo</i> This item is performs only at a S-VIDEO signal.  <i>memo</i> When the ASPECT button is used or the item “ASPECT” of the IMAGE menu is operated, the TURN OFF will be automatically selected to this item.</p>





## INPUT Menu (continued)

Item	Description
<p><b>INFORMATION</b></p>	<p>Pressing the ► (or the ENTER) button displays the INPUT INFORMATION menu.</p> <p>The INPUT INFORMATION menu shows the information about the current signal input as illustrated below.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <small>◀ INPUT-INFORMATION</small>        RGB        1024x768 @60.0        FRAME LOCK     </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <small>◀ INPUT-INFORMATION</small>        S-VIDEO        SECAM        AUTO     </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <small>◀ INPUT-INFORMATION</small>        COMPONENT        576i @50        SCART RGB     </div> </div> <p><b>memo</b> The “FRAME LOCK” message means the frame lock function is working. This function automatically works when a RGB signal with vertical frequency of 50 to 60 Hz is input, and it displays a moving picture more smoothly.</p> <p><b>memo</b> The “SCART RGB” message means the COMPONENT port is working as a SCART RGB port. Please refer to the item “COMPONENT” in this table.</p>

## SETUP Menu

With the SETUP menu, items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.



Item	Description
<b>KEYSTONE</b>	<p>Adjust the Keystone (Vertical) Distortion:                      Upper in the data ⇔ Lower in the data  <i>memo</i> The adjustable range of this function will vary with the type of input signal. At some signals, this function may not work well.  <i>memo</i> When the V:INVERT or the H&amp;V:INVERT is selected under the MIRROR item, if the projector screen is inclined or if the projector is angled downward, this function may not work correctly.  <i>memo</i> When the WIDE is selected under the ASPECT item of the IMAGE menu, this adjustment is ignored.  <i>memo</i> When the zoom adjustment is set to the TELE side, this correction may be excessive. This function should be used with zoom set to WIDE whenever possible.</p>
<b>WHISPER</b>	<p>Select the NORMAL or the WHISPER using the ▲/▼ buttons. :                      NORMAL ⇔ WHISPER                      When the WHISPER is selected, acoustic noise and screen brightness are reduced.</p>
<b>IRIS</b>	<p>Adjust the iris using the ▲/▼ buttons. : Bright ⇔ Dark</p>
<b>MIRROR</b>	<p>Select a mirror status using the ▲/▼ buttons. :                      NORMAL ⇔ H:INVERT ⇔ V:INVERT ⇔ H&amp;V:INVERT</p> <div style="display: flex; justify-content: space-around; align-items: center;">     </div>

## SCREEN Menu

With the SCREEN menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.

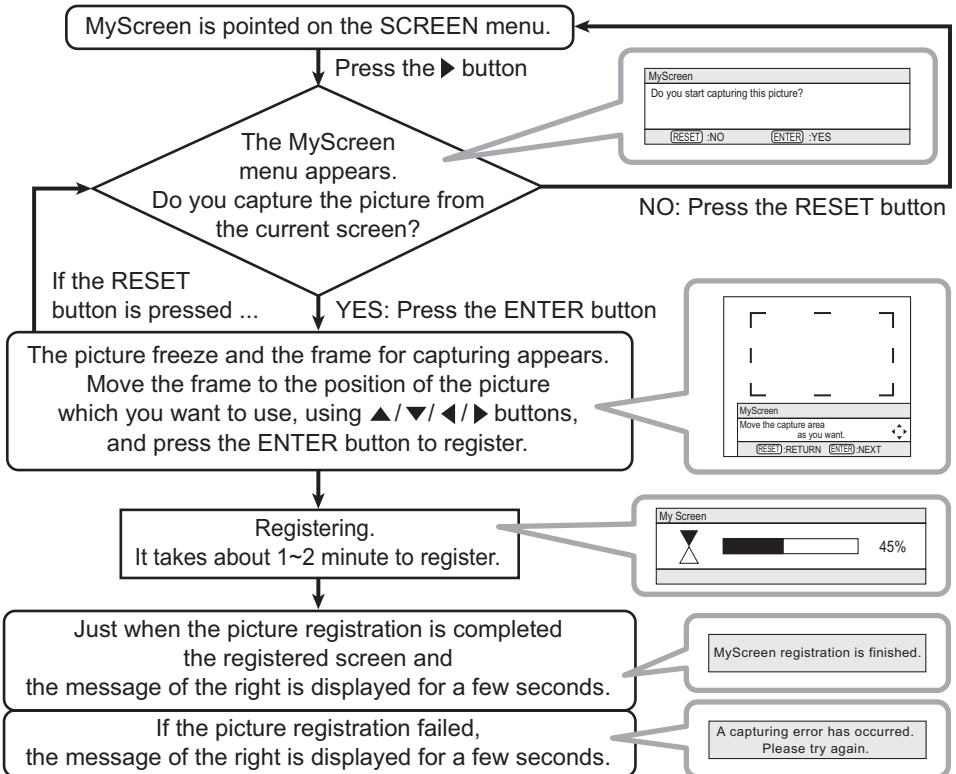
MENU [RGB]		SELECT
PICTURE	LANGUAGE	ENGLISH
IMAGE	MENU POSITION	
INPUT	OSD BRIGHT	5
SETUP	START UP	ORIGINAL
<b>SCREEN</b>	MyScreen	
OPTION	MyScreen Lock	TURN OFF
EASY MENU	MESSAGE	TURN ON

Item	Description
<b>LANGUAGE</b>	Select a menu language using the ▲/▼ buttons. : ENGLISH ⇄ FRANÇAIS ⇄ DEUTSCH ⇄ ESPAÑOL ⇄ ITALIANO ↓ NORSK ⇄ NEDERLANDS ⇄ PORTUGUÊS ⇄ 日本語 ⇄ 中文 ↓ 한글 ⇄ SVENSKA ⇄ РУССКИЙ ⇄ SUOMI ⇄ POLSKI
<b>MENU POSITION</b>	Adjust the menu position using the ▲/▼/◀/▶ buttons.: Up ↑ Left ⇄ ⇄ Right ↓ Down To quit the operation, press the “MENU” button or keep no operation for 50 seconds.
<b>OSD BRIGHT</b>	Select a brightness level of the OSD on the screen using the ▲/▼ buttons. : BRIGHT ⇄ DARK
<b>START UP</b>	Select a type of the START UP screen using the ▲/▼ buttons. : MyScreen ⇄ ORIGINAL ⇄ TURN OFF The START UP screen is the screen, which is displayed by detecting no signal or an unsuitable signal. The MyScreen is the screen you can register a desired screen, and the ORIGINAL is the existing standard screen. When the TURN OFF is selected, the BLUE is used. <i>memo</i> The MyScreen and the ORIGINAL Screen will each change to a non-patterned (plain) black color screen several minutes after being displayed. <i>memo</i> About the MyScreen, please refer to the item “MyScreen” in this table.
<b>My Screen</b>	Pressing the ▶ (or the ENTER) button starts the MyScreen registration. Please see the flow chart on the following page.
<b>My Screen Lock</b>	Select the TURN ON or the TURN OFF using the ▲/▼ buttons. : TURN ON ⇄ TURN OFF The TURN ON disables the operation of the item “MyScreen” of this SCREEN menu.

**SCREEN Menu (continued)**

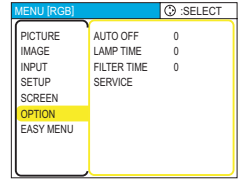
Item	Description
<b>MESSAGE</b>	Select the TURN ON or the TURN OFF using the ▲/▼ buttons. : TURN ON ⇔ TURN OFF When the TURN ON is selected, the following message function works. The message of the "AUTO IN PROGRESS" for the auto adjustment. The message of the "NO INPUT IS DETECTED" The message of the "SYNC IS OUT OF RANGE" The message of the "Detecting ..." The indication of the input signal by input change. The indication of the aspect ratio by changing the aspect ratio. The indication of "IRIS", "BRIGHT", "CONTRAST", "COLOR" by adjusting them.


**How to register your picture as the MyScreen**



OPTION Menu

With the OPTION menu, items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.

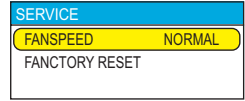


Item	Description
<p><b>AUTO OFF</b></p>	<p>Set the time using the ▲/▼ buttons. :                      Long (max. 99 minutes) ⇔ Short (min. 0 minute = DISABLE)</p> <p>ex. </p> <p>When the time is set to 1 to 99, the projector lamp will go off and the power indicator begins blinking when the passed time with a proper signal (without no-signal and an unsuitable signal) reaches at the set time. Please refer to the section “Turning Off The Power”.</p>
<p><b>LAMP TIME</b></p>	<p>Pressing the RESET button for about 3 seconds displays the LAMP TIME menu.                      Select the RESET using ▲ button to reset the timer. :                      RESET ⇔ CANCEL</p> <p>Selecting the RESET resets the count of the lamp timer to 0.  <i>memo</i> Perform this function only when you have replaced the lamp. The lamp timer counts the used time of the current lamp, to display the messages about the lamp. Incorrect performing causes incorrect operation of the messages.  <i>memo</i> About replacing the lamp, please refer to the section” Lamp”.</p>
<p><b>FILTER TIME</b></p>	<p>Pressing the RESET button for about 3 seconds displays the FILTER TIME menu.                      Select the RESET using ▲ button to reset the timer. :                      RESET ⇔ CANCEL</p> <p>Selecting the RESET resets the count of the lamp timer to 0.  <i>memo</i> Perform this function only when you have cleaned or replaced the air filter. The filter timer counts the used time of the air filter after cleaning or replacement, to display the messages about the air filter. Incorrect performing causes incorrect operation of the messages.  <i>memo</i> About caring for the air filter, please refer to the section “Air Filter”.</p>



**OPTION Menu (continued)**

Item	Description	
<b>SERVICE</b>	<p>Pressing the ► (or the ENTER) button calls the SERVICE menu.</p> <p><b>SERVICE Menu</b></p> <p>Select an item using the ▲/▼ buttons, and press the ► (or the ENTER) button to perform each function. :</p> <p style="text-align: center;">FANSPEED ⇔ FACTORY RESET</p>	
	<b>FANSPEED</b>	<p>Select the fan speed level using the ▲/▼ buttons. :</p> <p style="text-align: center;">HIGH ⇔ LOW</p> <p>The HIGH ups rotation speeds of fans. Please use this function in using a projector at highlands etc.</p> <p><i>memo</i> Note that the projector is noisier when the HIGH is selected.</p>
	<b>FACTORY RESET</b>	<p><b>Initialize the Items in all of the menus:</b> Selecting the RESET performs this function.</p> <p style="text-align: center;">RESET ⇔ CANCEL</p> <p>All the items in all of menu will collectively returned to the factory defaults. Note that the items “Lamp Time”, “Filter Time” and “Language” are not reset.</p>



## Maintenance

 **LAMP WARNING**
 HIGH VOLTAGE
  HIGH TEMPERATURE
  HIGH PRESSURE

► The projector uses a high-pressure mercury glass lamp. The lamp can break with a loud bang, or burn out, if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury to escape from the projector's vent holes.

► **About disposal of a lamp** • This product contains a mercury lamp; do not put in trash. Dispose of in accord with environmental laws. For lamp recycling, go to [www.lamprecycle.org](http://www.lamprecycle.org). (in the US) For product disposal, contact your local government agency or [www.eiae.org](http://www.eiae.org) (in the US) or [www.epsc.ca](http://www.epsc.ca) (in Canada). For more information, call your dealer.



- If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.
- If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to breathe the gas that comes out of the projector vents, or get it in your eyes or mouth.
- Before replacing the lamp, make sure the power switch is off and the power cable is not plugged in, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as damaging the lamp.



- Never unscrew except the appointed (marked by an arrow) screws.
- Do not open the lamp cover while the projector is suspended from above. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.
- Do not use the projector with the lamp cover removed. At the lamp replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.



- Use only the lamp of the specified type.
- If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative.
- Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
- If the indicators or a message prompts you to replace the lamp (see the section "Related Messages" and "Regarding the indicator Lamps"), replace the lamp as soon as possible. Using the lamp for long periods of time, or past the replacement date, could cause it to burst. Do not use old (used) lamps; this is a cause of breakage.

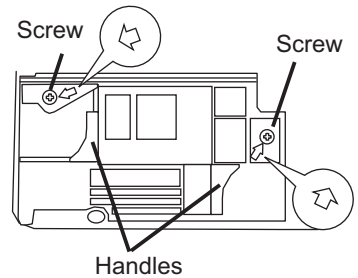
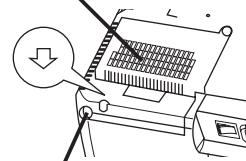
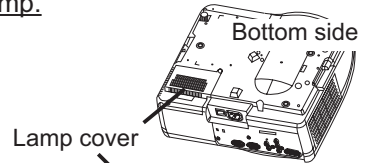
## Lamp

If the indicators or a message prompts you to replace the lamp, replace the lamp as soon as possible.

1. Turn off the projector, and unplug the power cord. Allow the lamp bulb to cool for at least 45 minutes.
2. Contact your dealer to prepare a new lamp. Tell the dealer your lamp type number: **DT00661**. If the projector is mounted on the ceiling, or if the lamp has broken, also ask the dealer to replace the lamp.

### In the case of replacement by yourself,

3. After making sure that the projector has cooled adequately, slowly flip over the projector, so that the bottom is facing up.
4. Unscrew the screw (marked by arrow) of the lamp cover, the slide and take the lamp cover up.
5. Unscrew the 2 screws (marked by arrow), and slowly pick up the lamp by the handles.
6. Insert the new lamp, and retighten firmly two screws unscrewed in the previous process to lock it in place.
7. Slide the lamp cover into place, and retighten firmly the screw of the lamp cover unscrewed in the process number 4.
8. Turn on the projector power, and reset the lamp timer.
  - (1) While the projector running, press the MENU button to open the menu.
  - (2) Choose the "OPTION" on the menu using the ▲/▼ button, then press the ► button or ENTER button.
  - (3) Choose the "LAMP TIME" using the ▲/▼ button, then press and hold the RESET button for 3 seconds.
  - (4) Choose the "RESET" using the ▲ button.



**NOTE** • When the lamp has been replaced after the message of "THE POWER WILL TURN OFF AFTER 0hr." is displayed, complete the following operation within 10 minutes of switching power on.

- Incorrectly resetting of the lamp timer (resetting without replacement, or neglect of resetting after replacement) will result in incorrect message functions.

## Air filter

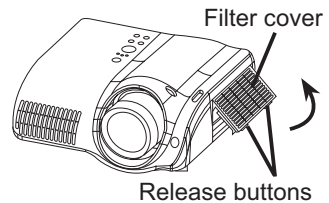
**⚠WARNING** ► Before replacing the lamp, make sure the power switch is off and the power cord is not plugged in, then wait at least 45 minutes for the lamp to cool sufficiently.

► Use only the air filter of the specified type. Do not use the projector with the air filter and filter cover removed.

**⚠CAUTION** ► If the air filter becomes clogged by dust or the like, internal temperature rises and the power may be automatically turned off for malfunction prevention .

If the indicators or a message prompts you to clean the air filter, clean the air filter as soon as possible. Please replace the air filter when you replace the lamp, and also when it is damaged or too soiled.

1. Turn off the projector, and unplug the power cord. Allow the lamp bulb to cool for at least 45 minutes.
2. After making sure that the projector has cooled adequately, remove the filter cover and the air filter. Hold its release buttons while pulling up it.



3. Apply a vacuum cleaner to the filter cover and the air filter.

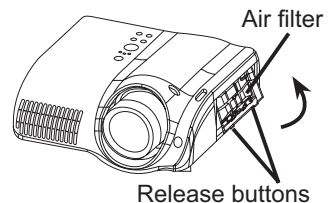
### To replace the air filter,

Contact your dealer to prepare a new air filter.

Tell the dealer your air filter type number:

**NJ09452.**

4. Insert the cleaned air filter or a new air filter, and replace the filter cover.
5. Turn on the projector power, and reset the filter timer.
  - (1) While the projector running, press the MENU button to open the menu.
  - (2) Choose the "OPTION" on the menu using the ▲/▼ button, then press the ► button or ENTER button.
  - (3) Choose the "FILTER TIME" using the ▲/▼ button, then press and hold the RESET button for 3 seconds.
  - (4) Choose the "RESET" using the ▲ button.



**NOTE** • Incorrectly resetting of the filter timer (resetting without replacement, or neglect of resetting after replacement) will result in incorrect message functions.

**⚠WARNING** ▶ Please carefully read the "User's Manual - Safety Guide".

▶ Before caring, make sure the power switch is off and the power cord is not plugged in.

▶ Be cautious of high temperature. Do not touch about the lens and ventilation openings during use or immediately after prevent a burn.

▶ Never try to care for the inside of the unit yourself. Doing so is dangerous.

**⚠CAUTION** ▶ Incorrect care could have adverse influence such as discoloration, peeling paint, etc.

▶ Do not use cleaner or chemicals other than those listed below, including benzene and paint thinner.

▶ Do not use aerosols or sprays.

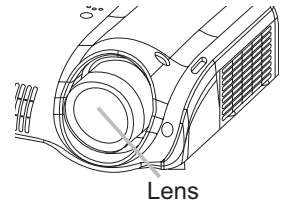
▶ Do not polish or wipe with hard objects.

## Inside of the projector

In order to ensure the safe use of your projector, please have it cleaned and inspected by your local dealer about once every 2 years.

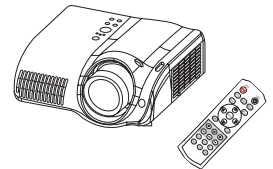
### Caring for the lens

1. Turn off the projector, and unplug the power cord.
2. Lightly wipe the lens with a commercially available lens-cleaning wipe. Do not touch the lens directly with your hand.



### Caring for the cabinet and remote control

1. Turn off the projector, and unplug the power cord.
2. Wipe lightly with gauze or a soft cloth. If soiling is severe, dip soft cloth in water or a neutral cleaner dilute in water, and wipe lightly after wringing well. Then, wipe lightly with a soft, dry cloth.



## Troubleshooting

### Related messages

When the unit's power is on, messages such as those shown below may be displayed. When any such message is displayed on the screen, please respond as described below. If the same message is displayed after the treatment, or if a message other than the following appears, please contact your dealer or service company.

Although these messages will be automatically disappeared around several minutes, it will be reappeared every time the power is turned on.

Message	Description
<p>☼ <b>CHANGE THE LAMP</b></p> <p><b>AFTER REPLACING LAMP, RESET THE LAMP TIMER.</b></p>	<p><b>The time the lamp timer has counted is approaching 2000 hours.</b></p> <p>Preparation of a new lamp, and an early lamp change is recommended. After you have change the lamp, please be sure to reset the lamp timer.</p>
<p>☼ <b>CHANGE THE LAMP</b></p> <p><b>AFTER REPLACING LAMP, RESET THE LAMP TIMER.</b></p> <p><b>THE POWER WILL TURN OFF AFTER ** hr.</b></p>	<p><b>The time the lamp timer has counted is approaching 2000 hours, so a lamp change within ** hours is recommended.</b></p> <p>When lamp usage reaches 2000 hours, the power will automatically be turned off. Please change the lamp by referring to the section “Lamp”. After you have changed the lamp, please be sure to reset the lamp timer.</p>
<p>☼ <b>CHANGE THE LAMP</b></p> <p><b>AFTER REPLACING LAMP, RESET THE LAMP TIMER.</b></p> <p><b>THE POWER WILL TURN OFF AFTER 0 hr.</b></p>	<p><b>As the time the lamp timer has counted has reached 2000 hours, the power will soon be automatically turned off.</b></p> <p>Please immediately turn the power off, and change the lamp by referring to the section “Lamp”. After changing the lamp, please be sure to reset the lamp timer.</p>
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p><b>NO INPUT IS DETECTED ON ***</b></p> </div>	<p><b>There is no input signal.</b></p> <p>Please confirm the signal input connection, and the status of the signal source.</p>

(This table is continued to the following page.)

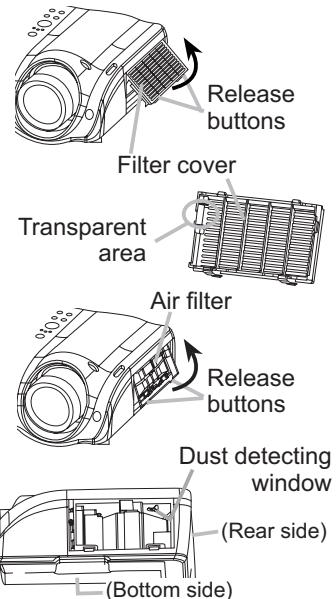
**NOTE** • A lamp has a finite product life. Lamps are characterized by the fact that, after long hours of usage, a lamp will no longer light up, or the lamp will break or burst, etc. This projector is equipped with an automatic shut-down function, such that the power will automatically be turned off when lamp usage time has reached 2000 hours. Please be aware, however, that among lamp types, there are major differences in product lifetimes; a lamp may thus fail to light even prior to the functioning of the automatic shut-down function of this projector.

**Related messages (continued)**

Message	Description
<p><b>SYNC IS OUT OF RANGE</b>  ON *** fH *****kHz fV *****Hz</p>	<p><b>The horizontal or vertical wavelength of the inputted signal is outside of the response parameters of this unit.</b>  Please confirm the specs for this unit or the signal source specs.</p>
<p><b>CHECK THE AIR FLOW</b></p>	<p><b>The internal portion temperature is rising.</b>  Please turn the power OFF, and allow the unit to cool down at least 20 minutes. After having confirmed the following items, please turn the power ON again.</p> <ul style="list-style-type: none"> <li>• Is there blockage of the air passage aperture?</li> <li>• Is the air filter dirty?</li> <li>• Does the peripheral temperature exceed 35°C?</li> </ul>
<p><b>CLEAN THE AIR FILTER  POWER OFF FIRST,  THEN CLEAN THE AIR  FILTER.  AFTER CLEANING THE AIR  FILTER,  RESET THE FILTER TIMER.</b></p>	<p><b>A note of precaution when cleaning the air filter.</b>  Please immediately turn the power OFF, and clean or change the air filter by referring to the “Air Filter” section of this manual. After you have cleaned or changed the air filter, please be sure to reset the filter timer. If the same message is displayed after the treatment, please clean the transparent area of filter cover and the dust-detecting window, according to the following.</p>

**⚠ CAUTION** ▶ The transparent area of filter cover and the dust-detecting window should be cleaned for normal operation of the optical dust detecting system. Please pay attention not to remain fiber or fragment of cloth inside the duct.

1. Turn off the projector, and unplug the power cord.
2. After making sure that the projector has cooled adequately, remove the filter cover.  
Hold the release buttons of the filter cover, while pulling up it.
3. Wipe the transparent area of the filter cover by using a swab or a soft cloth.
4. Remove the air filter.  
Hold the release buttons of the air filter, while pulling up it.
5. Wipe the dust-detecting window by using a soft cloth.
6. Replace the air filter and filter cover.



## Regarding the indicator lamps

Lighting and flashing of the POWER indicator, the LAMP indicator, and the TEMP indicator have the meanings as described in the table below. Please respond in accordance with the instructions within the table. If the same indication is displayed after the treatment, or if an indication other than the following is displayed, please contact your dealer or service company.

**NOTE** • When the interior portion has become overheated, for safety purposes, the power source is automatically turned off, and the indicator lamps may also be turned off. In such a case, press the “○” (OFF) side of the main power switch, and wait at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.

POWER indicator	LAMP indicator	TEMP indicator	Description
Lighting In <b>Orange</b>	Turned off	Turned off	<b>The projector is in a standby state.</b> Please refer to the section “Power On/Off”.
<i>Blinking</i> In <b>Green</b>	Turned off	Turned off	<b>The projector is warming up.</b> Please wait.
Lighting In <b>Green</b>	Turned off	Turned off	<b>The projector is in an on state.</b> Ordinary operations may be performed.
<i>Blinking</i> In <b>Orange</b>	Turned off	Turned off	<b>The projector is cooling down.</b> Please wait.
<i>Blinking</i> In <b>Red</b>	(discretionary)	(discretionary)	<b>The projector is cooling down. A certain error has been detected.</b> Please wait until the POWER indicator finishes blink, and then perform the proper response measure using the item descriptions below as reference.
<i>Blinking</i> In <b>Red</b> or Lighting In <b>Red</b>	Lighting In <b>Red</b>	Turned off	<b>The lamp does not light, and there is a possibility that interior portion has become heated.</b> Please turn the power off, and allow the unit to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again. <ul style="list-style-type: none"> <li>• Is there blockage of the air passage aperture?</li> <li>• Is the air filter dirty?</li> <li>• Does the peripheral temperature exceed 35°C?</li> </ul> If the same indication is displayed after the treatment, please change the lamp by referring to the section “Lamp”.



**Regarding the indicator lamps (continued)**

POWER indicator	LAMP indicator	TEMP indicator	Description
<i>Blinking In Red</i> or Lighting In Red	Turned off	<i>Blinking In Red</i>	<b>The cooling fan is not operating.</b> Please turn the power off, and allow the unit to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation that no foreign matter has become caught in the fan, etc., and then turn the power on again. If the same indication is displayed after the treatment, please contact your dealer or service company.
<i>Blinking In Red</i> or Lighting In Red	Turned off	Lighting In Red	<b>There is a possibility that the interior portion has become heated.</b> Please turn the power off, and allow the unit to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again. <ul style="list-style-type: none"> <li>• Is there blockage of the air passage aperture?</li> <li>• Is the air filter dirty?</li> <li>• Does the peripheral temperature exceed 35°C?</li> </ul> If the same indication is displayed after the treatment, please change the lamp by referring to the section "Lamp".
Lighting In Green	Alternative <i>blinking in Red</i>		<b>There is a possibility that the interior portion has become overcooled.</b> Please use the unit within the usage temperature parameters (5°C to 35°C). After the treatment, resent the power to ON.
Lighting In Green	Simultaneous <i>blinking in Red</i>		<b>It is time to clean the air filter, or there is no air filter.</b> Please immediately turn the power OFF, and clean or change the air filter by referring to the section "Air Filter". After cleaning or changed the lamp, please be sure to reset the filter timer. After the treatment, resent the power to ON.

## Phenomena that may easily be mistaken for machine defects

**⚠WARNING** ▶ Never use the projector if abnormal operations such as smoke, strange odor, excessive sound, damaged casing or elements or cables, penetration of liquids or foreign matter, etc. should occur. In such cases, immediately turn off the power switch and then disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer or service company.

Before requesting repair, please check in accordance with the following chart. If the situation cannot be corrected, please contact your dealer or service company.

**memo** If the problem is not removed after described maintenance, please use the **FACTORY RESET** to reset all settings to factory default. This operation sometimes resolve your problem.

**NOTE** • Although bright spots or dark spots may appear on the screen, this is a unique characteristic of liquid crystal displays, and such do not constitute or imply a machine defect.

Phenomenon	Cases not involving a machine defect	Reference page
Power does not come on.	<b>The electrical power cord is not plugged in.</b> Correctly connect the power cord.	10
	<b>The power switch is not set to the on position.</b> Set the power switch to [   ] (On).	12
	<b>The main power source has been interrupted during operation such as by a power outage (blackout), etc.</b> Please turn the power off, and allow the unit to cool down at least 20 minutes. After the projector has sufficiently cooled down, please turn the power on again.	12
	<b>Either there is no lamp and/or lamp cover, or either of these has not been properly fixed.</b> Please turn the power off, and allow the unit to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.	31, 32
No pictures are displayed.	<b>The lens cap is attached.</b> Remove the lens cap.	4
	<b>The signal cables are not correctly connected.</b> Correctly connect the connection cables.	8, 9
	<b>The brightness is adjusted to an extremely low level.</b> Adjust the BRIGHT to a higher level using the menu function or the remote control.	16, 19

**Phenomena that may easily be mistaken for machine defects (continued)**

Phenomenon	Cases not involving a machine defect	Reference page
No pictures are displayed.	<b>The PC cannot detect the projector as a plug and play monitor.</b> Make sure that the PC's can detect a plug and play monitor using other plug and play monitor.	8
	<b>If the connected PC has a DVI output, the driver software of the DVI board is too old.</b> Consult with the dealer of your PC to install new software.	-
	<b>The signal source cannot output both a DVI signal and a VGA signal simultaneously.</b> Disconnect the VGA connection when you use the DVI input.	-
	<b>If the output signal can be selected on the PC, it isn't selected properly</b> Select the digital output for DVI connection.	-
Colors have a faded- out appearance, or Color tone is poor.	<b>Color settings are not correctly adjusted.</b> Perform picture adjustments by changing the COLOR TEMP, COLOR and/or TINT settings, using the menu functions.	18, 19
	<b>COLOR SPACE setting is not suitable.</b> Change the COLOR SPACE setting to AUTO, RGB, SMPTE240, REC709 or REC601.	24
Pictures appear dark.	<b>The brightness and/or contrast are adjusted to an extremely low level.</b> Adjust the BRIGHT and/or CONTRAST settings to a higher level using the menu function.	16, 18, 19
	<b>The IRIS setting lowers the brightness.</b> Set the IRIS to +10.	26
	<b>The WHISPER function is working.</b> Select the NORMAL to the item WHISPER in the SETUP menu.	26
	<b>The lamp is approaching the end of its product lifetime.</b> Replace the lamp.	32
Pictures appear blurry.	<b>Either the focus and/or horizontal phase settings are not properly.</b> Adjust the focus using the focus knob, and/or H PHASE using the menu function.	14, 22
	<b>The lens is dirty or misty.</b> Clean the lens by referring to the section "Caring For The Lens".	34

## Warranty and after-service

If a problem occurs with the equipment, first refer to the “Troubleshooting” and run through the suggested checks. If this does not resolve the problem, please contact your dealer or the service company. They will tell you what warranty condition is applied.

## Specifications

### Specifications

**NOTE** • This specifications are subject to change without notice.

Item		Specification
Product name		Liquid crystal projector
Liquid Crystal panel	Panel size	1.8 cm (0.7 type)
	Drive system	TFT active matrix
	Pixels	921,600 pixels (1280 horizontal x 720 vertical)
Lens		Zoom lens F=1.8 ~ 2.4 f=20.0 ~ 31.9 mm
Lamp		150W UHB
Power Supply		AC100-120V/2.4A, AC220-240V/1.1A
Power Consumption		220W
Temperature range		5 ~ 35°C (Operating)
Size		340 (W) x 110 (H) x 280 (D) mm (Not including protruding parts) • Please refer to the figure of the section “TECHNICAL” of the end of this manual.
Weight (mass)		4.5 kg
Ports		<b>RGB input ports</b> Computer..... 1 DVI-D..... 1 <b>Video input ports</b> Video ..... 1 S-Video ..... 1 Component Video..... 1 (Y, Cb/Pb, Cr/Pr)
Optional parts	Lamp	DT00661
	Air filter	NJ09452
	Others	• Please consult your dealer.

Projector

# PJ-TX100

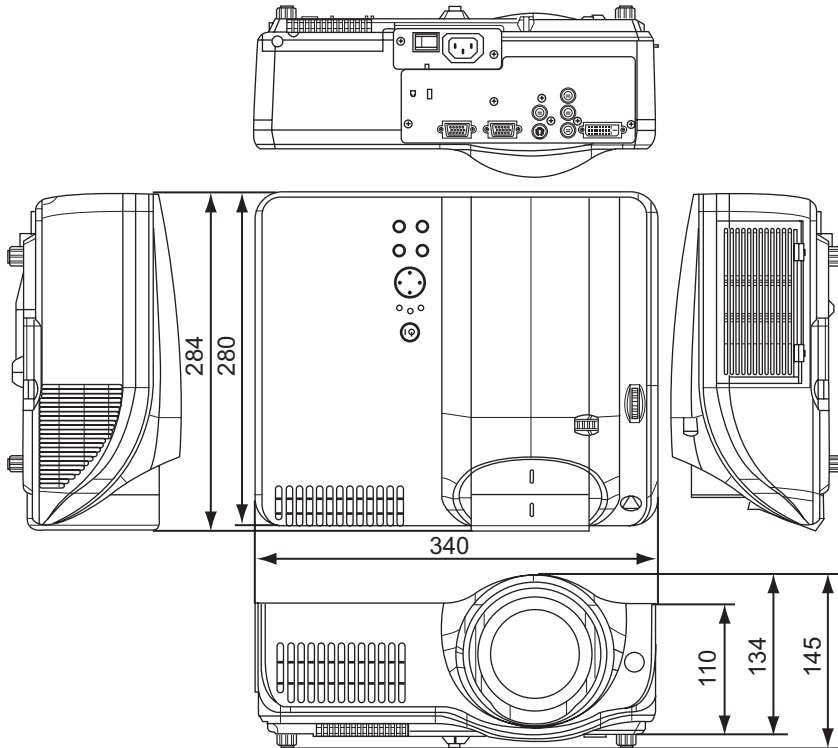
## User's Manual - Operating Guide

**HITACHI**  
Inspire the Next

Thank you for purchasing this projector.

### TECHNICAL

#### Dimensions



TECHNICAL

(unit: mm)

Example of computer signal

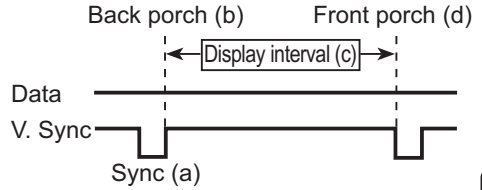
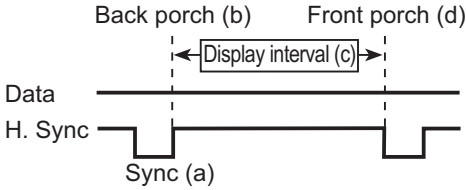
Please refer the following table about the suitable computer.

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Rating	Signal Mode
720 x 400	37.9	85.0	VESA	TEXT
640 x 480	31.5	59.9	VESA	VGA (60Hz)
640 x 480	37.9	72.8	VESA	VGA (72Hz)
640 x 480	37.5	75.0	VESA	VGA (75Hz)
640 x 480	43.3	85.0	VESA	VGA (85Hz)
800 x 600	35.2	56.3	VESA	SVGA (56Hz)
800 x 600	37.9	60.3	VESA	SVGA (60Hz)
800 x 600	48.1	72.2	VESA	SVGA (72Hz)
800 x 600	46.9	75.0	VESA	SVGA (75Hz)
800 x 600	53.7	85.1	VESA	SVGA (85Hz)
832 x 624	49.7	74.5		Mac 16" mode
1024 x 768	48.4	60.0	VESA	XGA (60Hz)
1024 x 768	56.5	70.1	VESA	XGA (70Hz)
1024 x 768	60.0	75.0	VESA	XGA (75Hz)
1024 x 768	68.7	85.0	VESA	XGA (85Hz)
1152 x 864	67.5	75.0	VESA	SXGA (75Hz)
1280 x 960	60.0	60.0	VESA	SXGA (60Hz)
1280 x 1025	64.0	60.0	VESA	SXGA (60Hz)
1280 x 1024	80.0	75.0	VESA	SXGA (75Hz)
1280 x 1024	91.2	85.0	VESA	SXGA (85Hz)

- NOTE**
- Be sure to check jack type, signal level, timing and resolution before connecting this projector to a computer.
  - Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
  - Depending on the input signal, full-size display may not be possible in some cases Refer to the number of display pixels above.
  - Although the projector can display signals with resolution up to UXGA (1600 x 1200), the signal will be converted to the projector's panel resolution before being displayed. The best display performance will be achieved if the resolutions of the input signal and projector panel are identical.
  - UXGA (1600 x 1200) signals cannot be displayed with DVI input.
  - Automatically adjustment may not function correctly with some input signals.
  - The image may not be displayed correctly when the input sync signal is a composite sync or a sync on G.

## Initial set signals

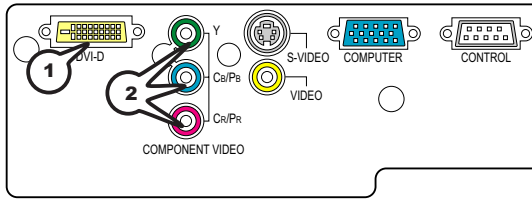
The following signals are used for the initial settings. The signal timing of some computer models may be different. In such case, adjust the items V POSITION and H POSITION in the IMAGE menu.



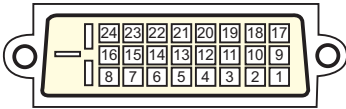
Computer/ Signal	Horizontal signal timing ( $\mu$ s)			
	(a)	(b)	(c)	(d)
TEXT	2.0	3.0	20.3	1.0
VGA (60Hz)	3.8	1.9	25.4	0.6
VGA (72Hz)	1.3	3.8	20.3	1.0
VGA (75Hz)	2.0	3.8	20.3	0.5
VGA (85Hz)	1.6	2.2	17.8	1.6
SVGA (56Hz)	2.0	3.6	22.2	0.7
SVGA (60Hz)	3.2	2.2	20.0	1.0
SVGA (72Hz)	2.4	1.3	16.0	1.1
SVGA (75Hz)	1.6	3.2	16.2	0.3
SVGA (85Hz)	1.1	2.7	14.2	0.6
Mac 16" mode	1.1	3.9	14.5	0.6
XGA (60Hz)	2.1	2.5	15.8	0.4
XGA (70Hz)	1.8	1.9	13.7	0.3
XGA (75Hz)	1.2	2.2	13.0	0.2
XGA (85Hz)	1.0	2.2	10.8	0.5
1152 x 864 (75Hz)	1.2	2.4	10.7	0.6
1280 x 960 (60Hz)	1.0	2.9	11.9	0.9
1280 x 1024 (60Hz)	1.0	2.3	11.9	0.4
1280 x 1024 (75Hz)	1.1	1.8	9.5	0.2
1280 x 1024 (85Hz)	1.0	1.4	8.1	0.4

Computer/ Signal	Vertical signal timing (lines)			
	(a)	(b)	(c)	(d)
TEXT	3	42	400	1
VGA (60Hz)	2	33	480	10
VGA (72Hz)	3	28	480	9
VGA (75Hz)	3	16	480	1
VGA (85Hz)	3	25	480	1
SVGA (56Hz)	2	22	600	1
SVGA (60Hz)	4	23	600	1
SVGA (72Hz)	6	23	600	37
SVGA (75Hz)	3	21	600	1
SVGA (85Hz)	3	27	600	1
Mac 16" mode	3	39	624	1
XGA (60Hz)	6	29	768	3
XGA (70Hz)	6	29	768	3
XGA (75Hz)	3	28	768	1
XGA (85Hz)	3	36	768	1
1152 x 864 (75Hz)	3	32	864	1
1280 x 960 (60Hz)	3	36	960	1
1280 x 1024 (60Hz)	3	38	1024	1
1280 x 1024 (75Hz)	3	37	1024	2
1280 x 1024 (85Hz)	3	44	1024	1

## Connection to the ports



### (1) DVI-D



- DVI-D jack (digital to digital)

Pin	Signal	Pin	Signal
1	T.M.D.S. Data 2 -	13	-
2	T.M.D.S. Data 2 +	14	+5V Power
3	T.M.D.S. Data 2/4 Shield	15	Ground (+5V, Analog H/V.sync)
4	-	16	Hot-Plug Sense
5	-	17	T.M.D.S. Data 0 -
6	SCL (DDC Clock)	18	T.M.D.S. Data 0 +
7	SDA (DDC Data)	19	T.M.D.S. Data 0/5 Shield
8	Analog V. sync	20	-
9	T.M.D.S. Data 1 -	21	-
10	T.M.D.S. Data 1 +	22	T.M.D.S. Clock Shield
11	T.M.D.S. Data 1/3 Shield	23	T.M.D.S. Clock +
12	-	24	T.M.D.S. Clock -

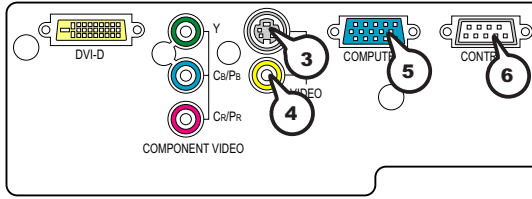
### (2) COMPONENT VIDEO



- RCA jack x 3
- System: 525i(480i), 525p(480p), 625i(576i), 720p, 1080i/1035i

Port	Signal
Y	Component video Y, 1.0±0.1Vp-p at 75Ω terminated with composite sync.
CR/PR	Component video CR/PR, 0.7±0.1Vp-p at 75Ω terminated
CB/PB	Component video CB/RB, 0.7±0.1Vp-p at 75Ω terminated





(3) S-VIDEO



• Mini Din 4 pin jack

Pin	Signal
1	Color signal: 0.286Vp-p (NTSC, burst), 75Ω terminator 0.300Vp-p (PAL/SECAM, burst), 75Ω terminator
2	Brightness signal: 1.0Vp-p, 75Ω terminator
3	Ground
4	Ground

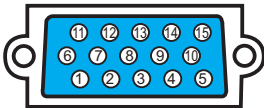
TECHNICAL

(4) VIDEO



- RCA jack
- System: NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL60
- Signal: 1.0±0.1Vp-p at 75Ω terminator

(5) COMPUTER



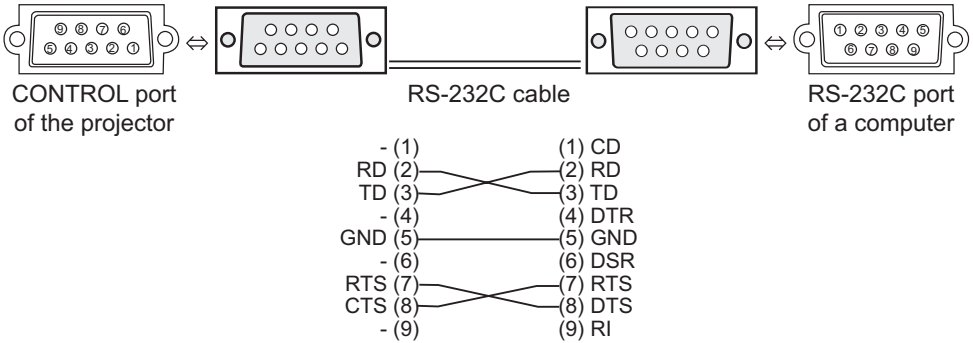
• D-Sub 15 pin jack

Pin	Signal	Pin	Signal
1	Video input Red	9	-
2	Video input Green	10	Ground
3	Video input Blue	11	-
4	-	12	SDA (DDC Data)
5	Ground	13	H.sync / Composite sync
6	Ground Red	14	V.sync
7	Ground Green	15	SCL (DDC Clock)
8	Ground Blue		

(6) CONTROL

Please see the section "RS-232C Communication"

## RS-232C Communication



### Connecting the cable

1. Turn off the projector and the computer power supplies.
2. Connect the CONTROL port of the projector with a RS-232C port of the computer by a RS-232C cable. Use the cable that fulfills the specification shown above.
3. Turn on the computer power supply and after the computer has started up, turn on the projector power supply.

### Communications setting

19200 bps, 8N1

#### 1. Protocol

Consist of header (7 bytes) + Command data (6 bytes)

#### 2. Header

BE + EF + 03 + 06 + 00 + CRC\_low + CRC\_high

CRC\_low: Lower byte of CRC flag for command data

CRC\_high: Upper byte of CRC flag for command data

#### 3. Command Data

Command Data Chart

byte_0	byte_1	byte_2	byte_3	byte_4	byte_5
Action		Type		Setting code	
low	high	low	high	low	high

Action (byte\_0 - 1)

Action	Classification	Content
1	Set	Change setting to desired value.
2	Get	Reasd projector internal setup value.
4	Increment	Increment setup value by 1.
5	Decrement	Decrement setup value by 1.
6	Execute	Run a command.

**Requesting projector status (Get command)**

- (1) Send the request code Header + Command data ('02H'+ '00H'+ type (2 bytes)+ '00H'+ '00H') from the computer to the projector.
- (2) The projector returns the response code '1DH'+ data (2 bytes) to the computer.

**Changing the projector settings (Set command)**

- (1) Send the setting code Header + Command data ('01H'+ '00H'+ type (2 bytes) + setting code (2 bytes)) from the computer to the projector.
- (2) The projector changes the setting based on the above setting code.
- (3) The projector returns the response code '06H' to the computer.

**Using the projector default settings (Reset Command)**

- (1) The computer sends the default setting code Header + Command data ('06H'+ '00H'+ type (2 bytes) + '00H'+ '00H') to the projector.
- (2) The projector changes the specified setting to the default value.
- (3) The projector returns the response code '06H' to the computer.

**Increasing the projector setting value (Increment command)**

- (1) The computer sends the increment code Header + Command data ('04H'+ '00H'+ type (2 bytes) + '00H'+ '00H') to the projector.
- (2) The projector increases the setting value on the above setting code.
- (3) The projector returns the response code '06H' to the computer.

**Decreasing the projector setting value (Decrement command)**

- (1) The computer sends the decrement code Header + Command data ('05H'+ '00H'+ type (2 bytes) + '00H' + '00H') to the projector.
- (2) The projector decreases the setting value on the above setting code.
- (3) The projector returns the response code '06H' to the computer.

**When the projector cannot understand the received command**

When the projector cannot understand the received command, the error code '15H' is sent back to the computer.

Sometimes the projector cannot properly receive the command. In such a case, the command is not executed and the error code '15H' is sent back to the computer. If this error code is returned, send the same command again.

**When the projector cannot execute the received command.**

When the projector cannot execute the received command, the error code '1cH' + 'xxxxH' is sent back to the computer. When the data length is greater than indicated by the data length code, the projector ignore the excess data code.

Conversely when the data length is shorter than indicated by the data length code, an error code will be returned to the computer.

**NOTE** • Operation cannot be guaranteed when the projector receives an undefined command or data.

- Provide an interval of at least 40ms between the response code and any other code.
- The projector outputs test data when the power supply is switched ON, and when the lamp is lit. Ignore this data.
- Commands are not accepted during warm-up.

**RS-232C Communication (continued)**

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
Power	Set	Turn off	BE EF	03	06 00	2A D3	01 00	00 60	00 00
		Turn on	BE EF	03	06 00	BA D2	01 00	00 60	01 00
	Get	Get	BE EF	03	06 00	19 D3	02 00	00 60	00 00
		(Example return) 00 00 (Off)      01 00 (On)      02 00 (Cool down)							
Input Source	Set	DVI	BE EF	03	06 00	0E D2	01 00	00 20	03 00
		COMPUTER	BE EF	03	06 00	FE D2	01 00	00 20	00 00
		VIDEO	BE EF	03	06 00	6E D3	01 00	00 20	01 00
		S-VIDEO	BE EF	03	06 00	9E D3	01 00	00 20	02 00
		COMPONENT	BE EF	03	06 00	AE D1	01 00	00 20	05 00
Error Status	Get	Get	BE EF	03	06 00	CD D2	02 00	00 20	00 00
		(Example return) 00 00 (Normal)      01 00 (Cover error)      02 00 (Fan error)      03 00 (Lamp error) 04 00 (Temp error)      05 00 (Air flow error)      06 00 (Lamp time error)      07 00 (Cool error) 08 00 (Filter error)							
BRIGHT	Get	Get	BE EF	03	06 00	89 D2	02 00	03 20	00 00
		Increment	BE EF	03	06 00	EF D2	04 00	03 20	00 00
		Decrement	BE EF	03	06 00	3E D3	05 00	03 20	00 00
BRIGHT Reset	Execute	BE EF	03	06 00	58 D3	06 00	00 70	00 00	
CONTRAST	Get	Get	BE EF	03	06 00	FD D3	02 00	04 20	00 00
		Increment	BE EF	03	06 00	9B D3	04 00	04 20	00 00
		Decrement	BE EF	03	06 00	4A D2	05 00	04 20	00 00
CONTRAST Reset	Execute	BE EF	03	06 00	A4 D2	06 00	01 70	00 00	
MODE	Set	NORMAL	BE EF	03	06 00	23 F6	01 00	BA 30	00 00
		CINEMA	BE EF	03	06 00	B3 F7	01 00	BA 30	01 00
		MUSIC	BE EF	03	06 00	43 F7	01 00	BA 30	02 00
		SPORTS	BE EF	03	06 00	D3 F6	01 00	BA 30	03 00
		DYNAMIC	BE EF	03	06 00	E3 F4	01 00	BA 30	04 00
	Get	BE EF	03	06 00	10 F6	02 00	BA 30	00 00	
GAMMA	Set	#1 DEFAULT	BE EF	03	06 00	07 E9	01 00	A1 30	20 00
		#1 CUSTOM	BE EF	03	06 00	07 FD	01 00	A1 30	10 00
		#2 DEFAULT	BE EF	03	06 00	97 E8	01 00	A1 30	21 00
		#2 CUSTOM	BE EF	03	06 00	97 FC	01 00	A1 30	11 00
		#3 DEFAULT	BE EF	03	06 00	67 E8	01 00	A1 30	22 00
		#3 CUSTOM	BE EF	03	06 00	67 FC	01 00	A1 30	12 00
		#4 DEFAULT	BE EF	03	06 00	F7 E9	01 00	A1 30	23 00
		#4 CUSTOM	BE EF	03	06 00	F7 FD	01 00	A1 30	13 00
	Get	BE EF	03	06 00	F4 F0	02 00	A1 30	00 00	
			(Example return) 00 00 (Normal)      01 00 (Cinema)      02 00 (Music)      03 00 (Sports)      04 00 (Dynamic)      10 00 (Custom)						

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
User Gamma Pattern	Set	Off	BE EF	03	06 00	FB FA	01 00	80 30	00 00
		9 step gray scale	BE EF	03	06 00	6B FB	01 00	80 30	01 00
		15 steps gray scale	BE EF	03	06 00	9B FB	01 00	80 30	02 00
		Ramp	BE EF	03	06 00	0B FA	01 00	80 30	03 00
	Get	BE EF	03	06 00	C8 FA	02 00	80 30	00 00	
User Gamma Point 1	Get	BE EF	03	06 00	08 FE	02 00	90 30	00 00	
	Increment	BE EF	03	06 00	6E FE	04 00	90 30	00 00	
	Decrement	BE EF	03	06 00	BF FF	05 00	90 30	00 00	
User Gamma Point 2	Get	BE EF	03	06 00	F4 FF	02 00	91 30	00 00	
	Increment	BE EF	03	06 00	92 FF	04 00	91 30	00 00	
	Decrement	BE EF	03	06 00	43 FE	05 00	91 30	00 00	
User Gamma Point 3	Get	BE EF	03	06 00	B0 FF	02 00	92 30	00 00	
	Increment	BE EF	03	06 00	D6 FF	04 00	92 30	00 00	
	Decrement	BE EF	03	06 00	07 FE	05 00	92 30	00 00	
User Gamma Point 4	Get	BE EF	03	06 00	4C FE	02 00	93 30	00 00	
	Increment	BE EF	03	06 00	2A FE	04 00	93 30	00 00	
	Decrement	BE EF	03	06 00	FB FF	05 00	93 30	00 00	
User Gamma Point 5	Get	BE EF	03	06 00	38 FF	02 00	94 30	00 00	
	Increment	BE EF	03	06 00	5E FF	04 00	94 30	00 00	
	Decrement	BE EF	03	06 00	8F FE	05 00	94 30	00 00	
User Gamma Point 6	Get	BE EF	03	06 00	C4 FE	02 00	95 30	00 00	
	Increment	BE EF	03	06 00	A2 FE	04 00	95 30	00 00	
	Decrement	BE EF	03	06 00	73 FF	05 00	95 30	00 00	
User Gamma Point 7	Get	BE EF	03	06 00	80 FE	02 00	96 30	00 00	
	Increment	BE EF	03	06 00	E6 FE	04 00	96 30	00 00	
	Decrement	BE EF	03	06 00	37 FF	05 00	96 30	00 00	
User Gamma Point 8	Get	BE EF	03	06 00	7C FF	02 00	97 30	00 00	
	Increment	BE EF	03	06 00	1A FF	04 00	97 30	00 00	
	Decrement	BE EF	03	06 00	CB FE	05 00	97 30	00 00	
COLOR TEMP	Set	6500K	BE EF	03	06 00	AB C5	01 00	B0 30	41 00
		7500K	BE EF	03	06 00	0B C3	01 00	B0 30	4B 00
		8000K	BE EF	03	06 00	FB C9	01 00	B0 30	50 00
		8500K	BE EF	03	06 00	AB CA	01 00	B0 30	55 00
		9300K	BE EF	03	06 00	6B CD	01 00	B0 30	5D 00
		DYNAMIC	BE EF	03	06 00	3B F2	01 00	B0 30	08 00
		CUSTOM	BE EF	03	06 00	3B F8	01 00	B0 30	10 00
	Get	BE EF	03	06 00	C8 F5	02 00	B0 30	00 00	

TECHNICAL

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
COLOR TEMP GAIN R	Get	BE EF	03	06 00	34 F4	02 00	B1 30	00 00	
	Increment	BE EF	03	06 00	52 F4	04 00	B1 30	00 00	
	Decrement	BE EF	03	06 00	83 F5	05 00	B1 30	00 00	
COLOR TEMP GAIN G	Get	BE EF	03	06 00	70 F4	02 00	B2 30	00 00	
	Increment	BE EF	03	06 00	16 F4	04 00	B2 30	00 00	
	Decrement	BE EF	03	06 00	C7 F5	05 00	B2 30	00 00	
COLOR TEMP GAIN B	Get	BE EF	03	06 00	8C F5	02 00	B3 30	00 00	
	Increment	BE EF	03	06 00	EA F5	04 00	B3 30	00 00	
	Decrement	BE EF	03	06 00	3B F4	05 00	B3 30	00 00	
COLOR TEMP OFFSET R	Get	BE EF	03	06 00	04 F5	02 00	B5 30	00 00	
	Increment	BE EF	03	06 00	62 F5	04 00	B5 30	00 00	
	Decrement	BE EF	03	06 00	B3 F4	05 00	B5 30	00 00	
COLOR TEMP OFFSET G	Get	BE EF	03	06 00	40 F5	02 00	B6 30	00 00	
	Increment	BE EF	03	06 00	26 F5	04 00	B6 30	00 00	
	Decrement	BE EF	03	06 00	F7 F4	05 00	B6 30	00 00	
COLOR TEMP OFFSET B	Get	BE EF	03	06 00	BC F4	02 00	B7 30	00 00	
	Increment	BE EF	03	06 00	DA F4	04 00	B7 30	00 00	
	Decrement	BE EF	03	06 00	0B F5	05 00	B7 30	00 00	
COLOR	Get	BE EF	03	06 00	B5 72	02 00	02 22	00 00	
	Increment	BE EF	03	06 00	D3 72	04 00	02 22	00 00	
	Decrement	BE EF	03	06 00	02 73	05 00	02 22	00 00	
COLOR Reset	Execute	BE EF	03	06 00	80 D0	06 00	0A 70	00 00	
TINT	Get	BE EF	03	06 00	49 73	02 00	03 22	00 00	
	Increment	BE EF	03	06 00	2F 73	04 00	03 22	00 00	
	Decrement	BE EF	03	06 00	FE 72	05 00	03 22	00 00	
TINT Reset	Execute	BE EF	03	06 00	7C D1	06 00	0B 70	00 00	
SHARPNESS	Get	BE EF	03	06 00	F1 72	02 00	01 22	00 00	
	Increment	BE EF	03	06 00	97 72	04 00	01 22	00 00	
	Decrement	BE EF	03	06 00	46 73	05 00	01 22	00 00	
SHARPNESS Reset	Execute	BE EF	03	06 00	C4 D0	06 00	09 70	00 00	
MY MEMORY Load	Set	1	BE EF	03	06 00	0E D7	01 00	14 20	00 00
		2	BE EF	03	06 00	9E D6	01 00	14 20	01 00
		3	BE EF	03	06 00	6E D6	01 00	14 20	02 00
		4	BE EF	03	06 00	FE D7	01 00	14 20	03 00
MY MEMORY Save	Set	1	BE EF	03	06 00	F2 D6	01 00	15 20	00 00
		2	BE EF	03	06 00	62 D7	01 00	15 20	01 00
		3	BE EF	03	06 00	92 D7	01 00	15 20	02 00
		4	BE EF	03	06 00	02 D6	01 00	15 20	03 00
PROGRESSIVE	Set	TURN OFF	BE EF	03	06 00	4A 72	01 00	07 22	00 00
		TV	BE EF	03	06 00	DA 73	01 00	07 22	01 00
		FILM	BE EF	03	06 00	2A 73	01 00	07 22	02 00
	Get	BE EF	03	06 00	79 72	02 00	07 22	00 00	

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
ASPECT	Set	4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00
		16:9	BE EF	03	06 00	0E D1	01 00	08 20	01 00
		WIDE	BE EF	03	06 00	CE D3	01 00	08 20	05 00
		MOVIE1	BE EF	03	06 00	3E D3	01 00	08 20	06 00
		MOVIE2	BE EF	03	06 00	AE D2	01 00	08 20	07 00
		NORMAL	BE EF	03	06 00	5E DD	01 00	08 20	10 00
	Get	BE EF	03	06 00	AD D0	02 00	08 20	00 00	
OVER SCAN	Get	BE EF	03	06 00	91 70	02 00	09 22	00 00	
	Increment	BE EF	03	06 00	F7 70	04 00	09 22	00 00	
	Decrement	BE EF	03	06 00	26 71	05 00	09 22	00 00	
OVER SCAN Reset	Execute	BE EF	03	06 00	EC D9	06 00	27 70	00 00	
V POSITION	Get	BE EF	03	06 00	0D 83	02 00	00 21	00 00	
	Increment	BE EF	03	06 00	6B 83	04 00	00 21	00 00	
	Decrement	BE EF	03	06 00	BA 82	05 00	00 21	00 00	
V POSITION Reset	Execute	BE EF	03	06 00	E0 D2	06 00	02 70	00 00	
H POSITION	Get	BE EF	03	06 00	F1 82	02 00	01 21	00 00	
	Increment	BE EF	03	06 00	97 82	04 00	01 21	00 00	
	Decrement	BE EF	03	06 00	46 83	05 00	01 21	00 00	
H POSITION Reset	Execute	BE EF	03	06 00	1C D3	06 00	03 70	00 00	
H PHASE	Get	BE EF	03	06 00	49 83	02 00	03 21	00 00	
	Increment	BE EF	03	06 00	2F 83	04 00	03 21	00 00	
	Decrement	BE EF	03	06 00	FE 82	05 00	03 21	00 00	
H SIZE	Get	BE EF	03	06 00	B5 82	02 00	02 21	00 00	
	Increment	BE EF	03	06 00	D3 82	04 00	02 21	00 00	
	Decrement	BE EF	03	06 00	02 83	05 00	02 21	00 00	
H SIZE Reset	Execute	BE EF	03	06 00	68 D2	06 00	04 70	00 00	
AUTO ADJUST	Execute	BE EF	03	06 00	91 D0	06 00	0A 20	00 00	

**RS-232C Communication (continued)**

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
COLOR SPACE	Set	AUTO	BE EF	03	06 00	0E 72	01 00	04 22	00 00
		RGB	BE EF	03	06 00	9E 73	01 00	04 22	01 00
		SMPTE240	BE EF	03	06 00	6E 73	01 00	04 22	02 00
		REC709	BE EF	03	06 00	FE 72	01 00	04 22	03 00
		REC601	BE EF	03	06 00	CE 70	01 00	04 22	04 00
	Get	BE EF	03	06 00	3D 72	02 00	04 22	00 00	
COMPONENT	Set	COMPONENT	BE EF	03	06 00	4A D7	01 00	17 20	00 00
		SCART RGB	BE EF	03	06 00	DA D6	01 00	17 20	01 00
	Get	BE EF	03	06 00	79 D7	02 00	17 20	00 00	
VIDEO FORMAT	Set	AUTO	BE EF	03	06 00	9E 75	01 00	00 22	0A 00
		NTSC	BE EF	03	06 00	FE 71	01 00	00 22	04 00
		PAL	BE EF	03	06 00	6E 70	01 00	00 22	05 00
		SECAM	BE EF	03	06 00	6E 75	01 00	00 22	09 00
		NTSC4.43	BE EF	03	06 00	5E 72	01 00	00 22	02 00
		M-PAL	BE EF	03	06 00	FE 74	01 00	00 22	08 00
	N-PAL	BE EF	03	06 00	0E 71	01 00	00 22	07 00	
Get	BE EF	03	06 00	0D 73	02 00	00 22	00 00		
DVI	Set	DVD	BE EF	03	06 00	3E D9	01 00	20 20	00 00
		COMPUTER	BE EF	03	06 00	AE D8	01 00	20 20	01 00
	Get	BE EF	03	06 00	0D D9	02 00	20 20	00 00	
S-ASPECT	Set	TURN OFF	BE EF	03	06 00	1A 71	01 00	0B 22	00 00
		TURN ON	BE EF	03	06 00	8A 70	01 00	0B 22	01 00
	Get	BE EF	03	06 00	29 71	02 00	0B 22	00 00	



Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
KEYSTONE V	Get	BE EF	03	06 00	B9 D3	02 00	07 20	00 00	
	Increment	BE EF	03	06 00	DF D3	04 00	07 20	00 00	
	Decrement	BE EF	03	06 00	0E D2	05 00	07 20	00 00	
KEYSTONE V Reset	Execute	BE EF	03	06 00	08 D0	06 00	0C 70	00 00	
OPTICAL BLACK	Set	OFF	BE EF	03	06 00	7F 23	01 00	03 33	00 00
		NATURAL	BE EF	03	06 00	EF 22	01 00	03 33	01 00
		DEEP	BE EF	03	06 00	1F 22	01 00	03 33	02 00
	Get	BE EF	03	06 00	4C 23	02 00	03 33	00 00	
		(Example return)		00 00 (Off)	01 00 (Natural)	02 00 (Deep)	03 00 (Custom)		
WHISPER	Set	NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00
		WHISPER	BE EF	03	06 00	AB 22	01 00	00 33	01 00
	Get	BE EF	03	06 00	08 23	02 00	00 33	00 00	
IRIS	Get	BE EF	03	06 00	B0 22	02 00	02 33	00 00	
	Increment	BE EF	03	06 00	D6 22	04 00	02 33	00 00	
	Decrement	BE EF	03	06 00	07 23	05 00	02 33	00 00	
MIRROR	Set	NORMAL	BE EF	03	06 00	C7 D2	01 00	01 30	00 00
		H:INVERT	BE EF	03	06 00	57 D3	01 00	01 30	01 00
		V:INVERT	BE EF	03	06 00	A7 D3	01 00	01 30	02 00
		H&V:INVERT	BE EF	03	06 00	37 D2	01 00	01 30	03 00
	Get	BE EF	03	06 00	F4 D2	02 00	01 30	00 00	
LANGUAGE	Set	ENGLISH	BE EF	03	06 00	F7 D3	01 00	05 30	00 00
		FRANÇAIS	BE EF	03	06 00	67 D2	01 00	05 30	01 00
		DEUTSCH	BE EF	03	06 00	97 D2	01 00	05 30	02 00
		ESPAÑOL	BE EF	03	06 00	07 D3	01 00	05 30	03 00
		ITALIANO	BE EF	03	06 00	37 D1	01 00	05 30	04 00
		NORSK	BE EF	03	06 00	A7 D0	01 00	05 30	05 00
		NEDERLANDS	BE EF	03	06 00	57 D0	01 00	05 30	06 00
		PORTUGUÊS	BE EF	03	06 00	C7 D1	01 00	05 30	07 00
		日本語	BE EF	03	06 00	37 D4	01 00	05 30	08 00
		中文	BE EF	03	06 00	A7 D5	01 00	05 30	09 00
		한글	BE EF	03	06 00	57 D5	01 00	05 30	0A 00
		SVENSKA	BE EF	03	06 00	C7 D4	01 00	05 30	0B 00
		РУССКИЙ	BE EF	03	06 00	F7 D6	01 00	05 30	0C 00
		SUOMI	BE EF	03	06 00	67 D7	01 00	05 30	0D 00
POLSKI	BE EF	03	06 00	97 D7	01 00	05 30	0E 00		
		Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00
MENU POSITION H	Get	BE EF	03	06 00	04 D7	02 00	15 30	00 00	
	Increment	BE EF	03	06 00	62 D7	04 00	15 30	00 00	
	Decrement	BE EF	03	06 00	B3 D6	05 00	15 30	00 00	
MENU POSITION H Reset	Execute	BE EF	03	06 00	DC C6	06 00	43 70	00 00	
MENU POSITION V	Get	BE EF	03	06 00	40 D7	02 00	16 30	00 00	
	Increment	BE EF	03	06 00	26 D7	04 00	16 30	00 00	
	Decrement	BE EF	03	06 00	F7 D6	05 00	16 30	00 00	
MENU POSITION V Reset	Execute	BE EF	03	06 00	A8 C7	06 00	44 70	00 00	

**RS-232C Communication (continued)**

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
OSD BRIGHT	Get	BE EF	03	06 00	A8 D5	02 00	18 30	00 00	
	Increment	BE EF	03	06 00	CE D5	04 00	18 30	00 00	
	Decrement	BE EF	03	06 00	1F D4	05 00	18 30	00 00	
START UP	Set	My Screen	BE EF	03	06 00	CB CB	01 00	04 30	20 00
		ORIGINAL	BE EF	03	06 00	0B D2	01 00	04 30	00 00
		TURN OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00
	Get	BE EF	03	06 00	38 D2	02 00	04 30	00 00	
My Screen LOCK	Set	TURN OFF	BE EF	03	06 00	3B EF	01 00	C0 30	00 00
		TURN ON	BE EF	03	06 00	AB EE	01 00	C0 30	01 00
	Get	BE EF	03	06 00	08 EF	02 00	C0 30	00 00	
Message	Set	TURN OFF	BE EF	03	06 00	8F D6	01 00	17 30	00 00
		TURN ON	BE EF	03	06 00	1F D7	01 00	17 30	01 00
	Get	BE EF	03	06 00	BC D6	02 00	17 30	00 00	
AUTO POWER OFF	Get	BE EF	03	06 00	08 86	02 00	10 31	00 00	
	Increment	BE EF	03	06 00	6E 86	04 00	10 31	00 00	
	Decrement	BE EF	03	06 00	BF 87	05 00	10 31	00 00	
LAMP TIME	Get	BE EF	03	06 00	C2 FF	02 00	90 10	00 00	
LAMP TIME Reset	Execute	BE EF	03	06 00	58 DC	06 00	30 70	00 00	
FILTER TIME	Get	BE EF	03	06 00	C2 F0	02 00	A0 10	00 00	
FILER TIME Reset	Execute	BE EF	03	06 00	98 C6	06 00	40 70	00 00	

# HITACHI

Inspire the Next

## Projector

# PJ-TX100

PJ-TX100W/E/U

ENGLISH

FRANÇAIS

DEUTSCH

ESPAÑOL

ITALIANO

NORSK

NEDERLANDS

PORTUGUÊS

中文

한국어

## User's Manual - Quick Guide

Please read this user's manual thoroughly to ensure correct usage understanding.

## Manuel d'utilisation - Guide rapide

Nous vous recommandons de lire attentivement ce manuel pour bien assimiler le fonctionnement de l'appareil.

## Bedienungsanleitung - Kurz-Anleitung

Um zu gewährleisten, dass Sie die Bedienung des Geräts verstanden haben, lesen Sie dieses Handbuch bitte sorgfältig.

## Manual de usuario - Guía rápida

Lea atentamente el manual de usuario del proyector para garantizar un uso adecuado del mismo.

## Manuale d'istruzioni - Guida rapida

Vi preghiamo di leggere attentamente il manuale d'istruzioni per garantire una corretta comprensione delle istruzioni.

## Brukerhåndbok - Hurtigguide

Vennligst les denne brukerhåndbok grundig for å være garantert driftssikker bruk.

## Gebruiksaanwijzing - Beknopte handleiding

Lees deze gebruikershandleiding grondig door, zodat u de werking ervan begrijpt en correct gebruik verzekerd is.

## Instruções do proprietário - Guia Rápido

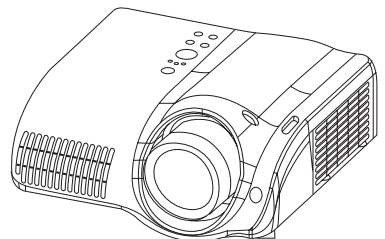
Leia atentamente o presente manual do utilizador para garantir a utilização correcta por via da sua compreensão.

## 使用说明书 - 快速指南

请仔细阅读本《使用说明书》，在理解的基础上正确使用。

## 사용 설명서 - 빨리보기 가이드

본 사용자 설명서를 잘 읽으시고 이해하신 후, 올바르게 사용해 주십시오.



# Projector

## PJ-TX100

PJ-TX100W/E/U

### User's Manual - Quick Guide

Thank you for purchasing this projector.

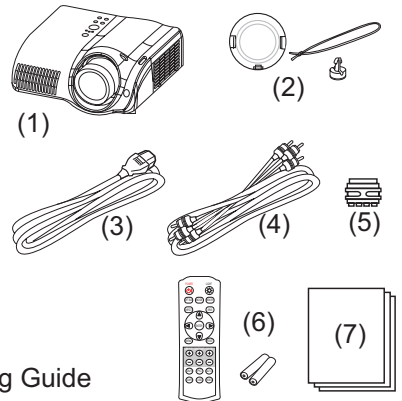
**WARNING** ▶ Before using, read the "User's Manual - Safety Guide" and these manuals to ensure correct usage through understanding. After reading, store them in a safe place for future reference.

**NOTE** • The information in this manual is subject to change without notice.

- The manufacture assumes no responsibility for any errors that may appear in this manual.
- The reproduction, transmission or use of this document or contents is not permitted without express written authority.

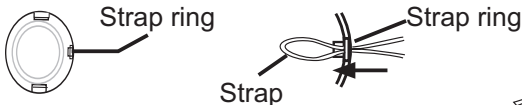
### Contents of package

- (1) Projector
- (2) Lens cover, Rivet and Strap
- (3) Power cord  
PJ-TX100W: 3 cords (US, UK, Europe)  
PJ-TX100E: 2 cords (UK, Europe)  
PJ-TX100U: 1 cord (US)
- (4) Component video cable
- (5) (PJ-TX100E only) SCART adapter
- (6) Remote control and 2 AAA batteries
- (7) User's manual  
Safety guide, Quick guide (this) and Operating Guide

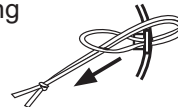


### Fastening the lens cover

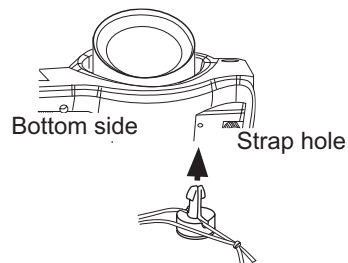
1. Fix the strap to the strap ring of lens cover.



2. Put the strap into the groove on rivet.



3. Push the rivet into the strap hole.

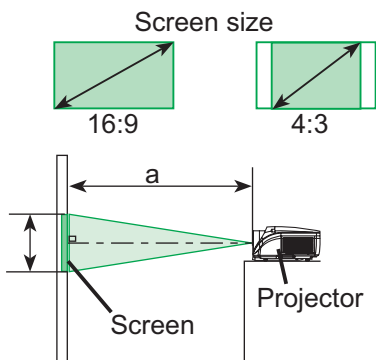


## Arrangement

**⚠ WARNING** ▶ Install the projector in a suitable environment according to instructions of the "User's Manual - Safety Guide".

**⚠ CAUTION** ▶ This projector has some intake vents also on the bottom. Avoid blocking vents. Put nothing that is sucked or sticks to the bottom of projector.

(calculated for a full size screen, ±10%)



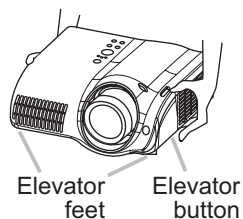
Screen size [inch (m)]	a: Projection distance [inch (m)]			
	16:9		4:3	
	min.	max.	min.	max.
30 (0.8)	32 (0.8)	52 (1.3)	39 (1.0)	65 (1.6)
40 (1.0)	43 (1.1)	70 (1.8)	53 (1.4)	87 (2.2)
50 (1.3)	54 (1.4)	89 (2.3)	67 (1.7)	109 (2.8)
60 (1.5)	66 (1.7)	107 (2.7)	81 (2.1)	131 (3.3)
70 (1.8)	77 (2.0)	125 (3.2)	95 (2.4)	153 (3.9)
80 (2.0)	89 (2.2)	143 (3.6)	109 (2.8)	175 (4.5)
90 (2.3)	100 (2.5)	161 (4.1)	122 (3.1)	198 (5.0)
100 (2.5)	111 (2.8)	179 (4.6)	136 (3.5)	220 (5.6)
120 (3.0)	134 (3.4)	215 (5.5)	164 (4.2)	264 (6.7)
150 (3.8)	168 (4.3)	270 (6.9)	206 (5.2)	330 (8.4)
200 (5.1)	225 (5.7)	360 (9.2)	275 (7.0)	441 (11.2)
250 (6.4)	281 (7.1)	451 (11.5)	344 (8.7)	552 (14.0)
300 (7.6)	338 (8.6)	541 (13.8)	413 (10.5)	663 (16.8)

## Adjusting the projector's elevator

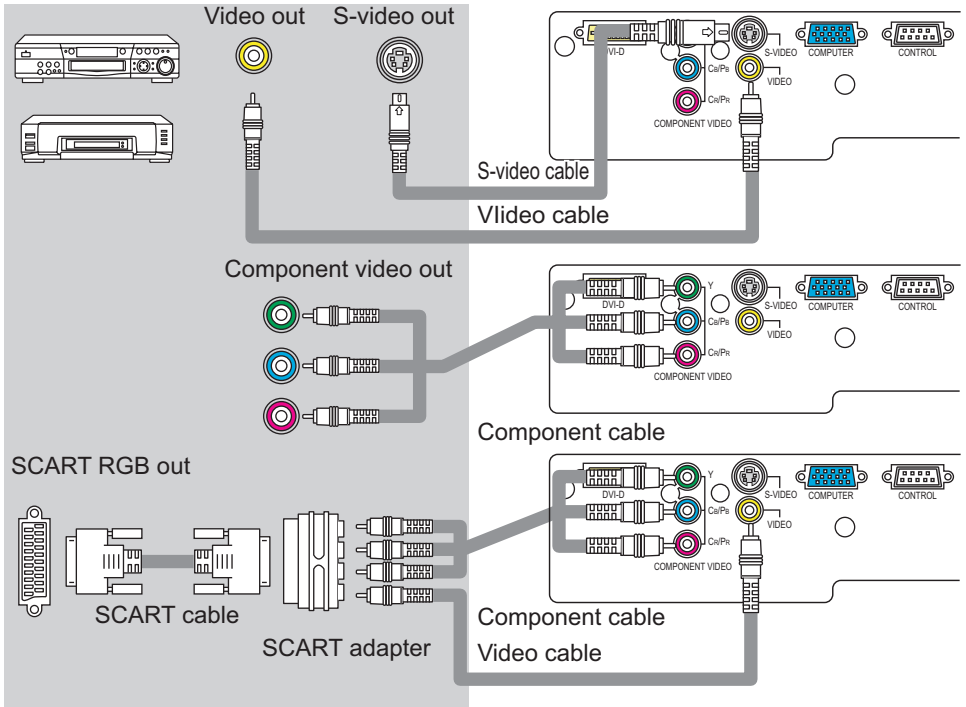
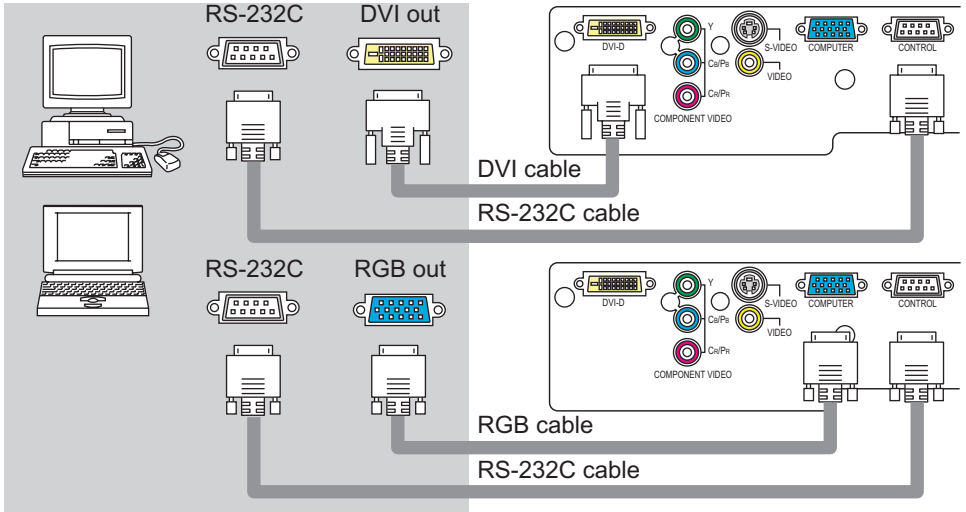
**⚠ WARNING** ▶ Do not touch about the lens and ventilation openings during use or immediately after use to prevent a burn.

**⚠ CAUTION** ▶ To prevent damaging the projector and injuring yourself, always hold the projector whenever using the elevator buttons to adjust the elevator feet.

1. Press and hold in the elevator buttons.
2. Raise or lower the projector to the desired height and then release the elevator buttons. When you release the elevator buttons, the elevator feet will lock into position.
3. As necessary, you can also finely adjust the height of the projector by twisting the elevator feet by hand.



# Connecting your devices

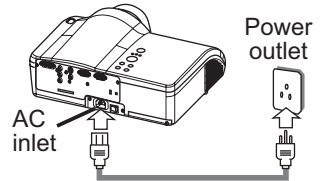


## Connecting the power supply

**⚠ WARNING** ▶ Please use extra caution when connecting the power cord as incorrect or faulty connections may result in fire and/or electrical shock.

- Only use the power cord that came with the projector. If it is damaged, contact your dealer to newly get correct one.
- Only plug the power cord into an outlet rated for use with the power cord's specified voltage range.
- Never modify the power cord. Never attempt to defeat the ground connection of the three-pronged plug.

1. Connect the connector of the power cord to the AC inlet of the projector.
2. Firmly plug the power cord's plug into the outlet.

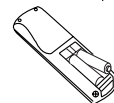


## Putting batteries into the remote control

**⚠ WARNING** ▶ Always handle the batteries with care and use them only as directed. Improper use may result in battery explosion, cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.

- Be sure to use only the batteries specified. Do not use batteries of different types at the same time. Do not mix a new battery with used one.
- Make sure the plus and minus terminals are correctly aligned when loading a battery.
- Keep a battery away from children and pets.
- Do not recharge, short circuit, solder or disassemble a battery.
- Do not allow a battery in a fire or water. Keep batteries in a dark, cool and dry place.
- If you observe a leakage of a battery, wipe out the flow and then replace a battery. If the flow adheres your body or clothes, rinse well with water immediately.

1. Remove the battery cover.
2. Insert the batteries.  
Align and insert the two AAA batteries according to their plus and minus terminals as indicated in the remote control.
3. Close the battery cover.

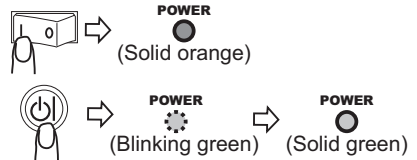


## Operating

**⚠ WARNING** ▶ When the power is on, a strong light is emitted. Do not look into the lens or vents of the projector.

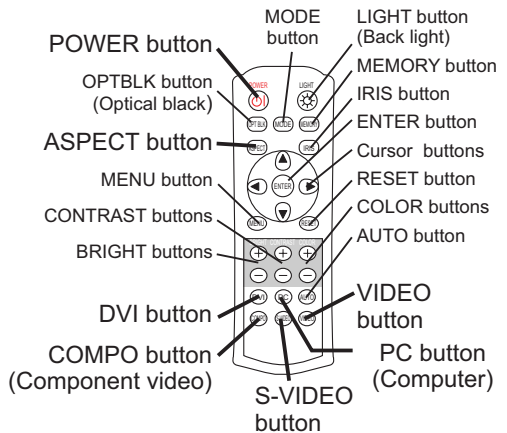
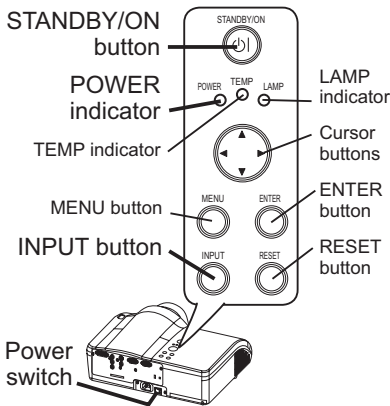
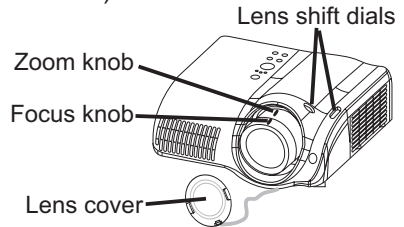
### Turning on the power

1. Set the power switch to the ON position.
2. Press the button STANDBY/ON (projector) or POWER (remote control).



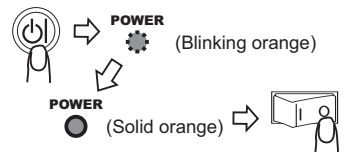
### Displaying

1. To select an input signal, use the button INPUT (projector), or the buttons of PC, COMPO, S-VIDEO, VIDEO, DVI (remote control).
2. To change the aspect ratio, use the button ASPECT (remote control).
3. To finely adjust the picture position, use the lens shift dials.
4. To adjust the zoom and focus, use the zoom knob and the focus knob.



### Turning off the power

1. Press the button STANDBY/ON (projector) or POWER (remote control). The message "Power off?" will appear on the screen for approximately 5 seconds.
2. Press the button STANDBY/ON (projector) or POWER (remote control) again while the message is visible. Then the POWER indicator will stop blinking and light to solid orange when the lamp cooling is complete.
3. Set the power switch to the OFF position. The POWER indicator will go off.





## Lamp

**⚠ WARNING**

HIGH VOLTAGE



HIGH TEMPERATURE



HIGH PRESSURE

► The projector uses a high-pressure mercury glass lamp. The lamp can **break with a loud bang, or burn out**, if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury to escape from the projector's vent holes.

► **About disposal of a lamp** • This product contains a mercury lamp; do not put in trash. Dispose of in accord with environmental laws. For lamp recycling, go to [www.lamprecycle.org](http://www.lamprecycle.org). (in the US) For product disposal, contact your local government agency or [www.eiae.org](http://www.eiae.org) (in the US) or [www.epsc.ca](http://www.epsc.ca) (in Canada). For more information, call your dealer.



- If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.
- If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to breathe the gas that comes out of the projector vents, or get it in your eyes or mouth.
- Before replacing the lamp, make sure the power switch is off and the power cable is not plugged in, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as damaging the lamp.



- Never unscrew except the appointed (marked by an arrow) screws.
- Do not open the lamp cover while the projector is suspended from above. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.
- Do not use the projector with the lamp cover removed. At the lamp replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.



- Use only the lamp of the specified type.
- If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative.
- Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
- If the indicators or a message prompts you to replace the lamp (see the "User's Manual - Operating Guide"), replace the lamp as soon as possible. Using the lamp for long periods of time, or past the replacement date, could cause it to burst. Do not use old (used) lamps; this is a cause of breakage.

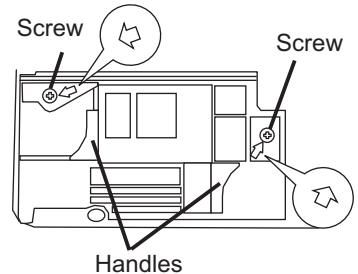
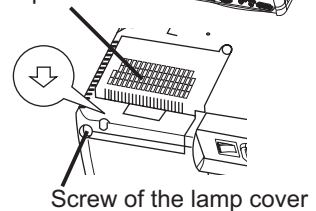
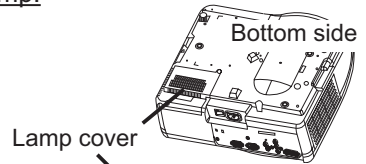
## Lamp replacement

If the indicators or a message prompts you to replace the lamp, replace the lamp as soon as possible.

1. Turn off the projector, and unplug the power cord. Allow the lamp bulb to cool for at least 45 minutes.
2. Contact your dealer to prepare a new lamp. Tell the dealer your lamp type number: **DT00661**. If the projector is mounted on the ceiling, or if the lamp has broken, also ask the dealer to replace the lamp.

### In the case of replacement by yourself,

3. After making sure that the projector has cooled adequately, slowly flip over the projector, so that the bottom is facing up.
4. Unscrew the screw (marked by arrow) of the lamp cover, the slide and take the lamp cover up.
5. Unscrew the 2 screws (marked by arrow), and slowly pick up the lamp by the handles.
6. Insert the new lamp, and retighten firmly two screws unscrewed in the previous process to lock it in place.
7. Slide the lamp cover into place, and retighten firmly the screw of the lamp cover unscrewed in the process no. 4.
8. Turn on the projector power, and reset the lamp timer.



- (1) While the projector running, press the MENU button to open the menu.
- (2) Choose the "OPTION" on the menu using the ▲/▼ button, then press the ► button or ENTER button.
- (3) Choose the "LAMP TIME" using the ▲/▼ button, then press and hold the RESET button for 3 seconds.
- (4) Choose the "RESET" using the ▲ button.

**NOTE** • When the lamp has been replaced after the message of "THE POWER WILL TURN OFF AFTER 0hr." is displayed, complete the following operation within 10 minutes of switching power on.

- Incorrectly resetting of the lamp timer (resetting without replacement, or neglect of resetting after replacement) will result in incorrect message functions.

## Air filter

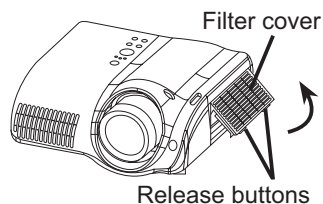
**⚠ WARNING** ► Before replacing the lamp, make sure the power switch is off and the power cable is not plugged in, then wait at least 45 minutes for the lamp to cool sufficiently.

► Use only the air filter of the specified type. Do not use the projector with the air filter and filter cover removed.

**⚠ CAUTION** ► If the air filter becomes clogged by dust or the like, internal temperature rises and the power may be automatically turned off for malfunction prevention .

If the indicators or a message prompts you to clean the air filter, clean the air filter as soon as possible. Please replace the air filter when you replace the lamp, and also when it is damaged or too soiled.

1. Turn off the projector, and unplug the power cord. Allow the lamp bulb to cool for at least 45 minutes.
2. After making sure that the projector has cooled adequately, remove the filter cover and the air filter. Hold its release buttons while pulling up it.



3. Apply a vacuum cleaner to the filter cover and the air filter.

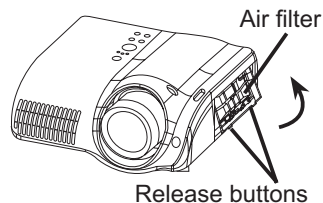
**To replace the air filter,**

Contact your dealer to prepare a new air filter.

Tell the dealer your air filter type number:

**NJ09452.**

4. Insert the cleaned air filter or a new air filter, and replace the filter cover.



5. Turn on the projector power, and reset the filter timer.
  - (1) While the projector running, press the MENU button to open the menu.
  - (2) Choose the "OPTION" on the menu using the ▲/▼ button, then press the ► button or ENTER button.
  - (3) Choose the "FILTER TIME" using the ▲/▼ button, then press and hold the RESET button for 3 seconds.
  - (4) Choose the "RESET" using the ▲ button.

**NOTE** • Incorrectly resetting of the filter timer (resetting without replacement, or neglect of resetting after replacement) will result in incorrect message functions.



# HITACHI

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## Hitachi Europe Ltd.

Whitebrook Park, Lower Cookham Road,  
Maidenhead, Berkshire, SL6 8YA **UK**  
Tel: +44 -01628-643000  
Fax: +44 -01628-643400  
► <http://www.hitachidigitalmedia.com>

## Hitachi Europe GmbH, (Munich Office)

Dornacher Strasser3,  
D-85622 Feldkirchen bei München **GERMANY**  
Tel: +49 -89-991-80-0  
Fax: +49 -89-991-80-224

## Hitachi Europe SRL

Via T. Gulli n.39, 20147 MILAN **ITALY**  
Tel: +39 -02-487861  
Fax: +39 -02-48786381

## Hitachi Europe S.A.S (Lyon Office)

B.P. 45  
69671 Bron Cedex **FRANCE**  
Tel: +33 -04-72-14-29-70  
Fax: +33 -04-72-14-29-99

## Hitachi Europe AB Digital Media Group

Egebækgård, Egebækvej 98  
DK-2850 Nærum **DENMARK**  
Tel: +45 -43-43-60-50  
Fax: +45 -43-43-60-51

## Hitachi Europe S.A.

364 Kifissias Ave. & 1, Delfon Str.  
152 33 Chalandri, Athens **GREECE**  
Tel: +30 -1-6837200  
Fax: +30 -1-6835694

## Hitachi Europe S.A.

Gran Via Carlos III, 86, planta 5  
08028 Barcelona **SPAIN**  
Tel: +34 -93-409-2550  
Fax: +34 -93-491-3513

## Hitachi Europe AB. Digital Media Group

Box 77  
S-164 94 Kista **SWEDEN**  
Tel: +46 -8-562-711-00  
Fax: +46 -8-562-711-21

## Hitachi Europe AB (Norway branch, NUF) Digital Media Group

Strandveien 18  
N-1366 Lysaker **NORWAY**  
Tel: +47 -6751-9030  
Fax: +47 -6751-9032

## Hitachi Europe AB Digital Media Group

Neopoli/Niemenkatu 73  
15140 Lahti **FINLAND**  
Tel: +358 -3-8114-600  
Fax: +358 -3-8114-602

## Hitachi Europe AB Digital Media Group

Bergensesteenweg 421,  
1600 Saint-Peters-Leeuw **BELGIUM**  
Tel: +32 -236-39901  
Fax: +32-236-39900

## Hitachi Europe Ltd. (Praha Office) Digital Media Group

Na Sychrove 975/8  
101 27 Praha 10- Bohdalec **CZECH REPUBLIC**  
Tel: +420 -267-212-383  
Fax: +420 -267-212-385

## Hitachi Europe, Digital Media Group

Gewerbepark, Hintermattlistr. 3,  
5506 Mägenwil **SWITZERLAND**  
Tel: +41-62-889-8011  
Fax: +41-62-896-4771

## Hitachi Europe Ltd. (Moscow office) Digital Media Group

Millenium House, 12 Trubnaya Street  
Moscow 103045 **RUSSIA**  
Tel: +7 -95-787-4020  
Fax: +7 -95-787-4021