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PROJECTOR OWNER'S MANUAL

Dukane

8783

Need a replacement lamp for this projector?

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DUKANE **Projector**

8783
User's Manual (concise)

ENGLISH

Thank you for purchasing this projector.

⚠**WARNING** ►Before using this product, be sure to read all manuals for this product. See “Using the CD manual” (📖**2**) to read the manuals in the CD. After reading them, store them in a safe place for future reference.

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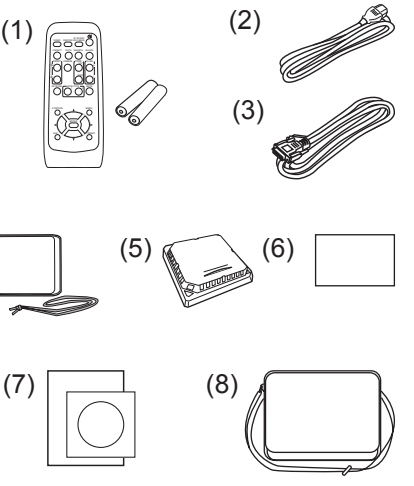
Contents of package

Your projector should come with the items shown below. Check to make sure that all the items are included. Contact to your dealer immediately if any items are missing.

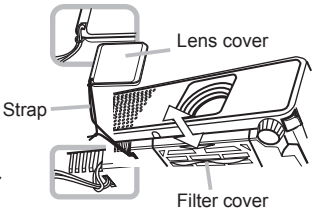
(1) Remote control with two AA batteries
(2) Power cord
(3) RGB cable
(4) Lens cover and Strap
(5) Filter cover for bottom-up use
(6) Security Label
(7) User’s manuals (Book x1, CD x1)
(8) Soft case



NOTE • Keep the original packing materials for future reshipment. Be sure to use the original packing materials when moving the projector. Use special caution for the lens.

Preparations

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



Replacing the filter cover for bottom-up use
When the projector is installed bottom up, please use the enclosed filter cover for bottom-up use. Please refer to the “Air filter” (📖10).

Using the CD manual

The other manuals for this product are written into the included CD-ROM titled “User’s Manual (detailed)”. Before using the CD-ROM, please read the following to ensure the proper use.

■ System requirements

The system for using the CD-ROM requires the following.

Windows®:	OS:Microsoft® Windows® 98, 98SE, NT4.0, Me, 2000/XP, or later CPU:Pentium® processor 133MHz / Memory:32MB or more
Macintosh®:	OS:Mac OS 10.2 or later CPU:Power PC® / Memory:32MB or more
CD-ROM drive:	4x CD-ROM drive
Display:	256 color / 640x480 dots resolution
Applications:	Microsoft Internet Explorer4.0 and Adobe Acrobat Reader 4.0 or later

■ How to use the CD

1. Insert CD into PC’s CD-ROM drive.

Windows®:	In a while, Web browser automatically starts. Start up window comes up.
Macintosh®:	(1) Double-click on the ”Hitachi Projectors” icon appeared on the desktop screen. (2) When “main.html” file is clicked, Web browser will start and Initial window will appear.

2. Click the model name of your projector first, and then click language you want from the displayed list. The user’s manual (detailed) will open.

⚠CAUTION ►Only use the CD-ROM in a computer CD drive. The CD-ROM is designed for PC use only. NEVER INSERT THE CD-ROM INTO A NON-COMPUTER CD PLAYER! Inserting the CD-ROM into an incompatible CD drive may produce a loud noise, which in turn MAY RESULT IN EAR AND SPEAKER DAMAGE!
• After using CD-ROM, please put it into CD case and keep it. Please keep the CD neither in direct sunlight nor in a high temperature and high humidity environment.

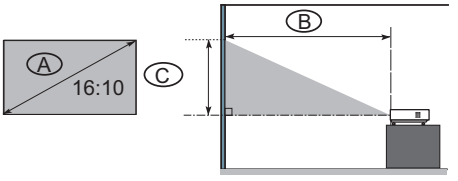
NOTE • The information in the CD-ROM is subject to change without notice.
• No responsibility is taken for any obstacle and defect to hardware and software of your PC as a result of the use of the CD-ROM.
• All or Any part of the information in the CD-ROM must not be copied, reproduced or republished without notice to our company.

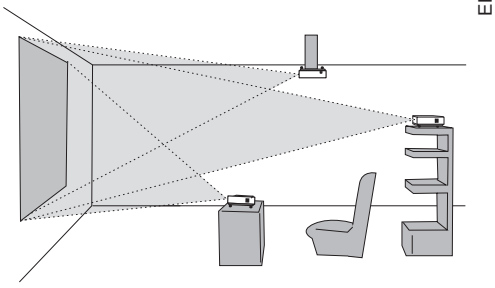
Arrangement

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

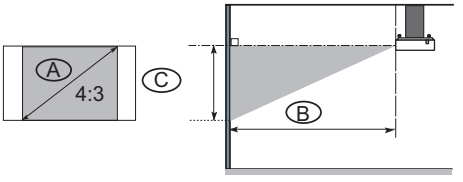
The values shown in the table are calculated for a full size screen: 1280x800
(a) Screen size (diagonal)
(b) Projection distance (±10%)
(c) Screen height (±10%)

On a horizontal surface





Suspended from the ceiling



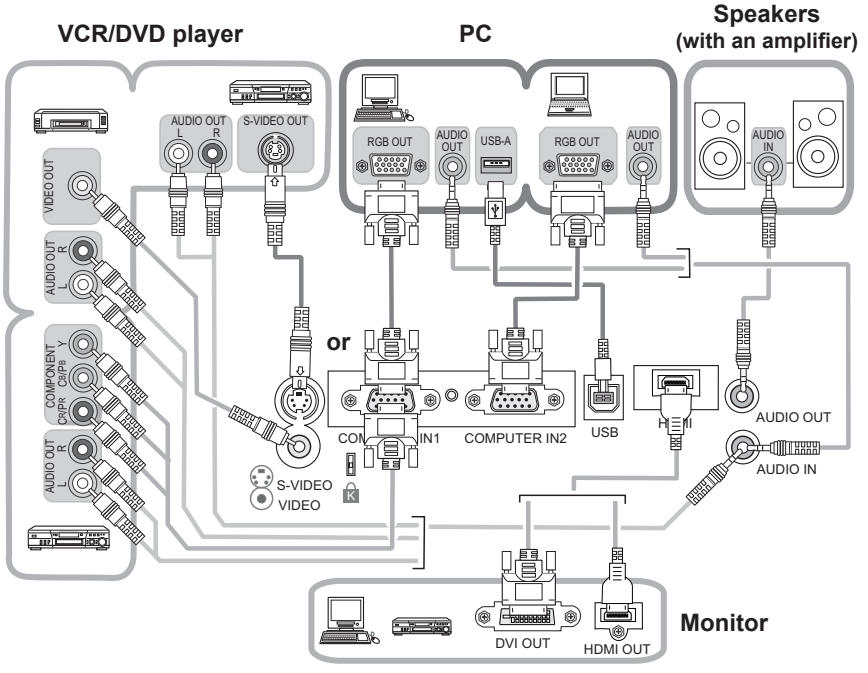
• Keep a space of 30 cm or more between the sides of the projector and other objects such as walls.
• Consult with your dealer before a special installation such as suspending from a ceiling.

Ⓐ Screen size (diagonal)		16:10 screen						4:3 screen					
		Ⓑ Projection distance				Ⓒ Screen height		Ⓑ Projection distance				Ⓒ Screen height	
		min.		max.				min.		max.			
inch	m	m	inch	m	inch	cm	inch	m	inch	m	inch	cm	inch
30	0.8	0.9	37	1.1	45	40	16	1.1	42	1.3	51	46	18
40	1.0	1.3	50	1.5	60	54	21	1.4	57	1.7	68	61	24
50	1.3	1.6	62	1.9	75	67	26	1.8	71	2.2	85	76	30
60	1.5	1.9	75	2.3	90	81	32	2.2	85	2.6	102	91	36
70	1.8	2.2	88	2.7	106	94	37	2.5	100	3.0	120	107	42
80	2.0	2.6	101	3.1	121	108	42	2.9	114	3.5	137	122	48
90	2.3	2.9	113	3.5	136	121	48	3.3	128	3.9	154	137	54
100	2.5	3.2	126	3.8	151	135	53	3.6	143	4.4	171	152	60
120	3.0	3.8	151	4.6	182	162	64	4.4	171	5.2	206	183	72
150	3.8	4.8	189	5.8	228	202	79	5.4	215	6.5	258	229	90
200	5.1	6.4	253	7.7	304	269	106	7.3	286	8.7	344	305	120
250	6.4	8.0	316	9.6	380	337	132	9.1	358	10.9	430	381	150
300	7.6	9.6	380	11.6	456	404	159	10.9	430	13.1	516	457	180

⚠**WARNING** ► Install the projector in a stable horizontal position.
►Place the projector in a cool place, and ensure that there is sufficient ventilation.
►Do not place the projector anyplace where it may get wet.
⚠**CAUTION** ►Avoid placing the projector in smoky, humid or dusty place.
►Position the projector to prevent light from directly hitting the projector's remote sensor.

Connecting your devices

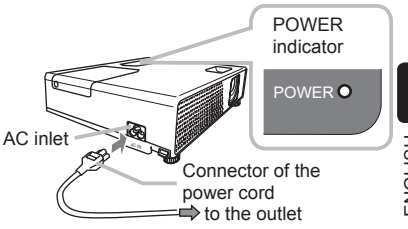
Be sure to read the manuals for devices before connecting them to the projector. Make sure that all the devices are suitable to be connected with this product, and prepare the cables required to connect. Please refer to the following illustrations to connect them.



• The COMPUTER IN1 port can support a component signal also.

⚠**WARNING** ►Do not disassemble or modify the projector and accessories.
►Be careful not to damage the cables, and do not use damaged cables.
⚠**CAUTION** ►Turn off all devices and unplug their power cords prior to connecting them to projector.
►Use appropriate accessory or otherwise designed cables. Ask your dealer about non-accessory cables which may have to be of a specific length or equipped with a core. For cables with a core only at one end, connect the end with the core to the projector.
►Make sure that devices are connected to the correct ports.

Connecting power supply



1. Put the connector of the power cord into the AC inlet of the projector.
2. Firmly plug the power cord's plug into the outlet. In a couple of seconds after the power supply connection, the POWER indicator will light up in steady orange.

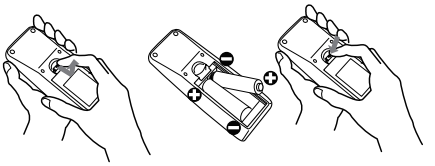
Please remember that when the AUTO ON function activated (📖"Operating Guide" in the CD), the connection of the power supply make the projector turn on.

⚠**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. The power outlet should be close to the projector and easily accessible. Remove the power cord for complete separation.
• Never modify the power cord.

Loading batteries into the remote control

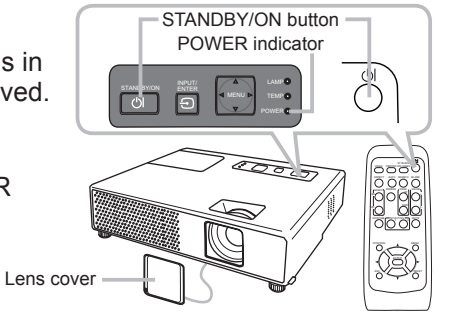
Please set the batteries to the remote control before using it. If the remote control starts to malfunction, try to replace the batteries. If you will not use the remote control for long period, remove the batteries from the remote control and store them in a safe place.

1. Holding the hook part of the battery cover, remove it.
2. Align and insert the two AA batteries **(HITACHI MAXELL, Part No.LR6 or R6P)** according to their plus and minus terminals as indicated in the remote control.
3. Replace the battery cover in the direction of the arrow and snap it back into place.



⚠**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.
• Obey the local laws on disposing the battery.

Turning on the power



1. Make sure that the POWER indicator turns in steady orange and the lens cover is removed.
2. Press the STANDBY/ON button on the projector or the remote control.

The projection lamp will light up and the POWER indicator will begin blinking in green. When the power is completely on, the indicator will stop blinking and light in steady green.

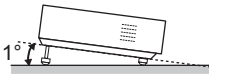
⚠**WARNING** ►A strong light is emitted when the projector's power is on. Do not look into the lens of the projector or look inside of the projector through any of the projector's openings.

NOTE • Please power on the projector prior to the connected devices.
• The projector has the AUTO ON function, which can make the projector automatically turn on. For more information, please see the "Operating Guide" in the CD.

Adjusting the projector's elevator

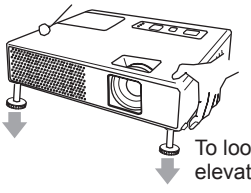
When the place to put the projector is slightly uneven to the left or right, use the elevator feet to place the projector horizontally.

Using the feet can also tilt the projector in order to project at a suitable angle to the screen, elevating the front side of the projector within 11 degrees.



This projector has 2 elevator feet and 2 elevator knobs. An elevator foot is adjustable while pulling up the elevator knob on the same side as it.

1. Holding the projector, pull the elevator knobs up to loose the elevator feet.
2. Position the front side of the projector to the desired height.
3. Release the elevator knobs in order to lock the elevator feet.
4. After making sure that the elevator feet are locked, put the projector gently.
5. If necessary, the elevator feet can be manually twisted to make more precise adjustments. Hold the projector when twisting the feet.



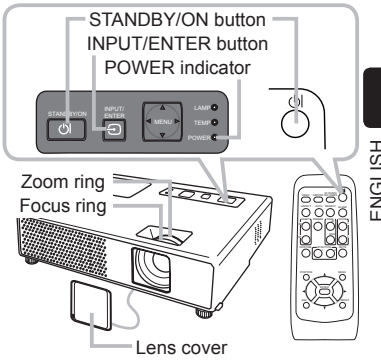
To loose an elevator foot, pull up the elevator knob on the same side as it.

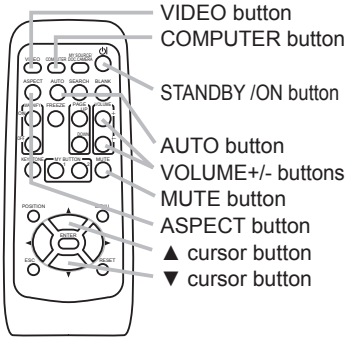
To finely adjust, twist the foot.

⚠**CAUTION** ►Do not handle the elevator knobs without holding the projector, since the projector may drop down.
►Do not tilt the projector other than it elevating its front within 11 degrees using the adjuster feet. A tilt of the projector exceeding the restriction could cause malfunction or shortening the lifetime of consumables, or the projector itself.

Displaying the picture

1. Make sure that the signal source is sending the signal to the projector.
2. Use the VOLUME +/- buttons to adjust the volume. To have the projector silent, press the MUTE button on the remote control.
3. Press the INPUT/ENTER button on the projector.
   Each time you press the button, the projector switches its input port in turn.
   You can also use the remote control to select an input signal. Press the VIDEO button for selecting an input signal from the VIDEO or S-VIDEO port, or the COMPUTER button for selecting an input signal from the COMPUTER IN1 or COMPUTER IN2 port.
4. Press the ASPECT button on the remote control. Each time you press the button, the projector switches the mode for aspect ratio in turn.
5. Use the zoom ring to adjust the screen size.
6. Use the focus ring to focus the picture.





NOTE • The ASPECT button does not work when no proper signal is inputted.

Turning off the power

1. Press the STANDBY/ON button on the projector or the remote control.
   The message "Power off?" will appear on the screen for about 5 seconds.
2. Press the STANDBY/ON button again while the message appears.
   The projector lamp will go off, and the POWER indicator will begin blinking in orange. Then the POWER indicator will stop blinking and light in steady orange when the lamp cooling is complete.
3. Attach the lens cover, after the POWER indicator turns in steady orange.
   Do not turn the projector on for about 10 minutes after turning it off. Turning the projector on again too soon could shorten the lifetime of some consumable parts of the projector.

⚠**WARNING** ►Do not touch around the lamp cover and the exhaust vents during use or just after use, since it is too hot.
►Remove the power cord for complete separation. The power outlet should be close to the projector and easily accessible.

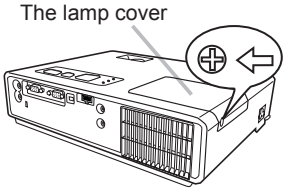
NOTE • Please power off the projector, after any connected devices are powered off.
• This projector has the AUTO OFF function that can make the projector turn off automatically. For more information, please see the “Operating Guide” in the CD.

Lamp

A lamp has finite product life. Using the lamp for long periods of time could cause the pictures darker or the color tone poor. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. Preparation of a new lamp and early replacement are recommended. To prepare a new lamp, contact your dealer and tell the lamp type number.

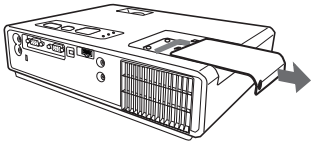
Type number : 456-8783

Replacing the lamp

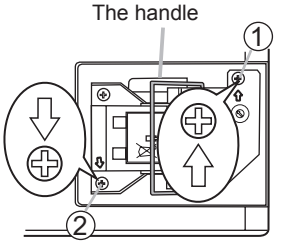


1. Turn the projector off, and unplug the power cord. Allow the projector to cool for at least 45 minutes.
2. Prepare a new lamp. If the projector is mounted on a ceiling, or if the lamp has broken, also ask the dealer to replace the lamp.

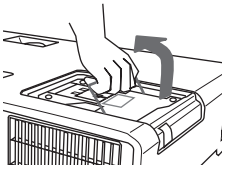
In case of replacement by yourself,



3. Loosen the screw (marked by arrow) of the lamp cover and then slide the lamp cover to the side to remove it.
4. Loosen the 2 screws (marked by arrow) of the lamp, and slowly pick up the lamp by the handle. It may make it easy to take the lamp out slightly toward the control panel of the projector.



5. Insert the new lamp, and retighten firmly the 2 screws of the lamp that are loosened in the previous process to lock it in place. Tighten the screw ① first, then screw ②.
6. Slide the lamp cover back in place and firmly fasten the screw of the lamp cover.
7. Turn the projector on and reset the lamp time using the LAMP TIME item in the OPTION menu.



(1) Press the MENU button to display a menu.
(2) Point at the “Go to Advanced Menu …” in the menu using the ▼/▲ button, then press the ► button.
(3) Point at the “OPTION” in the left column of the menu using the ▼/▲button, then press the ► button.
(4) Point at the “LAMP TIME” using the ▼/▲ button, then press the ► button. A dialog will appear.
(5) Press the ▲ button to select “RESET” on the dialog. It performs resetting the lamp time.

⚠**CAUTION** ►Do not touch any inner space of the projector, while the lamp is taken out.

NOTE • Please reset the lamp time only when you have replaced the lamp, for a suitable indication about the lamp.

Lamp warning

⚠ HIGH VOLTAGE ⚠ HIGH TEMPERATURE ⚠ HIGH PRESSURE

⚠**WARNING** ►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 it in a trash. Dispose of it in accordance with environmental laws.
- For lamp recycling, go to www.lamprecycle.org. (in the US)
- For product disposal, contact your local government agency or www.eiae.org (in the US) or www.epsc.ca (in Canada).

For more information, call your dealer.

Disconnect the plug from the power outlet	• 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, turn the projector off and unplug the power cord, 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. • Using the lamp for long periods of time, could cause it dark, not to light up or to burst. When the pictures appear dark, or when the color tone is poor, please replace the lamp as soon as possible. Do not use old (used) lamps; this is a cause of breakage.

Air filter

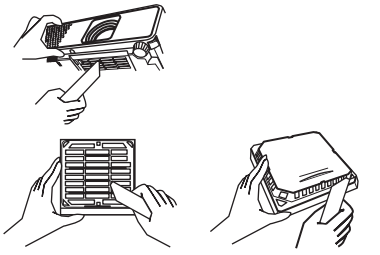
Please check and clean the air filter periodically. When the indicators or a message prompts you to clean the air filter, comply with it as soon as possible. Replace the air filter when it is damaged or too soiled. To prepare a new air filter, contact with your dealer and tell the air filter type number.

Type number : MU03602

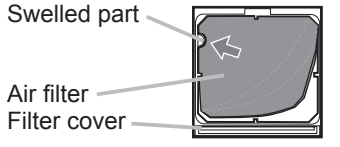
When you replace the projection lamp, please replace the air filter. An air filter of specified type will come together with a replacement lamp for this projector.

Cleaning the air filter

1. Turn the projector off, and unplug the power cord. Allow the projector to sufficiently cool down.
2. Use a vacuum cleaner on and around the filter cover.
3. While supporting the projector with one hand, use your other hand to pull the filter cover forward in the direction of the arrow.
4. Use a vacuum cleaner for the filter ventilation of the projector. And clean the air filter that is set at one side of the filter cover by using a vacuum cleaner over the other side of the filter cover. Please replace the air filter when it is damaged or too soiled. When the air filter is set, take its half moon shape cut part to the swelled part of the filter cover.
5. Put the filter unit back into the projector.
6. Turn the projector on and reset the filter time using the FILTER TIME item in the EASY MENU.



The air filter is set in the reverse side



(1) Press the MENU button to display a menu.
(2) Point at the “FILTER TIME” using the ▼/▲ button, then press the ► button. A dialog will appear.
(3) Press the ▲ button to select “RESET” on the dialog. It performs resetting the filter time.

⚠**WARNING** ►Before taking care of the air filter, make sure the power cable is not plugged in, then allow the projector to cool sufficiently.
►Use only the air filter of the specified type. Do not use the projector without the air filter or the filter cover. It could result in a fire or malfunction to the projector.
►Clean the air filter periodically. If the air filter becomes clogged by dust or the like, internal temperatures rise and could cause a fire, a burn or malfunction to the projector.

NOTE • Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter.
• The projector may display the message such as “CHECK THE AIR FLOW” or turn off the projector, to prevent the internal heat level rising.

Regulatory notices

WARNING:

In the US Declaration of Conformity

Trade name:	HITACHI
Model Number:	CPX3
Responsible Party:	Hitachi America, Ltd.
Address:	900 Hitachi way, Chula Vista, CA 91914-3556 U.S.A.
Telephone Number:	+1 -800-225-1741

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
In Canada **NOTICE:** This Class B digital apparatus complies with Canadian ICES-003.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

INSTRUCTIONS TO USERS:

In the US This equipment complies with the requirements of FCC (Federal Communication Commission) equipment provided that the following conditions are met.

Some cables have to be used with the core set. Use the accessory cable or a designated-type cable for the connection. For cables that have a core only at one end, connect the core to the projector.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Information for users applicable in European Union countries

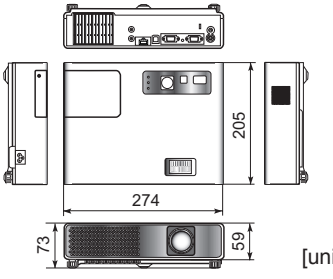
This symbol on the product or on its packaging means that your electrical and electronic equipment should be disposed at the end of life separately from your household wastes. There are separate collection systems for recycling in EU. For more information, please contact the local authority or the dealer where you purchased the product.

Warranty and after-service

If an abnormal operation (such as smoke, strange odor or excessive sound) should occur, stop using the projector immediately. Otherwise if a problem occurs with the projector, first refer to the “Troubleshooting” of the “Operating Guide” in the CD and run through the suggested checks. If this does not resolve the problem, please contact your dealer or service company. They will tell you what warranty condition is applied.

Specification

Item		Specification
Product name		Liquid crystal projector
Liquid Crystal Panel	Panel size	1.5cm (0.54 type)
	Drive system	TFT active matrix
	Pixels	1,024,000 pixels (1280 horizontal x 800 vertical)
Lens		Zoom lens F=1.7~1.9 f=19~23 mm
Lamp		190W UHP
Audio output		1 W x1
Power supply		AC100-120V/3.4A, AC220-240V/1.7A
Power consumption		310 W
Temperature range		5 ~ 35°C (Operating)
Size		274 (W) x 59 (H) x 205 (D) mm * Not including protruding parts. Please refer to the following figure.
Weight (mass)		approx. 1.7 kg
Ports		COMPUTER IN1 .....D-sub 15 pin mini x1 COMPUTER IN2 .....D-sub 15 pin mini x1 HDMI .....HDMI connector x1 S-VIDEO.....mini DIN 4 pin x1 VIDEO .....RCA x1 AUDIO IN..... Stereo mini x1 AUDIO OUT..... Stereo mini x1 USB .....USB-B x1
Optional parts		**Lamp**: 456-8783 **Air filter**: MU03602 **Others**: Please consult your dealer.



[unit : mm]

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