



DLP™ PROJECTOR MODEL

HC3800
User Manual
HDMI
HDMI
HGH-DEFINITION MULTIMEDIA INTERFACE



This User Manual is important to you. Please read it before using your projector.





CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NOTE:

SINCE THIS PROJECTOR IS PLUGGABLE EQUIPMENT, THE SOCKET-OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

WARNING

Use the attached specified power supply cord. If you use another power supply cord, it may cause interference with radio and television reception.

Use the attached RGB cable with this equipment so as to keep interference within the limits of an FCC Class B device.

This apparatus must be grounded.

DO NOT LOOK DIRECTLY INTO THE LENS WHEN THE PROJECTOR IS IN THE POWER ON MODE.

CAUTION

Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/ Data Processing Equipment, ANSI/NFPA 75.

When using the projector in Europe: COMPLIANCE NOTICE

This projector complies with the requirements of the EC Directive 2004/108/EC "EMC Directive" and 2006/95/EC "Low Voltage Directive".

The electro-magnetic susceptibility has been chosen at a level that gains proper operation in residential areas, on business and light industrial premises and on small-scale enterprises, inside as well as outside of the buildings. All places of operation are characterised by their connection to the public low voltage power supply system.

WARNING

Use the attached RGB cable with this equipment so as to keep interference within the limits of an EN55022 Class B device.

Please follow WARNING instructions.



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Note: This symbol mark is for EU countries only.

This symbol mark is according to the directive 2002/96/EC Article 10 Information for users and Annex IV, and/or to the directive 2006/66/EC Article 20 Information for end-users and Annex II.

Your MITSUBISHI ELECTRIC product is designed and manufactured with high quality materials and components which can be recycled and/or reused.

This symbol means that electrical and electronic equipment, batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste.

If a chemical symbol is printed beneath the symbol shown above, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows: Hg: mercury (0,0005%), Cd: cadmium (0,002%), Pb: lead (0,004%)

In the European Union there are separate collection systems for used electrical and electronic products, batteries and accumulators.

Please, dispose of this equipment, batteries and accumulators correctly at your local community waste collection/recycling centre.

Please, help us to conserve the environment we live in!

Declaration of Conformity

Model number: HC3800

Trade name: MITSUBISHI ELECTRIC

Responsible party: Mitsubishi Digital Electronics America, Inc.

9351 Jeronimo Road, Irvine, CA 92618 U.S.A

Telephone number: +1-(949) 465-6000

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.

Trademark, Registered trademark

DLP™, Digital Micromirror Device, DMD, and BrilliantColor™ are all trademarks of Texas Instruments.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Other brand or product names are trademarks or registered trademarks of their respective holders.



Important safeguards

Please read all these instructions regarding your projector and retain them for future reference. Follow all warnings and instructions marked on the projector.

1. Read instructions

All the safety and operating instructions should be read before the appliance is operated.

2. Retain instructions

The safety and operating instructions should be retained for future reference.

3. Warnings

All warnings on the appliance and in the operating instructions should be adhered to.

4. Instructions

All operating instructions must be followed.

5. Cleaning

Unplug this projector from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

6. Attachments and equipment

Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

7. Water and moisture

Do not use this projector near water or in contact with water.

8. Accessories

Do not place this projector on an unstable cart, stand, tripod, bracket or table. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the projector. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.



An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.

9. Ventilation

Slots and openings in the cabinet are provided for ventilation, ensuring reliable operation of the projector and to protect it from overheating. Do not block these openings or allow them to be blocked by placing the projector on a bed, sofa, rug, or bookcase. Ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.

10. Power sources

This projector should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your appliance dealer or local power company.

11. Power-cord protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and points where they exit from the appliance. Do not put the power cord under a carpet.

12.Overloading

Do not overload wall outlets and extension cords as this can result in a fire or electric shock.

13. Objects and liquids

Never push objects of any kind through openings of this projector as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector.

14.Servicing

Do not attempt to service this projector by yourself. Refer all servicing to qualified service personnel.

15. Damage requiring service

Unplug this projector from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- (a) If the power-supply cord or plug is damaged.
- (b) If liquid has been spilled, or objects have fallen into the projector.
- (c) If the projector does not operate normally after you follow the operating instructions. Adjust only those controls that are covered by the operating instructions. An improper adjustment of other controls may result in damage and may often require extensive work by a qualified technician to restore the projector to its normal operation.
- (d) If the projector has been exposed to rain or water.
- (e) If the projector has been dropped or the cabinet has been damaged.
- (f) If the projector exhibits a distinct change in performance this indicates a need for service.

16.Replacement parts

When replacement parts are required, be sure that the service technician has used replacement parts specified by the manufacturer or parts having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

17.Safety check

Upon completion of any service or repair to this projector, ask the service technician to perform safety checks determining that the projector is in a safe operating condition.

Important safeguards (continued)

WARNING:

Unplug immediately if there is something wrong with your projector.

Do not operate if smoke, strange noise or odor comes out of your projector. It might cause fire or electric shock. In this case, unplug immediately and contact your dealer.

Never remove the cabinet.

This projector contains high voltage circuitry. An inadvertent contact may result in an electric shock. Except as specifically explained in the User Manual do not attempt to service this product by yourself. Please contact your dealer when you want to fix, adjust or inspect the projector.

Do not modify this equipment.

It can lead to fire or electric shock.

Do not keep using the damaged projector.

If the projector is dropped and the cabinet is damaged, unplug the projector and contact your dealer for inspection. It may lead to fire if you keep using the damaged projector.

Do not face the projection lens to the sun.

It can lead to fire.

Use correct voltage.

If you use incorrect voltage, it can lead to fire.

Do not place the projector on uneven surface.

Place the projector on a leveled and stable surface only. Please do not place equipment on unstable surfaces.

Do not look into the lens when the projector is operating.

It may hurt your eyes. Never let children look into the lens when it is on.

Do not unplug the power cord during operation.

It can lead to lamp breakage, fire, electric shock or other trouble. It is best to wait for the fan to turn off before turning the main power off.

Do not touch the air outlet grille and bottom plate, which become hot.

Do not touch them or put other equipment close to the air outlet grilles because they become hot during operation. The heated air outlet grilles and bottom plate may cause injury or damage to other equipment. Also, do not put the projector on a desk that is easily affected by heat.

Do not look into the air outlet grille when projector is operating.

Heat, dust, etc. may blow out of it and hurt your eyes.

Do not block the air inlet and outlet grilles.

If they are blocked, heat may be generated inside the projector, causing deterioration in the projector quality and fire.

Do not use flammable solvents (benzene, thinner, etc.) and flammable aerosols near the projector.

Flammable substances may ignite causing fire or breakdown because the temperature inside the projector rises very high while the lamp is illuminating.

Do not use the projector with condensation on it. It can lead to breakdown or other failure.

Place of installation

For safety's sake, refrain from setting the projector at any place subjected to high temperature and high humidity. Please maintain an operating temperature, humidity, and altitude as specified below.

- Operating temperature: between +41°F (+5°C) and +95°F (+35°C)
- Operating humidity: between 30% and 90%
- Never put any heat-producing device under the projector so that the projector does not overheat.
- Do not install the projector to a place that is unstable or subjected to vibration.
- Do not install the projector near any equipment that produces a strong magnetic field.
 Also refrain from installing the projector near any cable carrying a large amount of current.
- Place the projector on a solid, vibration free surface; otherwise it may fall, causing serious injury or damage.
- Do not stand the projector on its end. It may fall, causing serious injury or damage.
- Slanting the projector more than ±10°(right and left) or ±15°(front and rear) may cause trouble or explosion of the lamp.
- Do not place the projector near air-conditioning unit, heater, or humidifier to avoid hot or moist air to the exhaust and ventilation hole of the projector.

COMPLIANCE NOTICE OF FCC

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. 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.

Changes or modifications not expressly approved by Mitsubishi could void the user's authority to operate this equipment.

COMPLIANCE NOTICE OF INDUSTRY CANADA

This Class B digital apparatus complies with Canadian ICES-003.

Preparing your projector

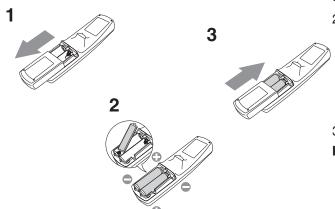
What's included in the box

AC power cord for US J2552-0063-03 for EU J2552-0066-02 for UK J2552-0065-02 1 Safety Manual/Quick Start up (English only) 1 Safety Manual/Quick Start up (English only) 2 Battery 1 Lens cap 1 Lamp replacement attachment

Important:

The attached power cords are to be used exclusively for this product. Never use them for other products.

Inserting the batteries into the remote control



- 1. Remove the back lid of the remote control.
- 2. Check the polarity (+), (-) of the batteries, and set them correctly, inserting their (-) side first.
 - If the battery is inserted from the (+) side first, inserting
 the (-) side is difficult because the coil spring end hits
 on the battery side. If the battery is forced in this way,
 the outer label of the battery may get ripped and it may
 cause a short-circuit and heating.
- 3. Attach the back lid.

Important:

- Use two size-AA batteries (R6).
- Replace the two batteries with new ones when the remote control is slow to respond.

Removing the batteries from the remote control

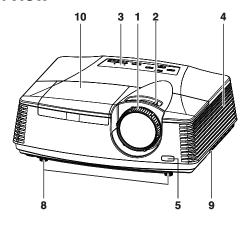
Remove the back lid of the remote control and take out the batteries.

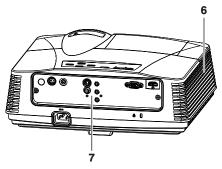
Caution:

- Use of a battery of wrong type may cause explosion.
- Only Carbon-Zinc or Alkaline-Manganese Dioxide type batteries should be used.
- Dispose of used batteries according to your local regulations.
- Batteries may explode if misused. Do not recharge, disassemble, or throw them in fire.
- Be sure to handle the batteries according to the instructions.
- Load the batteries with its positive (+) and negative (-) sides correctly oriented as indicated on the remote control.
- Keep batteries out of reach of children and pets.
- Remove the batteries, if the remote control is not used for a long time.
- Do not combine a new battery with an old one.
- If the solution of batteries comes in contact with your skin or clothes, rinse with water. If the solution comes in contact with your eyes, rinse them with water and then consult your doctor.

Preparing your projector (continued)

Overview



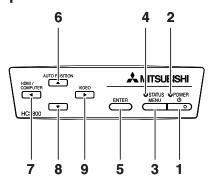


- 1 FOCUS ring
- 2 ZOOM ring
- 3 Control panel
- 4 Air inlet grille
- 5 Remote control sensor (Front)
- 6 Air outlet grille
- 7 Terminal board
- 8 Adjustment feet
- 9 Lock bar
- 10 Lamp cover

Caution:

Do not replace the lamp immediately after using the projector because the lamp would be extremely hot and it may cause burns.

Control panel

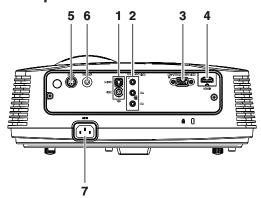


- 1 Power button
- 2 POWER indicator
- 3 MENU button
- 4 STATUS indicator
- 5 ENTER button
- 6 AUTO POSITION / ▲ button
- 7 HDMI / COMPUTER / ◀ button
- 8 ▼ button
- 9 VIDEO/ ▶ button

Important:

 While the menu or the screen for the keystone adjustment or password entry is being displayed, the HDMI / COMPUTER, VIDEO, and AUTO POSITION buttons function as the ◀, ▶, and ▲ buttons respectively.

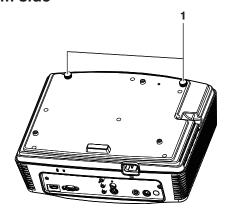
Terminal panel



- 1 VIDEO IN and S-VIDEO IN terminals
- 2 COMPONENT VIDEO IN terminals
- 3 COMPUTER IN/COMPONENT VIDEO IN terminal (Mini D-SUB 15-pin)
- 4 HDMI IN terminal (HDMI 19-pin)
- 5 SERIAL terminal (Mini DIN 8-pin)
 - Used for projector control by computer. Contact your dealer for details.
- 6 TRIGGER terminal
 - Used for the optional electric screen.
- 7 Power jack

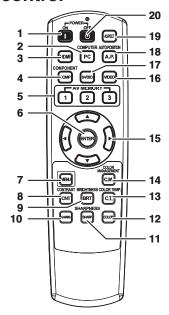
Preparing your projector (continued)

Bottom side



1 Adjustment feet

Remote control



- 1 ON(I) button
- 2 COMPUTER button
- 3 HDMI button
- 4 COMPONENT button
- 5 AV MEMORY buttons
- 6 ENTER button
- 7 MENU button
- 8 CONTRAST button*
- 9 BRIGHTNESS button*
- 10 GAMMA button*
- 11 SHARPNESS button*
- 12 COLOR button*
- 13 COLOR TEMP. button*
- 14 COLOR MANAGEMENT button
- 15 **▲**, **▼**, **◄**, **▶** buttons
- 16 VIDEO button
- 17 S-VIDEO button
- **18 AUTO POSITION button**
- 19 ASPECT button
- 20 OFF (🖰) button

Important:

When you press any button on the remote control, the buttons on the remote control are lit. Wait approx. 6 seconds after releasing the button to turn them off.

Using the picture quality adjusting buttons

When you press any of the picture quality adjusting buttons, the screen for adjusting the picture quality appears. Adjust the picture quality by pressing the ◀ and ▶ buttons. The picture quality adjustment can be made alternatively in the IMAGE menu. (See page 26.) Items in the menus are shown in parentheses below.

CONTRAST (CONTRAST)..... Adjusts the contrast of the projected image.

BRIGHTNESS (BRIGHTNESS) Adjusts the brightness of the projected image.

COLOR TEMP. (COLOR TEMP.) Selects one of the preset color temperatures. Adjustment of USER mode is also

available. (See page 32.)

GAMMA (GAMMA MODE) Selects one of the preset gamma mode. Adjustment of USER mode is also

available. (See page 33.)

SHARPNESS (SHARPNESS)....... Adjusts the sharpness of the projected image.

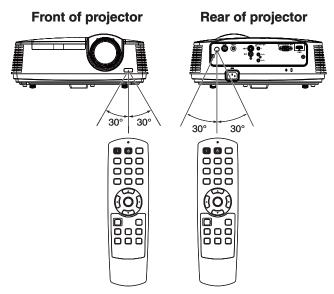
COLOR (COLOR)...... Adjusts the color thickness of the projected image.

^{*:} See below for the picture quality adjusting buttons.



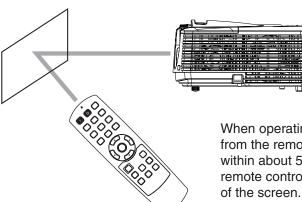
Using the remote control

Operational range of the remote control



Operate the remote control within a distance of 10 m (30 feet) from the projector, pointing the IR beam at the remote control photo-sensor (front or rear) of the projector.

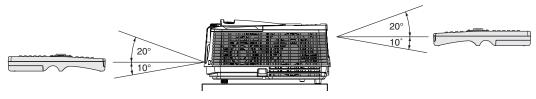
- Keep the remote control photo-sensor out of direct sunlight or fluorescent lamp light.
- Keep the remote control photo-sensor at least 2 m (6 feet) away from fluorescent lamps. Otherwise, the remote control may malfunction.
- If there is an inverter-operated fluorescent lamp near the remote control, the remote control operation may become unstable
- When you use the remote control too close to the remote control sensor, the remote control may not work correctly.



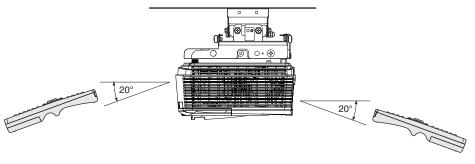
When operating the remote control, keep the distance from the remote control to the projector via the screen within about 5 m (15 feet). The operable range of the remote control, however, depends on the characteristics of the screen

Reception angle

Vertical directions



Vertical directions (ceiling mount)



EN-9

Setting up your projector

Setting up the screen

Install the screen perpendicularly to the projector. If the screen can not be installed in such a way, adjust the projection angle of the projector. (See page 12.)

- Install the screen and projector so that the projector's lens is placed at the same height and horizontal position of the screen center.
- Do not install the screen where it is exposed to direct sunlight or lighting. Light directly reflecting on the screen makes the projected images washed-out and hard to view.

SCREEN SIZE

You can keep the image display area within the screen by setting SCREEN SIZE in the ADVANCED MENU of IMAGE menu according to the aspect ratio of the actual screen. Select 16:9 when the aspect ratio of the screen is 16:9 or 4:3, and select CINEMA SCOPE (2.35:1) when the aspect ratio is 2.35:1 (CinemaScope).

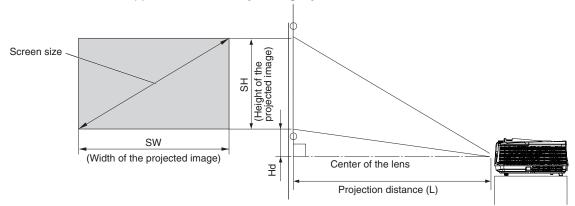
When setting SCREEN SIZE to CINEMA SCOPE (2.35:1):

- CinemaScope size movies are projected in the full screen.
- Set ASPECT in the FEATURE menu to 16:9 when displaying Vista-size images. In this case, they are squeezed horizontally.
- When ASPECT in the FEATURE menu is set to AUTO and 480i/p, 576i/p, 720p, or 1080i/p signal is input, the part
 for displaying subtitles is not projected. To display subtitles, reset SCREEN SIZE to 16:9 and adjust the image
 position using VERTICAL LOCATION in the ADVANCED MENU of the IMAGE menu. (To display the menu on the
 screen, adjust SHUTTER(U) in the SIGNAL USER menu to position the menu.)

Screen size and projection distance

Refer to the following tables to determine the screen size and projection distance.

The figures in the tables are approximate and may be slightly different from the actual measurements.



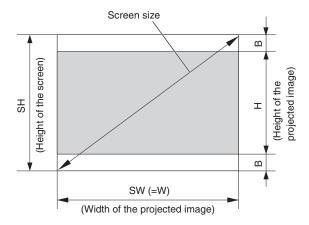
When the aspect ratio of the screen is 16:9

		Scree	n size			Pro	jection o	(L)	Hd		
Diagor	nal size	Heigh	t (SH)	Width (SW)		SW) Shortest (Wide)		Longest (Tele)] ""	
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm
50	127	25	62	44	111	59	1.5	89	2.3	8.2	21
60	152	29	75	52	133	71	1.8	107	2.7	9.9	25
70	178	34	87	61	155	84	2.1	125	3.2	11.5	29
80	203	39	100	70	177	96	2.4	144	3.6	13.2	34
90	229	44	112	78	199	108	2.7	162	4.1	14.8	38
100	254	49	125	87	221	120	3.1	180	4.6	16.5	42
110	279	54	137	96	244	133	3.4	198	5.0	18.1	46
120	305	59	149	105	266	145	3.7	216	5.5	19.8	50
150	381	74	187	131	332	182	4.6	271	6.9	24.7	63
200	508	98	249	174	443	243	6.2	362	9.2	33.0	84
250	635	123	311	218	553	304	7.7	453	11.5	41.2	105
300	762	147	374	261	664	365	9.3	-	-	49.5	126

- Projection distance changes according to the setting of SCREEN SIZE in the ADVANCED MENU in the IMAGE menu. The table above is in the
 case of "16:9."
- Depending on the installation conditions, warm air that is emitted from the exhaust vents may flow into the intake
 vent, causing the projector to display "TEMPERATURE!!" and then stop projecting images.



Screen size and projection distance (continued)



When the aspect ratio of the screen is 4:3

When the aspect ratio of the screen is 4:3, the positional relation between the projected image and the screen is as shown on the right. Refer to the following table for installation.

When the aspect ratio of the image is 16:9

	Screen size (4:3)					Size of the projected image (16:9)			Black space Projection distance (L)			(L)	Hd				
Diagor	nal size	Heigh	t (SH)	Width	(SW)	Heigl	nt (H)	Widtl	า (W)	(E	3)	Shortes	t (Wide)	Longes	t (Tele)] "	iu
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm
50	127	30	76	40	102	23	57	40	102	3.8	10	54	1.4	82	2.1	7.6	19
60	152	36	91	48	122	27	69	48	122	4.5	11	65	1.7	98	2.5	9.1	23
70	178	42	107	56	142	32	80	56	142	5.3	13	77	1.9	115	2.9	10.6	27
80	203	48	122	64	163	36	91	64	163	6.0	15	88	2.2	132	3.3	12.1	31
90	229	54	137	72	183	41	103	72	183	6.8	17	99	2.5	148	3.8	13.6	35
100	254	60	152	80	203	45	114	80	203	7.5	19	110	2.8	165	4.2	15.1	38
110	279	66	168	88	224	50	126	88	224	8.3	21	122	3.1	182	4.6	16.7	42
120	305	72	183	96	244	54	137	96	244	9.0	23	133	3.4	199	5.0	18.2	46
150	381	90	229	120	305	68	171	120	305	11.3	29	166	4.2	249	6.3	22.7	58
200	508	120	305	160	406	90	229	160	406	15.0	38	223	5.7	332	8.4	30.3	77
250	635	150	381	200	508	113	286	200	508	18.8	48	279	7.1	416	10.6	37.8	96
300	762	180	457	240	610	135	343	240	610	22.5	57	335	8.5	-	-	45.4	115

Projection distance changes according to the setting of SCREEN SIZE in the ADVANCED MENU in the IMAGE menu. The table above is in the case of "16:9."

When the aspect ratio of the screen is 2.35:1 (CinemaScope)

		Pro	jection o	(L)		Id					
Diagor	nal size	Heigh	t (SH)	Width (SW)		Shortest (Wide)) Longest (Tele)		Hd	
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm
100	254	39	99	92	234	127	3.2	190	4.8	23.7	60
110	279	43	109	101	257	140	3.6	209	5.3	26.1	66
120	305	47	119	110	281	153	3.9	229	5.8	28.5	72
130	330	51	129	120	304	166	4.2	248	6.3	30.9	78
140	356	55	139	129	327	179	4.5	267	6.8	33.2	84
150	381	59	149	138	351	192	4.9	286	7.3	35.6	90
160	406	63	159	147	374	205	5.2	305	7.8	38.0	96
170	432	66	169	156	397	218	5.5	325	8.2	40.4	103
180	457	70	179	166	421	231	5.9	344	8.7	42.7	109
190	483	74	189	175	444	244	6.2	363	9.2	45.1	115
200	508	78	199	184	468	256	6.5	382	9.7	47.5	121

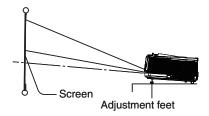
Projection distance changes according to the setting of SCREEN SIZE in the ADVANCED MENU in the IMAGE menu. The table above is in the case of "CINEMA SCOPE (2.35:1)."

Setting up your projector (continued)

Correcting skewed or distorted image

For the best projection, project images on a flat screen installed at 90 degrees to the floor. If necessary, tilt the projector using the two adjustment feet on the bottom of the projector.

- 1. Tilt up the projector to the appropriate angle.
- 2. Rotate the adjustment feet for fine adjustment.



Important:

Don't transport the projector with its adjustment feet extended. Otherwise the adjustment feet may be damaged.

When fine streaks are seen on projected images

This is due to interference with the screen surface and is not a malfunction. Replace the screen or displace the focus a little. (See page 18 or 23 for focus adjustment.)

When projected images are distorted to a trapezoid

When the screen and the projector are not placed perpendicularly to each other, projected images become trapezoidal. If you cannot make the projector and the screen perpendicular to each other by mechanical adjustments, adjust keystone.

With the INSTALLATION menu:

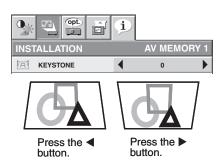
(See page 26 for menu setting.)

- 1. Display the INSTALLATION menu.
- Select KEYSTONE by pressing the ▲ or ▼ button.
- Equalize the widths at the top and bottom of the screen by pressing the

 or ▶ button, viewing the screen.

To cancel the menu:

4. Press the MENU button several times.

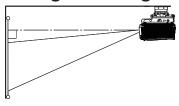


- When the keystone adjustment is carried out, the adjustment value is indicated. Note that this value doesn't mean a
 projection angle.
- The allowable range of the adjustment value in the keystone adjustment varies depending on the installation condition, Input signal and aspect settings in MENU.
- When the keystone adjustment takes effect, the resolution decreases. In addition, stripes may appear or straight lines may bend in images with complicated patterns. They are not due to product malfunctions.
- When the keystone adjustment is carried out, the image may not be displayed correctly because of the type of input signal.
- When the keystone adjustment is performed, the displayed image may be distorted.
- Depending on the installation conditions of the projector and the screen, a perfect rectangular image and the proper aspect ratio may not be obtained.

Setting up your projector (continued)

Front projection, ceiling mounting

For ceiling mounting, you need the ceiling mount kit designed for this projector. Ask a specialist for installation. For details, consult your dealer.

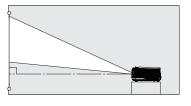


- The warranty on this projector does not cover any damage caused by use of any non-recommended ceiling mount kit or installation of the ceiling mount kit in an improper location.
- When using the projector mounted on the ceiling, set IMAGE REVERSE in the INSTALLATION menu to MIRROR INVERT. See page 27.
- When the projector is mounted on the ceiling, images may appear darker than those projected in the case of tabletop mounting. This isn't a product malfunction.
- Ask your installation specialist to provide an A/C power switch. When you do not use the projector, be sure to shut down the main power by the switch.
- Do not install the projector where the exhaust vents are exposed to air emitted by an air conditioning.
 Such installation may cause a breakdown.
- Do not install the projector near a fire alarm because it emits hot air from its exhaust vents.

Rear projection

Ask a specialist for installation. For details, consult your dealer.

 For rear projection, set IMAGE
 REVERSE in the INSTALLATION
 menu to MIRROR. See page 27.



Caution:

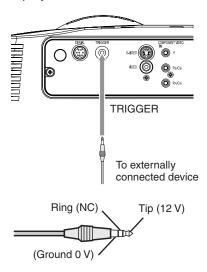
- Placing the projector directly on a carpet impairs ventilation by the fans, causing damage or failure.
 Put a hard board under the projector to facilitate ventilation.
- Place the projector at least 50 cm (or 20 inch) away from the wall to prevent the air inlet grille and the air outlet grilles that emit hot air from being blocked.
- Do not use the projector in the following locations and manners, which may cause fire or electric shock.
 - In a dusty or humid place.
 - In a sideways position, or with the lens facing down.
 - Near a heater.
 - In an oily, smoky, or damp place such as a kitchen.
 - In direct sunlight.
 - Where the temperature rises high, such as in a closed car.
 - Where the temperature is lower than +41°F (or +5°C) or higher than +95°F (or +35°C).

Important:

- Do not apply force to the lens, because the lens may be damaged.
- Be sure to use this projector at an altitude of less than 1500 meters.

TRIGGER terminal

The TRIGGER terminal on the rear of the projector is a terminal that outputs a 12 V signal to control an externally connected device (electric screen) when images are projected.



To use the TRIGGER terminal, set TRIGGER OUT to SCREEN or ANAMORPHIC in the INSTALLATION menu. (The factory default is OFF. See page 27 for details.) Use the following steps to change the setting.

With the INSTALLATION menu:

(See page 26 for menu setting.)

- 1. Display the INSTALLATION menu.
- Select TRIGGER OUT by pressing the ▲ or ▼ button.
- 3. Select SCREEN or ANAMORPHIC by pressing the

 ✓ or

 button.

To cancel the menu:

4. Press the MENU button.

Caution:

- Do not use the signal output from the TRIGGER terminal as a power for other devices.
- Do not link the TRIGGER terminal with an audio terminal of other device because that device may be damaged.
- The rated current for the TRIGGER terminal is 200 mA. If you use a current exceeding this rating, a failure may occur.
- For information about electric screens, please contact screen manufacturers.

Viewing video images

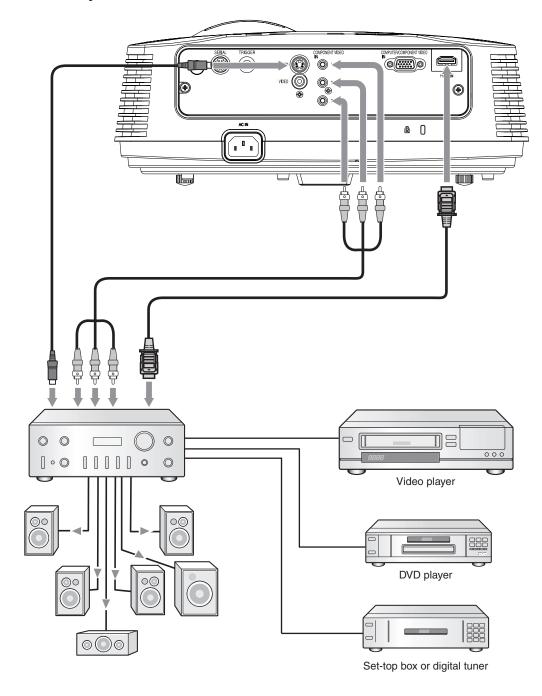
A. Connecting the projector to video equipment

- When the projector and the connected devices are located too close to each other, the projected image may be affected by their interference.
- See the owner's guide of each device for details about its connections.

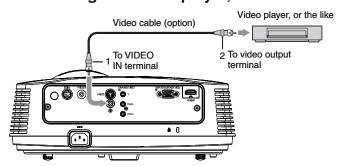
Preparation:

Make sure that the power of the projector and that of the video equipment are turned off.

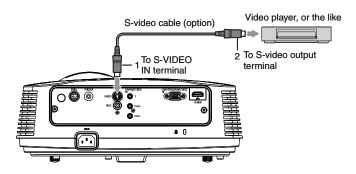
Basic home theater system connection



Connecting to a video player, etc.



- 1. Connect one end of the optional video cable to the VIDEO IN terminal of the projector.
- 2. Connect the other end of the video cable to the video output terminal of the video equipment.



When the video equipment is equipped with the S-video output terminal, make the connection as follows:

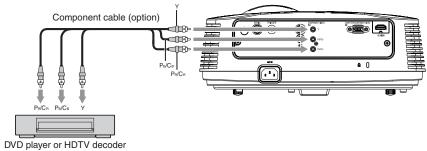
- Connect one end of the optional S-video cable to the S-VIDEO IN terminal of the projector.
- 2. Connect the other end of the S-video cable to the S-video output terminal of the video equipment.
- Also read the instruction manual of the equipment to be connected.
- Contact your dealer for details of connection.

When a TV tuner or VCR is connected:

When you use this projector with a TV tuner or VCR connected, no image may appear or a message of NO SIGNAL may appear on the screen when you change the channel via any channel that is not being received. In such a case, set the channels of the TV tuner or VCR again. To avoid such symptom, use the TV tuner or VCR with its channel skip function (that is a function not to display channels that are not being received) enabled.

Connecting to a DVD player or HDTV decoder

To connect this projector to video equipment that has component video output terminals, such as a DVD player, use the COMPONENT VIDEO IN terminals.



- The terminal's names Y, P_B, and P_R are given as examples of when a HDTV decoder is connected.
- The terminal's names vary depending on the connected devices.
- Images may not be projected correctly depending on the type of the DVD player you use.
- Though it may take some time before an image is displayed on the screen depending on the type of the input signal, such symptom is not a malfunction.
- When connecting a HDTV decoder having RGB output terminals, set COMPUTER INPUT to RGB in the SIGNAL menu.

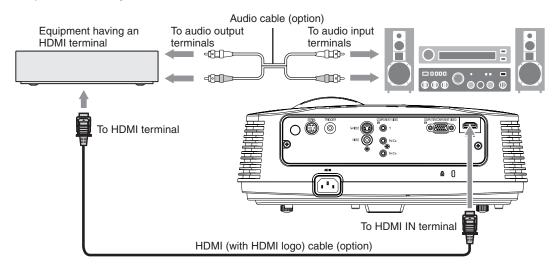
Connecting to video equipment having a HDMI terminal

You can project high-quality images by connecting the HDMI IN terminal of this projector to video equipment having a HDMI output terminal. In addition, this projector supports HDCP and is able to receive encrypted digital video data that are output from DVD players.

- Select HDMI as the input source.
- HDCP (High-bandwidth Digital Content Protection), developed by Intel Corporation, is a method to encrypt digital video data for the purpose of copy protection.
- HDMI (High-Definition Multimedia Interface) is fully backward compatible with computers, displays and consumer
 electronics devices incorporating the DVI standards.
- This projector can be linked with video devices equipped with HDMI output terminal. However, with some of them, this projector may not display any image or not operate correctly.
- If this projector doesn't display any image or not operate correctly, see the operation manual of the video device for its connection.
- When you use the video equipment other than HDMI conformity product, the image may not be projected properly.
- Use of a long cable may decrease the quality of projected images.

Connection (for video equipment having an HDMI terminal)

- Use a commercially available HDMI (with HDMI logo) cable.
- Some cables may not be connected correctly depending on the size and shape of their connectors.
- To connect to the video device using a splitter, make sure to use the splitter compliant with the HDMI 1.3 Deep Color Standard. If you use the splitter not compliant with the HDMI 1.3 standard, this projector may not display any image or not operate correctly.



When you connect this projector and a Digital device (such as a DVD player) via the HDMI terminal, black color may appear dark and deep, depending on the type of the connected device.

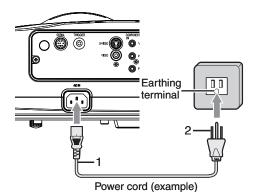
- This depends on the black level setting of the connected device. There are two kinds of methods to digitally transfer image data, in which different black level settings are employed respectively. Therefore, the specifications of the signals output from DVD players differ, depending on the type of the digital data transfer method they use.
- Some DVD players are provided with a function to switch the methods to output digital signals. When your DVD player is provided with such function, set it as follows.

EXPAND or ENHANCED → NORMAL

- See the users guide of your DVD player for details.
- Set INPUT LEVEL of ADVANCED MENU in the IMAGE menu depending on the device to be used.

B. Plugging in the power cord

• In order to ensure the safety in case of trouble with the projector, use an electrical outlet having an earth leakage breaker to supply the power to the projector. If you do not have such outlet, ask your dealer to install it.



- 1. Plug the attached power cord into the power cord inlet of this projector.
- 2. Plug the other end of the power cord into a power outlet.

- The power cords for use in the U.S. and Europe are included with this projector. Use the appropriate one for your country.
- This projector uses the power plug of three-pin grounding type. Do not take away the grounding pin from the power plug. If the power plug doesn't fit your wall outlet, ask an electrician to change the wall outlet.
- The provided power cord for the U.S. is rated at 120 V. Never connect this cord to any outlet or power supply using
 other voltages or frequencies than rated. If you use a power supply using other voltage than rated, prepare an
 appropriate power cord separately.
- Use 100-240 V AC 50/60 Hz to prevent fire or electric shock.
- Do not place any objects on the power cord or do not place the projector near heat sources to prevent damage to the power cord. If the power cord should be damaged, contact your dealer for replacement because it may cause fire or electric shock.
- Do not modify or alter the power cord. If the power cord is modified or altered, it may cause fire or electric shock.

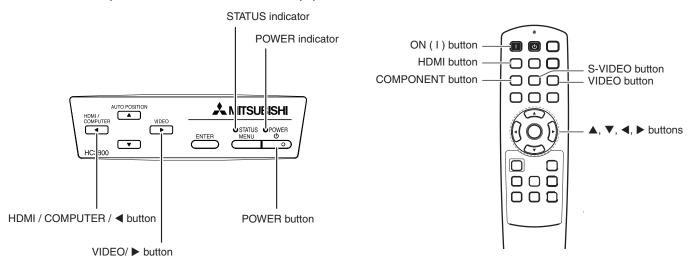
Caution:

- Plug in the power cord firmly. When unplugging, hold and pull the power plug, not the power cord.
- Do not plug in or out the power cord with your hand wet. It may cause electric shock.

C. Projecting images

Preparation:

- Remove the lens cap.
- Turn on the power of the connected video equipment.

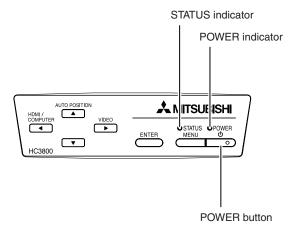


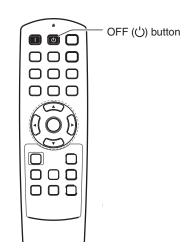
- 1. Confirm the POWER indicator lights-up red.
 - If the projector was turned off before the lamp had cooled down sufficiently, the fan may start rotating and the POWER button may not work after the power cord is plugged. (The STATUS indicator blinks green.) After the fan stops rotating, press the POWER button to turn back on the POWER indicator.
- 2. Press the POWER button on the projector or ON (I) button on the remote control.
 - It may take about one minute for the lamp to light up.
 - The lamp fails to light up on rare occasions. In such a case, wait for a few minutes and then try again.
 - Do not cover the lens with the lens cap while the lamp is on.
 - After the POWER button is pressed, the image may flicker before the lamp becomes stable. This is not a product malfunction.
 - The STANDARD lamp mode is activated by default whenever the projector is turned on. When the LOW LAMP MODE has been chosen, the default STANDARD lamp mode is switched to the LOW lamp mode in 1 minute.
 - The projector starts warming up when the POWER button is pressed. During the warm-up process, images may appear dark and no commands are accepted.
 - By blinking red, the STATUS indicator indicates that the lamp should be replaced soon. Replace the lamp when the STATUS indicator blinks red. (See page 44.)
- 3. Adjust the focus by turning the focus ring.
- 4. Select an input source.
 - Press the VIDEO or HDMI/COMPUTER button on the projector or the VIDEO, S-VIDEO, COMPONENT or HDMI button on the remote control that is corresponding to the terminal in use.
 - The input source is switched between VIDEO, S-VIDEO and COMPONENT every time you press the VIDEO button on the projector.
 - The input source is switched between COMPUTER and HDMI every time you press the HDMI/COMPUTER button on the projector.
 - The projector automatically selects the appropriate signal format. (The selected signal format is displayed on the INFORMATION menu.)
 - You cannot change the input source while the menu is being displayed.
 - Though it may take some time before an image is displayed on the screen depending on the type of the input signal, such symptom is not a malfunction.
 - Some images become easier to view when the setting of aspect ratio is changed. (See page 20.)
 - When this projector is connected with an HDMI device supporting HDCP, such as a DVD player, image is not
 displayed correctly at the time of switching the input source on rare occasions. In such cases, switch to other
 input source and then switch back to the HDMI input source.
 - When COMPONENT is chosen as the source, images supplied from the computer may flicker. Press the ◀ or ▶ button on the remote control to reduce flicker, if it occurs. (Fine adjustment)
- 5. Adjust the position of the projector to keep an appropriate projection distance with which images are projected in their specified sizes.



- 6. Adjust the position of the projector so that the projector and the screen are perpendicular to each other. (See page 10.)
 - When the projector cannot be positioned perpendicularly to the screen, adjust the projection angle. (See page 12.)
- 7. Adjust the image size by turning the zoom ring.
 - If necessary, adjust the focus and zoom again.

To stop projecting:





- 8. Press the POWER button on the projector or the OFF (()) button on the remote control.
 - A confirmation message is displayed.
 - To cancel the procedure, leave the projector for a while or press the MENU button.
- 9. Press the POWER button on the projector or the OFF ((1)) button on the remote control again.
 - The lamp goes out and the projector goes into a standby mode. In this standby mode, the STATUS indicator blinks green.
- 10. Wait about 90 seconds.
 - During this period of 90 seconds in the standby mode, the intake fan and exhaust fan rotate to cool the lamp.
 - The lamp can't be lit again for 1 minute after turning off the projector for safety purpose. It will take another 1
 minute for the STATUS indicator to go out. If you want to turn on the projector again, wait until the indicator goes
 out, and then press the POWER button.
 - The air outlet fans rotate faster as the temperature around the projector rises.
 - Do not unplug the power cord while the STATUS indicator is blinking. Unplugging the power cord immediately after use may cause a lamp breakdown.
 - Though the fan makes loud sound during cooling, such symptom is not a malfunction.
- 11. Unplug the power cord from the outlet.
 - · The POWER indicator will go out.
 - If the power cord should be unplugged accidentally while either the air inlet fan or the air outlet fans are
 operating or the lamp is on, allow the projector to cool down for 10 minutes with the power off. To light the lamp
 again, press the POWER button. If the lamp doesn't light up immediately, repeat pressing the POWER button
 two or three times. If it should still fail to light up, replace the lamp.
 - Cover the lens with the lens cap to protect it from dust.



Setting the aspect ratio

You can change the aspect ratio of the input video signal (or the ratio of width to height of the image). Change the setting according to the type of the input video signal.

ŭ	,		· ·			Sign	ai size /////	1: image area
	Setting	4:3	16:9	ZOOM1	ZOOM2	STRETCH		ANAMORPHIC2
Original image s	ize	Aspect ratio changes depending on the input signal.	Squeezed image is expanded to 16:9.	CinemaScope image is enlarged and displayed together with subtitles.	Vista image is enlarged and displayed together with subtitles.	Image is enlarged to 16:9 while the center aspect ratio remains unchanged.	This mode is suitable for viewing 2.35:1-size images using the anamorphic lens.	This mode is suitable for viewing 16:9- or 4:3-size images or images input from personal computers using the anamorphic lens.
4:3 image (480i, 576i, 480p, 576p, and PC)	000		000			000		480i, 576i, 480p, 576p
Squeezed 4:3 (480i, 576i, 480p, 576p)	$\begin{bmatrix} \circ & \circ \\ \circ & \circ \end{bmatrix}$							
4:3 CinemaScope (480i, 576i, 480p, 576p)	Sub Title	Sub Title	Sub Title	Sub Title		Sub Title		Sub Title
4:3 Vista image (480i, 576i, 480p, 576p)	808	802						808
16:9 image (720p, 1080i, 1080p)								
2.35:1 image	0 0 0							

- Bold frames are recommended modes.
- When ASPECT is set to AUTO, an optimum aspect ratio is automatically selected depending on the input signal.
- When ASPECT is set to ZOOM1, ZOOM2 or ANAMORPHIC1, display position can be changed with ▲ or ▼ button
 on the remote control.
- OVER SCAN in the SIGNAL menu is not available in the STRETCH mode.
- Display pattern changes according to the setting of SCREEN SIZE in the IMAGE menu. The table above is in the case of "16:9."
- This projector is equipped with a function to change the aspect ratio. If you select an aspect ratio that is inconsistent with that of the input signal, images around the screen edges may be hidden or deformed. When viewing original video works reflecting the authors' intentions, you are recommended to keep their aspect ratios unchanged.
- It may be an infringement of the rights protected by the copyright law to project images compressed or enlarged
 by changing the aspect ratio in public areas, such as inside and outside shops and hotels, for commercial or public
 viewing purposes.
- When SCREEN SIZE of ADVANCED MENU is set to CINEMA SCOPE(2.35:1) in the IMAGE menu, STRETCH, ANAMORPHIC1 and ANAMORPHIC2 cannot be selected for ASPECT.

How to change the settings:

With the remote control:

- 1. Press the ASPECT button.
 - Every time the ASPECT button is pressed, the aspect mode changes from AUTO to 4:3, 16:9, to ZOOM1, to ZOOM2, to STRETCH, to ANAMORPHIC1, to ANAMORPHIC2, and back to AUTO.
 - Some modes are not available with certain signals.

With the FEATURE menu:

(See page 26 for menu setting.)

- 1. Display the FEATURE menu.
- 2. Select ASPECT by pressing the ▲ or ▼ button.
- 3. Select your desired aspect ratio by pressing the ◀ or ▶ button.

To cancel the menu:

4. Press the MENU button.

Important:

• When a 4:3 or 2.35:1 (CinemaScope) image is kept displayed for a long time before displaying 16:9 image, the afterimages of the black bars may appear on the 16:9 image screen. (See page 41.)

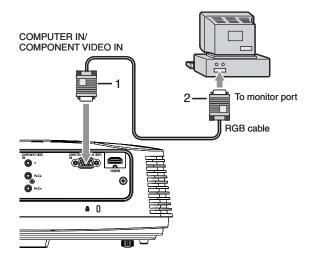


Viewing computer images

A. Connecting the projector to a computer

Preparation:

- Make sure that the power of the projector and that of the computer are turned off.
- When connecting the projector to a desktop computer, disconnect the RGB cables that are connected to the monitor.



- Connect one end of the supplied RGB cable to the COMPUTER IN/COMPONENT VIDEO IN terminal of the projector.
- 2. Connect the other end of the RGB cable to the monitor port of the computer.
- Additional devices, such as a conversion connector and an analog RGB output adapter, are required depending on the type of the computer to be connected.
- When viewing images supplied from an analog-connected computer, press the COMPUTER button on the remote control.
- Turn on the power of the projector before that of the computer.
- Additional devices, such as a conversion connector and an analog RGB output adapter, are required depending on the type of the computer to be connected.
- Use of a long cable may decrease the quality of projected images.
- Also read the instruction manual of the equipment to be connected.
- Images may not be projected correctly, depending on the type of the computer connected.
- Contact your dealer for details of connection.

About DDC

The COMPUTER IN/COMPONENT VIDEO IN terminal of this projector complies with the DDC1/2B standard and the HDMI IN terminal comply with the DDC2B standard. When a computer supporting this standard is connected to this terminal, the computer will automatically load the information from this projector and prepare for output of appropriate images.

 After connecting a computer supporting this standard to this terminal, plug the power cord of the projector in the wall outlet first, and then boot up the computer.

B. Plugging the power cord

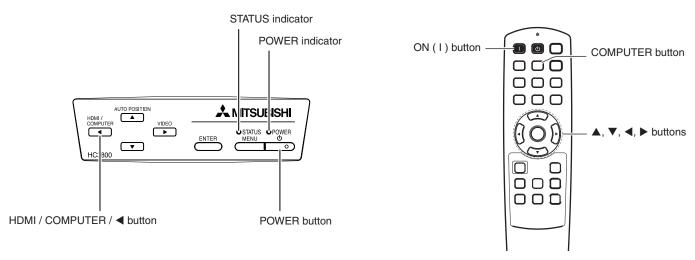
Plug the power cord in the same way as described in "Viewing video images." (See page 17.)

Viewing computer images (continued)

C. Projecting images

Preparation:

- Remove the lens cap.
- Turn on the power of the connected computer.



- 1. Confirm the POWER indicator lights-up red.
 - If the projector was turned off before the lamp had cooled down sufficiently, the fan may start rotating and the POWER button may not work after the power cord is plugged. (The STATUS indicator blinks green.) After the fan stops rotating, press the power button to turn back on the POWER indicator.
- 2. Press the POWER button on the projector or ON (I) button on the remote control.
 - It may take about one minute for the lamp to light up.
 - The lamp fails to light up on rare occasions. In such a case, wait for a few minutes and then try again.
 - Do not cover the lens with the lens cap while the lamp is on.
 - After the POWER button is pressed, the image may flicker before the lamp becomes stable. This is not a product malfunction.
 - The STANDARD lamp mode is activated by default whenever the projector is turned on. When the LOW LAMP MODE has been chosen, the default STANDARD lamp mode is switched to the LOW lamp mode in 1 minute.
 - The projector starts warming up when the POWER button is pressed. During the warm-up process, images may appear dark and no commands are accepted.
 - By blinking red, the STATUS indicator indicates that the lamp should be replaced soon. Replace the lamp when the STATUS indicator blinks red. (See page 44.)
- 3. Adjust the focus by turning the focus ring.
- 4. Select an input source.
 - Press the HDMI/COMPUTER button on the projector or the COMPUTER button on the remote control to select COMPUTER.
 - The input source is switched between COMPUTER and HDMI every time you press the HDMI/COMPUTER button on the projector.
 - Though it may take some time before an image is displayed on the screen depending on the type of the input signal, such symptom is not a malfunction.
 - Images may not be projected in the correct position, depending on the type of the input signal. In such a case, press the AUTO POSITION button. (See page 24.)
 - The projector automatically selects the appropriate signal format. (The selected signal format is displayed on the INFORMATION menu.)
 - You cannot change the input source while the menu is being displayed.
 - When COMPUTER is chosen as the source, images supplied from the computer may flicker. Press the ◀ or ▶ button on the remote control to reduce flicker, if it occurs. (Fine adjustment)
- 5. Adjust the position of the projector to keep an appropriate projection distance with which images are projected in their specified sizes.
- 6. Adjust the position of the projector so that the projector and the screen are perpendicular to each other. (See page 10.)
 - When the projector cannot be positioned perpendicularly to the screen, adjust the projection angle. (See page 12.)

Viewing computer images (continued)

- 7. Adjust the image size by turning the zoom ring.
 - If necessary, adjust the focus and zoom again.

To stop projecting:

- 8. Press the POWER button on the projector or the OFF ((')) button on the remote control.
 - A confirmation message is displayed.
 - To cancel the procedure, leave the projector for a while or press the MENU button.
- 9. Press the POWER button on the projector or the OFF ((')) button on the remote control again.
 - The lamp goes out and the projector goes into a standby mode. In this standby mode, the STATUS indicator blinks green.
- 10. Wait about 90 seconds.
 - During this period of 90 seconds in the standby mode, the intake fan and exhaust fan rotate to cool the lamp.
 - The lamp can't be lit again for 1 minute after turning off the projector for safety purpose. It will take another 1
 minute for the STATUS indicator to go out. If you want to turn on the projector again, wait until the indicator goes
 out, and then press the POWER button.
 - The air outlet fans rotate faster as the temperature around the projector rises.
 - Do not unplug the power cord while the STATUS indicator is blinking. Unplugging the power cord immediately after use may cause a lamp breakdown.
 - Though the fan makes loud sounds during cooling, such symptom is not a malfunction.
- 11. Unplug the power cord from the outlet.
 - · The POWER indicator will go out.
 - If the power cord should be unplugged accidentally while either the air inlet fan or the air outlet fans are
 operating or the lamp is on, allow the projector to cool down for 10 minutes with the power off. To light the lamp
 again, press the POWER button. If the lamp doesn't light up immediately, repeat pressing the POWER button
 two or three times. If it should still fail to light up, replace the lamp.
 - · Cover the lens with the lens cap to protect it from dust.

AUTO POSITION button

When the image supplied from the computer is displaced, carry out the following procedure.

- 1. Display a bright image (such as a full-screen display of the Recycle Bin window).
- 2. When the screen saver has been enabled, disable it.
- 3. Press the AUTO POSITION button.
 - The projector automatically makes optimum positional settings for the input signal.
- If the image is not projected in the correct position even after you press the AUTO POSITION button several times, change the settings in the SIGNAL menu to put the image in the correct position. (See page 34.)
- · When you carry out this procedure with a dark image, the image may be displaced.

When connecting to a notebook computer:

When the projector is connected to a notebook computer, images may not be projected in some cases. In such cases, set the computer so that it can output signals externally. The setting procedure varies depending on the type of the computer. See the instruction manual of your computer.

Example of the setting procedure for external output

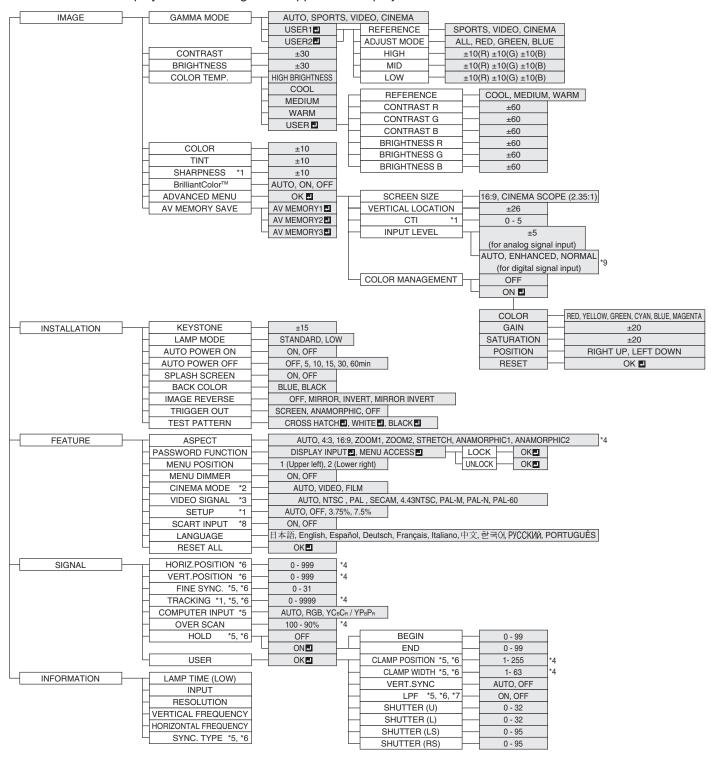
Press the [Fn] key and any of the keys [F1] to [F12] at the same time. (The key to be pressed depends on the type of the computer you use.)

Setting of the resolution

If the resolution of the computer doesn't match with that of the projector, projected images may be obscured. Ensure that their resolutions are the same (see page 46). For the method to change the output resolution of the computer, contact the manufacturer of the computer.

Menu operation

Menus are not displayed when no signal is supplied to the projector.



- * 1: Not available with certain signals.
- * 2: Available only when the input signal is TV50, TV60, 480i, 576i or 1080i.
- * 3: Available only when the input signal is from the VIDEO IN or S-VIDEO IN terminal.
- * 4: Setting range differs depending on the input signals.
- * 5: Not available when the input signal is from the VIDEO IN or S-VIDEO IN terminal.
- * 6: Not available when the input signal is from the HDMI IN terminal.
- * 7: Available only when the input signal is 480i, 480p, 576i, or 576p.
- * 8: Available only when the input signal is from the COMPUTER IN/COMPONENT VIDEO IN terminal.
- * 9: Available only when RGB output is selected on the output device side.



How to set the menus:

The following describes how to set AUTO POWER OFF time as an example.

1. Press the MENU button.



Press the ◀ or ▶ button to select a menu to use.



3. Press the ENTER button (or ▼ button).



Press the ▲ or ▼ button to select an item to adjust.



5. Set the selected item by pressing the ◀ or ▶ button.



To cancel the menu:

6. Press the MENU button several times.

Important:

- When the MENU button doesn't function, unplug the power cord from the wall outlet. Wait about 10 minutes, plug the power cord in, and try again.
- After selecting the items marked with , press the ENTER button.

Available settings in the menus

Set the following items on their relevant menus.

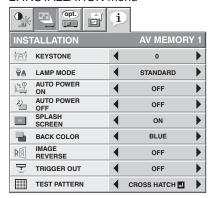
1. IMAGE menu

ITEM	SETTING	FUNCTION	1. IMAGE menu
GAMMA MODE	automatically selected depending on the		IMAGE AV MEMORY 1
		input signal. Default is AUTO.	S GAMMA MODE ■ AUTO
	SPORTS	This is a bright mode suitable for watching sports images.	CONTRAST 0
	VIDEO	This is a standard mode suitable for	₩ BRIGHTNESS • 0 •
		watching video images, etc.	COLOR TEMP. MEDIUM
	CINEMA	This is a mode for watching movies in dim lighting as in a theater.	COLOR 0
	USER1 ┛/	Select to adjust the gamma curve. (See	TINT 0
	USER2 🛂	page 33.)	BrilliantColor™
CONTRAST	±30	Use to adjust the contrast of the projected image. (See page 31.)	ADVANCED MENU OK
BRIGHTNESS	±30	. , ,	AV MEMORY AV MEMORY1 AV MEMORY1
DRIGHTINESS	±30	Use to adjust the brightness of the projected image. (See page 31.)	
COLOR TEMP.	5 options	Use to adjust the color temperature. (See pa	age 32.)
COLOR	±10	Use to adjust the color thickness of the proje	ected image. (See page 31.)
TINT	±10	Use to adjust the color tint of the projected i	
SHARPNESS	±10	Use to adjust the sharpness of the projected	• • • •
BrilliantColor™	AUTO	BrilliantColor™ works automatically in respon	
	ON	Produces sharp images in bright environme	,
	OFF	BrilliantColor™ does not work.	
ADVANCED MENU	. .		
SCREEN SIZE	2 options	Select according to the screen size.	
VERTICAL LOCATION	±26	Use to adjust the position (height) of the pro	ejected image.
CTI	0 - 5	Use to correct smeared color boundaries.	
INPUT LEVEL	±5	For analog signal input: The input level of vic connected. High input level causes solid wh causes displayed image to get dark. Use thi video signal.	ite in displayed image and low input level
	AUTO / ENHANCED / NORMAL	For digital signal input: AUTO: The proper setting is automated the ENHANCED: Select when solid black occurs. NORMAL: Select when grayish black of (See page 16.)	urs. occurs.
COLOR MANAGEMENT	ON 🛂 / OFF	When you turn COLOR MANAGEMENT on, y adjusting each of GAIN and SATURATION of	you can change to any desired color by six different colors. (See page 33.)
AV MEMORY SAVE	3 options	Select the AV MEMORY to which you save to	the current setting. (See page 30.)

- By using the AV memory function, you can save up to 3 setting patterns of IMAGE menu for each input terminal. (See page 30.)
- İNPUT LEVEL is unavailable when the digital signal is supplied from the YC_BC_B/YP_BP_B terminal of the connected device.



2. INSTALLATION menu



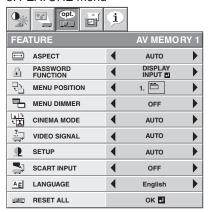
2. INSTALLATION menu

ITEM	SETTING	FUNCTION
KEYSTONE	±15	Use to correct vertical keystone distortion.
LAMP MODE	STANDARD	Select this option when you want to view images in a well-lit room.
	LOW	Select to moderate the intensity of the lamp. The fan operating sound is
		reduced and the lamp lifetime becomes longer.
AUTO POWER ON	ON / OFF	When ON is chosen, the lamp is automatically lit when the power cord is plugged in the wall outlet. Choose ON when using the projector mounted on the ceiling.
		 The projector is in the stand-by mode when the lamp is off. Use the remote control to turn on the lamp.
AUTO POWER OFF	OFF / 5 - 60min	Use to set the time elapsed before the projector enters the stand-by mode when there is no signal input from the source.
SPLASH SCREEN	ON / OFF	Choose ON to display the splash screen when the power is turned on.
BACK COLOR	BLUE / BLACK	Use to change the color of the screen that appears when no signal is supplied.
IMAGE REVERSE	OFF	Select when viewing images from the front with the projector installed on the floor.
	MIRROR	Select when viewing images projected from the behind of the screen with the projector installed on the floor.
	INVERT	Select when viewing images projected from the behind of the screen with the projector installed on the ceiling.
	MIRROR INVERT	Select when viewing images from the front with the projector installed on the ceiling.
TRIGGER OUT	SCREEN	The trigger output signal (12 V) is output from the TRIGGER terminal when the lamp illuminates.
	ANAMORPHIC	The trigger output signal (12 V) is output from the TRIGGER terminal when the aspect ratio is set to ANAMORPHIC 1 or ANAMORPHIC 2.
	OFF	The trigger output signal (12V) isn't output.
TEST PATTERN	CROSS HATCH	Select to show the test cross hatch pattern.
	WHITE -	Select to show the maximum brightness image.
	BLACK 🛂	Select to show the minimum brightness image.

- The STANDARD lamp mode is activated by default whenever the projector is turned on. When the LOW LAMP MODE has been chosen, the default STANDARD lamp mode is switched to the LOW lamp mode in 1 minute.
- When the lamp mode is switched, the projected image may flicker. This is not a product malfunction.
- Do not change the setting of LAMP MODE frequently.
- To cancel the test pattern, press any button.



3. FEATURE menu



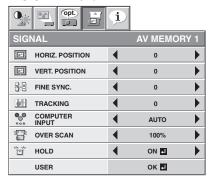
3. FEATURE menu

ITEM	SETTING	FUNCTION
ASPECT	AUTO	Select to change the aspect ratio automatically depending on the input signal.
	4:3	Select to project images with an aspect ratio of 4:3.
	16:9	Select to project images with an aspect ratio of 16:9. (Linearly stretched.)
	ZOOM1	Select to enlarge and project images of CinemaScope size.
	ZOOM2	Select to enlarge and project images of Vista size.
	STRETCH	Select to enlarge to 16:9 and project of the images with an aspect ratio of 4:3. (Non-linearly stretched.)
	ANAMORPHIC1	This mode is suitable for viewing 2.35:1-size images using the anamorphic lens. Use the ▲ or ▼ key to adjust the vertical display position. This mode doesn't support input signals from personal computers.
	ANAMORPHIC2	This mode is suitable for viewing 16:9- or 4:3-size images or images input from personal
	7 11 17 11 11 11 11 11 11 11 11 11 11 11	computers using the anamorphic lens.
PASSWORD FUNCTION		Use to enable or cancel the password lock. See page 35 for details.
MENU POSITION	2 options	Use to change the position of the menu.
MENU DIMMER	ON / OFF	Use to reduce the brightness of the menu.
CINEMA MODE	AUTO	The film mode will be automatically activated when a film source signal is input. Select AUTO for normal use.
		When flicker occurs on the screen or jaggies on slanting lines are remarkable, select
		FILM when a film source signal is input or select VIDEO for other signals.
	VIDEO	The film mode will not be activated.
	FILM	Fixed to the film mode.
VIDEO SIGNAL	8 options	When AUTO is selected, the appropriate video format is automatically selected depending on the input signal. If the image isn't displayed correctly, select the desired video format manually.
SETUP	AUTO	Select AUTO for normal use. When LANGUAGE is not set to 日本語 and 480i, 480p or TV60 signal is input, the SETUP changes to 7.5% automatically.
	OFF	Select to make black lighter.
	3.75% / 7.5%	Select to make black intense.
		 When 7.5% is chosen, the brightness is decreased by the set-up cancel function for the U.S. Choose OFF when the image is dark.
SCART INPUT	ON / OFF	Choose ON when connecting the projector with a device equipped with the SCART terminal that can output RGB signal. SCART terminal is used mainly in Europe. Choose OFF normally. (Available only for the input signal from the COMPUTER IN/COMPONENT VIDEO IN terminal.)
LANGUAGE	10 languages	Use to select the language used in the menus.
RESET ALL	OK 🗖	Use to reset the settings of the menu (excluding PASSWORD FUNCTION and LANGUAGE) to the factory setting values.

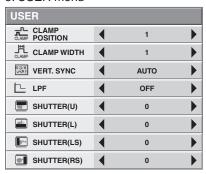
- When SCREEN SIZE of ADVANCED MENU is set to CINEMA SCOPE(2.35:1) in the IMAGE menu, STRETCH, ANAMORPHIC1 and ANAMORPHIC2 cannot be selected for ASPECT.
- When SCART INPUT is set to ON, normal computer signals aren't projected.
- Use a SCART-BNC (or SCART-Mini D-SUB 15-pin) cable (option) when connecting this projector with an AV device equipped with the SCART terminal.
- Some AV devices equipped with the SCART terminal aren't compatible with this projector.
- It may take a little while to carry out RESET ALL in the FEATURE menu.



4. SIGNAL menu



5. USER menu



4. SIGNAL menu

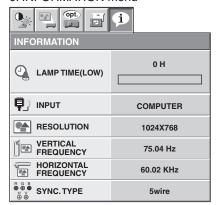
ITEM	SETTING	FUNCTION
HORIZ. POSITION	0 - 999	Use to adjust the horizontal position of the projected image.
VERT. POSITION	0 - 999	Use to adjust the vertical position of the projected image.
FINE SYNC.	0 - 31	Use to eliminate flickering or blur, if it appears, while viewing the projected image.
TRACKING	0 - 9999	Use to eliminate vertical wide stripes, if it appears, while viewing the projected image.
COMPUTER INPUT	AUTO	The proper setting is automatically selected.
	RGB	Select this option when connecting the projector to high definition video equipment having R, G, and B output terminals.
	YC _B C _R / YP _B P _R	Select this option when connecting the projector to a DVD player or other device having Y, C_B , and C_R (or Y, P_B , and P_R) component video output terminals.
OVER SCAN	100 - 90%	Use to adjust the display area of the projected image when playing LD and DVD discs.
HOLD	OFF / ON 🗖	Use to adjust the image when flagging occurs near the top of the screen.

- Though horizontal strips may appear on the enlarged projected image, such symptom is not a malfunction.
- When you change the horizontal or vertical position to a large extent, noise may appear.
- The adjustable range of the vertical position varies depending on the type of the input signal. Though the image may stay in the same position even when the setting value is changed, such symptom is not a malfunction.
- If you increase the OVER SCAN setting when viewing video signals, noise may appear on the screen. In this case, decrease the OVER SCAN setting.

5. USER menu

ITEM	SETTING	FUNCTION
CLAMP POSITION	1 - 255	Use to correct solid white or solid black in the projected image.
CLAMP WIDTH	1 - 63	Use to correct solid black in the projected image.
VERT. SYNC	AUTO / OFF	Use to adjust the image when its motion doesn't run smoothly. Select AUTO
		for normal use.
LPF	ON / OFF	Use to select whether or not to enable the LPF.
SHUTTER(U)	0 - 32	Use to display the black bar on the top part of the image.
SHUTTER(L)	0 - 32	Use to display the black bar on the bottom part of the image.
SHUTTER(LS)	0 - 95	Use to display the black bar on the left half of the image.
SHUTTER(RS)	0 - 95	Use to display the black bar on the right half of the image.

6. INFORMATION menu



6. INFORMATION menu

ITEM	DESCRIPTION
LAMP TIME(LOW)	This item shows a lamp operating time (hour) calculated based on that LAMP MODE is LOW.
	 When the LAMP MODE is STANDARD, this item shows a longer lamp operating time than the actual time. (See page 36 for the interval of lamp replacement.)
	 When the lamp operating time is 0 to 10 hours, "0H" is displayed. The lamp operating time exceeding 10 hours is indicated by the actual hours.
	• When the lamp operating time reaches 3750 hours, the bar turns to yellow. When it reaches 4750 hours, the bar turns to red.
INPUT	Indicates the name of the terminal to which the currently projected video signal is being input.
RESOLUTION	Indicates the resolution of the currently projected video signal.
VERTICAL FREQUENCY	Indicates the vertical frequency of the currently projected video signal.
HORIZONTAL FREQUENCY SYNC. TYPE	Indicates the horizontal frequency of the currently projected video signal. Indicates the type of the sync signal for the currently projected video signal.

AV memory

You can store up to 3 patterns of the image quality setting for each input source.

To store the settings

- 1. Set the items of the IMAGE menu.
 - Setting the items by using the picture quality adjusting buttons on the remote control is also available.
- Press the ▲ or ▼ button to select AV MEMORY SAVE.
- 3. Press the ◀ or ▶ button to select AV MEMORY (1, 2 or 3) to store the settings.
- 4. Press the ENTER button.

To enable the stored image quality settings

- 1. Press the AV MEMORY button to call up the stored setting.
- When you make change to the stored setting you call up, the changed setting remains effective but is not saved to the AV MEMORY unless AV MEMORY SAVE is executed.
- When the input source is changed, the AV memory setting selected just before is automatically selected.
- When RESET ALL in the FEATURE menu is selected, all the settings of the AV memory are cleared.

Adjusting projected images

To adjust the brightness (CONTRAST and BRIGHTNESS):

You can make adjustments for the brightness of the projected image using the menu.

(See page 26 for menu setting.)

- 1. Display the IMAGE menu.
- 2. Select CONTRAST or BRIGHTNESS by pressing the ▲ or ▼ button.
- 3. Adjust the selected item by pressing the ◀ or ▶ button.

To cancel the menu:

4. Press the MENU button.

CONTRAST

Select to adjust the contrast of the image. Every time the ▶ button is pressed, the image becomes brighter and more defined. Every time the ◀ button is pressed, the image becomes darker and less defined.

BRIGHTNESS

Every time the ▶ button is pressed, the image becomes brighter. Every time the ◀ button is pressed, the image becomes darker.

To adjust the color (COLOR and TINT):

You can adjust the color of the projected image using the menu.

(See page 26 for menu setting.)

- 1. Display the IMAGE menu.
- 2. Select COLOR or TINT by pressing the ▲ or ▼ button.
- 3. Adjust the selected item by pressing the ◀ or ▶ button.

To cancel the menu:

4. Press the MENU button.

COLOR

Use to adjust the color intensity of the projected image. Every time the ▶ button is pressed, the color intensity increases. Every time the ◀ button is pressed, the color intensity decreases.

TINT

Use to adjust the tint of the projected image. Every time the ▶ button is pressed, the image appears more greenish. Every time the ◀ button is pressed, the image appears more reddish.

To sharpen or soften the projected image (SHARPNESS):

You can adjust the sharpness of the projected image using the menu.

(See page 26 for menu setting.)

- 1. Display the IMAGE menu.
- Select SHARPNESS by pressing the ▲ or ▼ button.
- Adjust the selected item by pressing the ◀ or ▶ button.

To cancel the menu:

4. Press the MENU button.

How to Use BrilliantColor™

Use the BrilliantColor™ effect through the menu.

(See page 26 for menu setting.)

- 1. Display the IMAGE menu.
- 2. Select BrilliantColor[™] by pressing the ▲ or ▼ button.



- 3. Select AUTO or ON by pressing the ◀ or ▶ button.
 - AUTO: BrilliantColor[™] automatically works in response to the gamma mode, and switches between adjustment to a bright home theater-like environment and that to dim lighting.
 - ON: Produces sharp images even in a bright home theater-like environment.
 - OFF: BrilliantColor™ is disabled and gradation is adjusted to natural brightness.

To cancel the menu:

4. Press the MENU button.

Adjusting projected images (continued)

To adjust the tone of white (COLOR TEMP.):

You can select a preset color temperature (white tone) using the menu.

(See page 26 for menu setting.)

- 1. Display the IMAGE menu.
- 2. Select COLOR TEMP. by pressing the ▲ or ▼ button.
- Select your desired color temperature by pressing the ◀ or ▶ button.

The color temperature of each option is as follows:

COOL: Approx. 9300K, MEDIUM: Approx. 6500K (D65), WARM: Approx. 5800K.

To cancel the menu:

4. Press the MENU button.

To adjust the tone of white (To customize the color temperature):

To customize (and store) the color temperature to your preference, carry out the following procedure. (See page 26 for menu setting.)

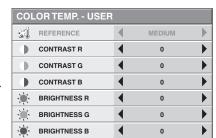
- 1. Select COLOR TEMP. in the IMAGE menu.
- 2. Press the ◀ or ▶ button to select USER ■.
- 3. Press the ENTER button.
- 4. Press the ▲ or ▼ button to select REFERENCE.
- Press the ◀ or ▶ button to select basic color temperature.
 - Generally, select the most preferable color temperature from the preset color temperature.
- 6. Press the ▲ or ▼ button to select the desired item.
- 7. Press the ◀ or ▶ button to adjust the selected item.
- 8. Repeat steps 6 and 7 for optimum adjustment results.

To cancel the menu:

9. Press the MENU button.

To enable the stored color temperature:

1. Select USER **D** by pressing the COLOR TEMP. button on the remote control.



About color temperature

There are different kinds of white color. Color temperature is a way to show the differences in white. White of which temperature is low appears reddish. When the color temperature rises, white appears bluish. For example, you can change the color temperature using the following procedures.

To rise the color temperature: Increase the CONTRAST B (blue) and decrease the CONTRAST R (red).

To reduce the color temperature: Decrease the CONTRAST B (blue) and increase the CONTRAST R (red).

• If you set all of CONTRAST R, G, and B to negative values, the original brightness of the image can't be obtained even when you maximize CONTRAST in the IMAGE menu.

Adjusting projected images (continued)

How to Use COLOR MANAGEMENT

This projector can individual adjusts each tone in red, yellow, green, cyan, blue and magenta. You can adjust the tone colors using the COLOR MANAGEMENT menu.

- Select ADVANCED MENU from the IMAGE menu.
- Turn on COLOR MANAGEMENT on the ADVANCED MENU and open Color Management menu.

Once the COLOR MANAGEMENT button on the remote control is pressed, this Color Management menu will directly open.

The default setting is COLOR - RED.

- Using the

 or

 button, select color RED

 YELLOW

 GREEN

 CYAN → BLUE → MAGENTA → RED.
- 4. Using the ▼ button, select GAIN → SATURATION as items to be adjusted.
- Select COLOR and items to be adjusted in advance and change numeric values using the

 or

 button while watching the screen.
- Once POSITION has been selected, you can change the display position of the Color Management menu.
- When you select RESET and press the ENTER button, COLOR MANAGEMENT will be reset back to the default settings. However, the contents of AV MEMORY will not be reflected in the reset unless AV MEMORY is saved.

To cancel the menu:

6. Press the MENU button.

To adjust the ratio of change in brightness (GAMMA MODE):

You can select a preset gamma mode using the menu.

(See page 26 for menu setting.)

- 1. Display the IMAGE menu.
- Select GAMMA MODE by pressing the ▲ or ▼ button.
- Select your desired gamma mode by pressing the ◀ or ▶ button.

To cancel the menu:

4. Press the MENU button.

To adjust the original ratio of change in brightness (To customize the gamma mode):

To customize (and store) the gamma mode to your preference, carry out the following procedure. (See page 26 for menu setting.)

- Select GAMMA MODE in the IMAGE menu.
- Press the ◀ or ▶ button to select USER1 or USER2 .
- Press the ENTER button.
- Press the ▲ or ▼ button to select REFERENCE.
- Press the ◀ or ▶ button to select basic gamma curve.
 - · Generally, select the most preferable gamma curve from the preset gamma
- Press the ▲ or ▼ button to select ADJUST MODE.
- Press the ◀ or ▶ button to adjust mode of gamma curve (ALL, RED, GREEN, or BLUE).
 - Select whether to adjust RED, GREEN, and BLUE collectively or separately.
- 8. Press the ▲ or ▼ button to select the desired item.

: Use to adjust the gradation of the bright scenes. (The values displayed correspond to RED, HIGH

GREEN, and BLUE from the left respectively.)

MID : Use to adjust the gradation of the medium brightness scenes. (The values displayed correspond

to RED, GREEN, and BLUE from the left respectively.)

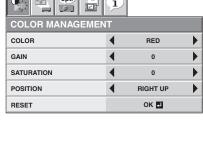
LOW : Use to adjust the gradation of the dark scenes. (The values displayed correspond to RED,

GREEN, and BLUE from the left respectively.)

- 9. Press the ◀ or ▶ button to adjust the selected item.
- 10. Repeat steps 6 9 for optimum adjustment results.

To cancel the menu:

11. Press the MENU button.



GAMMA MODE - USER1

VIDEO

ALL

0

0 0 0

0 0 Þ

Þ

Þ

REFERENCE

ADJUST MODE

ALU BICIB

HIGH

 \mathbf{i}

Adjusting projected images (continued)

To enable the stored gamma mode:

- 1. Select USER1 or USER2 by pressing the GAMMA button on the remote control.
- Change in the brightness may be hard to recognize in some images.

This projector automatically and properly projects video signals supplied from the computer. However, some video signals may not be projected, depending on the type of the computer. In such a case, press the AUTO POSITION button. (See page 24.) When the signal is still not projected properly, adjust the projected image using the SIGNAL menu.

How to adjust the image supplied from the computer using the menu:

Carry out the following procedures according to the symptoms.

, 31	
	Adjust TRACKING in the SIGNAL menu.
The projected image flickers.	
The projected image is blurred	Adjust FINE SYNC. in the SIGNAL menu.
The projected image is displaced horizontall	yAdjust HORIZ.POSITION in the SIGNAL menu. Every time the ■ button is pressed, the image moves to the right. Every time the button is pressed, the image moves to the left.
The projected image is displaced vertically.	Adjust VERT.POSITION in the SIGNAL menu. Every time the
	■ button is pressed, the image moves down. Every time the ■ button is pressed the image moves down. ■ bu
	button is pressed, the image moves up.
The top part of the image flags	
A solid black or solid white appears in the im	ageAdjust CLAMP POSITION or CLAMP WIDTH in the SIGNAL - USER menu.
The motion doesn't run smoothly	Adjust VERT. SYNC. in the SIGNAL - USER menu. Select AUTO for normal use.
Noise appears on the right or left half of the	imageAdjust SHUTTER(LS) or SHUTTER(RS) in the SIGNAL - USER menu.
Noise appears on the top or bottom part of the	he imageAdjust SHUTTER(U) or SHUTTER(L) in the SIGNAL - USER
	menu.

- 1. Display the SIGNAL menu.
- 2. Press the ▲ or ▼ button to select an item to adjust.
- 3. Adjust the selected item by pressing the ◀ or ▶ button.

To cancel the menu:

- 4. Press the MENU button.
- Do not change the settings of the SIGNAL menu in normal use.

Simple method to adjust the image position

To adjust the horizontal position:

- 1. Align the left edge of the image with the left side of the screen by adjusting HORIZ.POSITION. Then, align the right edge of the image with the right side of the screen by adjusting TRACKING.
- 2. Repeat step 1 above to complete the adjustment of the horizontal position.

To adjust the vertical position:

3. Align the upper edge of the image with the upper side of the screen by adjusting VERT.POSITION.

LPF (Progressive filter)

You can select whether or not to enable the LPF.

Vertical or horizontal streak noise may appear on the projected image, depending on the type of the DVD player you use. In such a case, you can reduce such streak noise by enabling the LPF. However, projected images become softened slightly.

Advanced features

Password function

This projector is equipped with the password function that is designed for prevention of theft and wrong operation by children and restriction on operation by other than specified users. The password function has two modes as follows.

DISPLAY INPUT........... When the projector is turned on, the startup screen (or splash screen) will appear and stay on the screen until the password is entered. When the password is entered, the startup screen will switch to the regular operation screen.

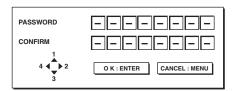
MENU ACCESS All the buttons except for the POWER button on the projector are disabled. (The buttons on the remote control are enabled.) You can use this mode as a measure of prevention of wrong operation by children and restriction on operation by other than specified users.

To enable the password function:

- 1. Display the FEATURE menu.
- Press the ▲ or ▼ button to select PASSWORD FUNCTION.
- 3. Press the ▶ button to change the mode among DISPLAY INPUT and MENU ACCESS ■.
 - When the password has already been set, the mode won't be changed. In such cases, press the ENTER button to cancel the password function and try again.
- 4. Press the ENTER button.
 - The screen for setting the password function will appear.



- 5. Press the ENTER button.
 - The screen for entering a password will appear.



6. Enter a 4 - 8 digit password using the ▲, ▶, ▼ or ◀ buttons on the remote control as shown below.

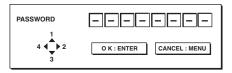
- 7. Press the ENTER button.
 - To cancel the procedure, press the MENU button.
- 8. Enter the password again for confirmation using the same steps.
- 9. Press the ENTER button.
 - If the entered passwords don't match, an error message will appear.
 - To cancel the procedure, press the MENU button.

To cancel the password function:

- 1. Display the FEATURE menu.
- Press the ▲ or ▼ button to select PASSWORD FUNCTION.
- 3. Press the ENTER button.
 - The screen for canceling the password function will appear.



- 4. Press the ENTER button.
 - The screen for entering the password will appear.



5. Enter a 4 - 8 digit password using the ▲, ▶, ▼ or ◀ buttons on the remote control as shown below.

- 6. Press the ENTER button.
 - If you enter a wrong password, an error message will appear.
 - To cancel the procedure, press the MENU button.

Important:

 Disable the password by pressing the MENU and ENTER buttons on the control panel at the same time about three seconds.

Kensington Lock

This projector has a Kensington Security Standard connector for use with Kensington MicroSaver Security System. Refer to the information that came with the Kensington System for instructions on how to use it to secure the projector. Please contact Kensington Technology Group below.

Kensington Technology Group 2855 Campus Drive San Mateo, CA 94403, U.S.A. Phone: +1- (650)572-2700

Fax: +1- (650)572-9675



Replacing the lamp

This projector is equipped with a lamp to project images. This lamp is a consumable. It may burn out or its brightness may decrease during use. In such cases, replace the lamp with a new one as soon as possible. Be sure to replace the lamp with a new lamp sold separately that is exclusive to this projector. Contact your dealer for purchase of the lamp.

Spare lamp VLT-HC3800LP

Warning:

- Be careful not to drop the lamp fixing screws inside of the projector. Don't put a metal piece or flammable object into the projector. Using the projector with any foreign object present inside may result in electric shock or fire. When you can't remove the foreign object from the inside, contact your dealer for removal.
- Be sure to install the lamp securely. When the lamp isn't installed properly, it won't illuminate. Improper installation may also result in fire.
- Don't shake the removed lamp or don't lift it above your face. Your eyes may be injured by flying or falling glass fragments.
- Don't replace the lamp immediately after use because the lamp cover will be very hot. You may get burned. Turn off the power using the POWER button. After the lamp goes out, wait about 90 seconds until the intake and exhaust fans for cooling the lamp stop rotating. Then unplug the power cord, and wait at least one hour to allow the lamp to cool down enough to the touch.
- Do not touch the lamp directly. It may break and cause injury or burn.

Interval of lamp replacement

The recommended interval of lamp replacement is about 5000 hours*1*2 of consecutive use. Such interval differs depending on the operating environment and may be shorter than 5000 hours*1*2. Decrease in luminescence and/or color brightness indicates that the lamp needs to be replaced. When the lamp operation time exceeds 3750 hours*1, the indicator will blink alternately between green and red (while the lamp is lit; when the lamp is not lit, the indicator will be lit red only) and the lamp replacement message will appear on the screen for one minute everytime the lamp is turned on. When the lamp has been used for about 4750 hours*1, the replacement message (LAMP EXCHANGE) will appear on the screen for one minute every 25 hours*1 thereafter. When the lamp operation time exceeds 5000 hours*1*2, the projector automatically shuts off and can't be used until the lamp is replaced and the lamp operation time is reset.

- *1: Duration when LAMP MODE of the INSTALLATION menu is set to LOW. When it is set to STANDARD, this duration will be shorted.
- *2: When LAMP MODE is set to STANDARD, this duration will be shorted to 3000 hours.

Caution:

- Don't remove the lamp for any purpose other than replacement. Unnecessary removal of the lamp may result in a breakdown
- This projector uses a high-pressure mercury lamp as the light source. The high-pressure mercury lamp may explode or fail to illuminate permanently because of an impact, scratch, or deterioration through use. The period of time until explosion or permanent failure to illuminate varies considerably from lamp to lamp, depending on operation conditions. Therefore, the lamp may explode soon after the start of use.
- The possibility of explosion of the lamp increases if you use it beyond its replacement period. When the instruction of lamp replacement appears, replace it with a new one immediately even if the lamp is still lighting normally.
- When the high-pressure mercury lamp explodes, glass fragments will scatter inside or outside the lamp box and the gas charged inside the lamp will diffuse inside or outside the projector. The gas inside the lamp contains mercury. Be careful not to breathe it or avoid it from entering your eye or mouth. If you should breathe it or if it should enter your eye or mouth, see a doctor immediately.
- In the event that the high-pressure mercury lamp exploded, glass fragments may have been scattered inside the
 projector. Ask your dealer to replace the lamp and to inspect the inside of the projector. When you clean or replace
 the lamp by yourself, be sure to hold the handle of the lamp. You may get injured by glass fragments.
- When removing the lamp from the ceiling-mounted projector, use the Lamp Replacement Attachment packed with the projector or option lamp to prevent glass fragments from scattering.
- Be sure to use the lamp exclusive to this projector, VLT-HC3800LP. Use of other lamps may cause a failure of the projector.

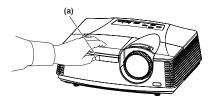
Replacing the lamp (continued)

To replace the lamp:

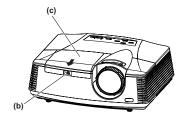
A) When the projector is placed on the table

Make sure that the projector is securely held in place.

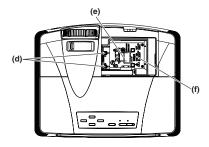
 Remove the cover (a) of the screw fixing the lamp cover with a fingernail. If it is difficult to remove it with a fingernail, use a finetipped tool such as flathead screwdriver.



2. Remove the screw (b) and slide the lamp cover (c) for removal.



3. Loosen the two screws (d) of the lamp unit, and then pull out the lamp unit (f) by the handle (e).



Caution:

- When replacing the lamp, do not loosen the screws other than two screws (d). It may cause the failure of projector.
- Pull the lamp unit out of the projector slowly.
 If it is pulled out quickly, the lamp may break, scattering glass fragments.
- Do not spill liquid on the removed lamp unit or do not place it near any flammable object or where children can reach to prevent injuries or fire.
- 4. Insert the new lamp unit, and secure it with two screws firmly.
- 5. Secure the lamp cover with screw (b) back again, and mount the cover (a).

Caution:

Make sure that the lamp cover is secured firmly.
 Otherwise, the POWER indicator flashes red and green, disallowing the projector to be powered on.

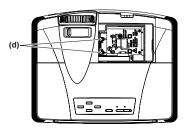
B) When the projector is mounted to the ceiling

When removing the lamp unit from the projector mounted to the ceiling, never fail to use the Lamp Replacement Attachment to protect yourself from glass fragments and so on.

- Contact your dealer when replacing the lamp unit with the projector mounted to the ceiling.
- Remove the lamp cover referring to the procedure 1 and 2 of "A) When the projector is placed on the table".

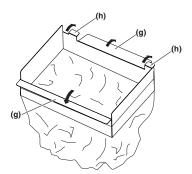
Caution:

- When opening the lamp cover to replace the lamp of the ceiling-mounted projector, pay careful attention because glass fragments may exist inside the lamp cover.
- 2. Loosen the two screws (d) of the lamp unit.



Caution:

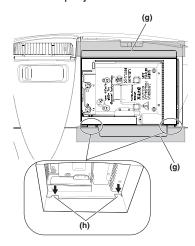
- When replacing the lamp, do not loosen the screws other than two screws (d). It may cause the failure of projector.
- 3. Assemble the Lamp Replacement Attachment by folding two taping portions (g) and two cutout portions (h) along the folding line as the figure.



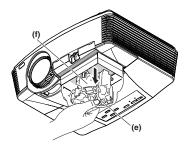


Replacing the lamp (continued)

4. Insert the two cutout portions (h) in the slit of the projector, paste the two taping portions (g) with the tape included in the Lamp Replacement Attachment, and then fix the Lamp Replacement Attachment to the projector.



Pull out the lamp unit (f) in the bag by the handle (e).



- 6. Remove the tape fixing the Lame Replacement Attachment, and remove the Lamp Replacement Attachment with the lamp unit remaining in the bag. **Caution:**
 - Pull the lamp unit out of the projector slowly.
 If it is pulled out quickly, the lamp may break, scattering glass fragments.
 - Do not spill liquid on the removed lamp unit or do not place it near any flammable object or where children can reach to prevent injuries or fire.
- 7. Insert the new lamp unit, and secure it with two screws firmly.
- 8. Secure the lamp cover with screw (b) back again, and mount the cover (a).

Caution:

Make sure that the lamp cover is secured firmly.
 Otherwise, the POWER indicator flashes red and green, disallowing the projector to be powered on.

Reset of the lamp operation time

Plug in the power cord, and reset the lamp operation time by keep pressing the ◀, ▶, and POWER buttons on the control panel at the same time.

Important:

- Unless these 3 buttons are held down at the same time, the lamp operation time isn't reset.
- Make sure that the STATUS indicator blinks twice and the lamp operation time is reset successfully.
- The projector doesn't turn on if the lamp cover isn't attached securely.
- Be sure to reset the lamp operation time whenever you replace the lamp.
- Do not reset the lamp operation time unless you replace the lamp.
- The lamp is fragile. If it is broken, be careful not to cut yourself with glass fragments.

Caution:

 This projector uses a lamp that contains mercury. Disposal of the lamp or the projector with the lamp may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org. (For the U.S. only.)

Maintenance

Warning:

Do not use flammable solvents (benzene, thinner, etc.) and flammable aerosols when cleaning the projector body and lens. Flammable substances may ignite causing fire or breakdown while the lamp is illuminating.

Caution:

Be sure to turn off the lamp and unplug the power cord from the wall outlet before you perform any maintenance on the projector.

Cleaning of the projector and the ventilation slots

Use a soft cloth to clean the projector and the ventilation grilles. When the grilles become dirty, wipe them with a soft cloth dampened with diluted mild detergent, and then wipe them with a dry cloth.

To protect the surface of the projector from fading or deteriorating:

- Do not spray insecticide on or inside the projector.
- · Do not use benzine or thinner to clean it.
- Do not let rubber or plastic materials contact with projector.

Cleaning of the lens

Use a standard lens-cleaning brush or a piece of lens tissue dampened with lens cleaning fluid. The lens surface is fragile. Use only recommended, nonabrasive lens-cleaning materials. Do not touch the lens with your fingers.



Troubleshooting

Before asking for repair of the projector, check the following. If the symptom persists, stop using the projector, be sure to unplug the power plug, and then contact your dealer.

No image appears on the screen.

Problem	Solution		
Power can not be	Check whether the indicators are on or off and how they are lightning.		
turned on.	POWER STATUS Solution		
	Off O		
	If any objects are blocking the air inlet or outlet grill, re move them and carry out the following. In unplug the power cord from the wall outlet. Make sure that the projector has cooled off. Report Indiana Plug the power cord into the wall outlet. Press the POWER button.		
	o → o leady red Steady red Stead		
	After the STATUS indicator stops blinking, press the POWER button. If you unplug the power cord while the fan is rotating, the lamp may not turn on about one minute when you plug the power cord next time. The lamp can't turn on again for one minute after it goes out. Press the POWER button several times.		
	• Replace the lamp. (The lamp is at the end of its life.)		
	Off • Attach the lamp cover.		
	• Unplug the power cord from the wall outlet and contact your dealer . Steady or striking and contact your dealer .		
	O ⇌ Ò ← Blinking		
No image appears on the screen.	 Check that the lens cap is removed. It may take about one minute for the lamp to light up. The lamp fails to light up on rare occasions. In such a case, wait for a few minutes and then try again. If the projector was turned off before the lamp was cooled down sufficiently last time, the fan may start rotating and the POWER button may not work after the power cord is plugged. After the fan stops rotating, press the POWER button to turn back on the POWER indicator. Check that the intake vent is clean. Set SCART INPUT in the FEATURE menu to OFF. (See page 28.) Check that the lamp cover is closed. (See page 37.) Check that the cables connected to the external devices are not broken. When an extension cable is being used, replace it with the supplied cable for check. When images are displayed correctly, add an RGB signal amplifier to the extension cable. Check the operation manual of the video device for its connection. 		
Power turns off.	 This problem may occur when the intake vent and/or exhaust vents are blocked. (In such a case, the STATUS indicator brinks orange.) → Remove the objects blocking the intake vent and/or exhaust vents and then carry out the following procedure. 1. Wait for the intake fan and/or exhaust fan to stop. (Wait until the STATUS indicator goes out.) 2. Unplug the power cord from the wall outlet. 3. Wait at least 10 minutes. 4. Plug the power cord into the wall outlet. 5. Press the POWER button. When the STATUS indicator is steady red, it is indicating that the lamp should be replaced. Replace the lamp in this case. Check that AUTO POWER OFF has been set to OFF. If the lamp has deteriorated, it may go out after a while it illuminates. 		

Troubleshooting (continued)

No image appears on the screen. (continued)

Problem	Solution	
The screen for entering the password appears.	PASSWORD FUNCTION in the FEATURE menu has been set to DISPLAY INPUT to enable the password lock. → Enter the password or contact the person in charge of management of the projector. (See page 35.)	
"NO SIGNAL" is displayed.	 Turn on the power of the connected device, or check whether there is something wrong with the connected device. Check whether the external device output signals. (Check this especially when the external device is a notebook computer.) Check that the cable connected to the external device isn't defective. Check that the projector is connected to the external device using the correct terminals. Check that the connected device is correctly selected as the input source. When an extension cord is being used, replace it with the supplied cable and check whether images are projected correctly. If images are projected correctly, use an RGB signal amplifier along with the extension cord. 	

Images are not displayed correctly.

Problem	Solution
Projected images are shaking. Projected images are displaced.	 Check that the cable connected to the external device isn't intermittent. Connect the cable's plug with the external device's connector firmly. Press the AUTO POSITION button. Some computers output out-of-spec signals on rare occasion. Adjust the SIGNAL menu. (See page 34.)
Projected images are distorted.	Adjust the projector and the screen so that they are perpendicular to each other. (See page 10.)
Projected images are dark.	 Adjust BRIGHTNESS and CONTRAST in the IMAGE menu. (See page 31.) Replace the lamp. (See page 36.)
Projected images are blurred.	 Adjust the focus. (See pages 18 and 23.) Clean the lens. Press the ◀ or ▶ button on the remote control to eliminate flicker. Adjust TRACKING and FINE SYNC. in the SIGNAL menu. (See page 34.) Adjust BRIGHTNESS and CONTRAST in the IMAGE menu. (See page 31.) Adjust the projector and the screen so that they are perpendicular to each other. (See page 10.)
White dots are seen on projected images. Black dots are seen on projected images.	 This symptom is normal for a DLP[™] projector and is not a malfunction. (A very small number of pixels may stay lit or out, but such symptom is not a malfunction. Pixels of 99.99% or more are effective.)
Rainbow effect is seen on projected images.	 This is due to color breaking noise that occurs in a DLP™ system and is not a malfunction.
Fine streaks are seen on projected images.	 This is due to interference with the screen surface and is not a malfunction. Replace the screen or displace the focus a little. Vertical or horizontal streak noise may appear on the projected image, depending on the type of the DVD player or game console you use. In such a case, you can reduce such streak noise by enabling the LPF. (See page 29.)
Projected images become wavy.	 Connect the plugs of the cables to external devices securely. Keep the projector away from devices that emit interfering radio waves. When the keystone adjustment is carried out, the image may not be displayed correctly because of the type of input signal. This isn't a product malfunction. In this case, readjust the keystone so that the amount of keystone correction is as small as possible.
Hue is not appropriate.	Check that the cables connected to the external devices are not broken.
Tint in projected images is incorrect.	 Check that COMPUTER INPUT in the SIGNAL menu is correctly set. (See page 29.) Check that the cable connected to the external device isn't broken.

Troubleshooting (continued)

Images are not displayed correctly. (continued)

Problem	Solution
Different color tint.	 When comparing images projected by two projectors, tints in the displayed images may be different because of variation between their optical components. This is not a malfunction. When comparing the image projected by this projector with those displayed on the television or PC monitor, tints in the displayed images may be different because of difference in the range of color reproducibility. This is not a malfunction.
Only the motion areas in the images supplied from the computer aren't displayed.	This is caused by the computer being used. Contact the manufacturer of your computer.
Projected images are obscured.	 Match the output resolution of your computer with the resolution of the projector. For the method to change the output resolution of the computer, contact the manufacturer of your computer. (See page 46.) Some images and texts appear obscured during the keystone adjustment. In such cases, use the projector without applying the keystone adjustment. (See page 12.)
Image remains freezing.	When image from VCR is projected, it may remain freezing during speed search. This is not a malfunction.
Noise appears around the image.	In some images such as DVD, noise may appear around the recorded image. In this case, decrease the setting value of OVER SCAN of the SIGNAL menu. (See page 29.)
Projected images are flickering.	 After the Power button or On button on the remote has been pressed, or the Lamp mode setting has changed, images may be flickering until the lamp lights stably. This is an expected behavior. When selecting the input signal, Auto Position, and Color Enhancer, the projected image may be flickering temporarily. This is not a product malfunction.

Others

Problem	Solution		
The exhaust vents emit warm air.	 This air comes out after cooling the inside of the projector. You may feel hot, but this is not a malfunction. 		
The menu can't be used.	 The microcomputers inside the projector may be wrongly operating because of noise. → Press the POWER button to turn off the lamp and wait about 90 seconds. Then unplug the power cord from the outlet, wait at least 10 minutes, and plug the power cord back into the outlet. When the POWER button doesn't function, unplug the power cord from the outlet, wait at least 10 minutes, and then plug the power cord back into the outlet. 		
"TEMPERATURE!!" is displayed.	 This indication appears when the ambient temperature rises high. When the ambient temperature stays high, the lamp goes out. → Eliminate any causes of the rise in the ambient temperature. This indication appears when the air inlet or outlet grille is blocked. When they are kept blocked, the lamp goes out. → Remove the objects blocking the air inlet or outlet grille. 		
The ⊘ mark appears.	 This mark appears when ineffective operation is carried out. This isn't a product malfunction. 		
The remote control doesn't function easily or at all.	 Check that the batteries are loaded in the remote control or the batteries are not weak. (See page 6.) Check that the remote control sensor isn't exposed to direct sunlight or fluorescent light. (See page 9.) Use the remote control within its operation range. (See page 9.) Use the remote control at least 10 cm away from the projector. 		
The buttons on the control panel (except for the POWER button) don't function.	PASSWORD FUNCTION in the FEATURE menu has been set to MENU ACCESS to enable the password lock. → Cancel the password lock or contact the person in charge of management of the projector. (See page 35.)		
Abnormal sound is heard.	Because the color wheel spins at a high speed, metallic sounds may be heard in rare occasions. Such symptom is not a malfunction.		



Troubleshooting (continued)

If the following problem occurs after the lamp is replaced, check the following first.

Problem	Solution	
The projector does not turn on.	 Fit the lamp cover securely. (See pages 36 and 37.) Reset the lamp operating time. (See page 38.) 	
The STATUS indicator blinks.	Reset the lamp operating time. (See page 38.)	

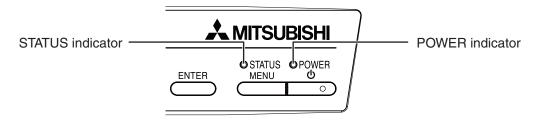


Indicators

This projector has two indicators, each of which shows the operation condition of the projector.

The following offer solutions to possible problems. If these problem persist, turn the projector off and consult

The following offer solutions to possible problems. If these problem persist, turn the projector off and consult your dealer.



Normal condition

POWER	STATUS	CONDITION	NOTE
-`∳-́- Steady red	O Off	Stand-by	
Steady green	○ → - Ò - Blinking green	Lamp stand-by (about 1 minute)	The POWER button cannot be used to switch between on and off.
-\o\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	->-\- Steady green	The power is on. (Normal condition)	

Abnormal condition

POWER	STATUS	CONDITION	POSSIBLE SOLUTION
Steady green or ———————————————————————————————————	○ ⇄ Þ Þ Þ Þ Þ Þ Þ Þ Þ Þ Þ Þ Þ Þ Þ Þ Þ Þ	Abnormal temperature The ventilation grilles are clogged with dust or dirt. The room temperature is high.	 Clean the ventilation grilles. Relocate the projector to a cooler place.
Steady red	○ ⇄ - ˃̣́ọ́́- Blinking green	The protection circuit is working or the lamp is in an abnormal condition.	Wait until the STATUS indicator goes out, then press the POWER button. If the above solution is not effective, replace the lamp.
Steady green	- ↓ - ↓ - ↓ - Blinking green/red	Lamp operation time warning. (Total lamp operation time reached 3750 hours*1 while the power was on.)	Replace the lamp. Change with a new lamp if this problem
Steady red	○ ⇄ — —————————————————————————————————	Lamp operation time warning. (Total lamp operation time reached 3750 hours*1 while the power was off.)	recurs.
-∳- Steady red	-∳- Steady red	Lamp operation time warning. (Total lamp operation time reached 5000 hours*1*2 while the power was off.)	
- →	O Off	The lamp cover isn't closed.	Close the cover correctly.
Blinking green/red	Steady or	Abnormal.	Contact your dealer.

^{*1:} Duration when LAMP MODE of the INSTALLATION menu is set to LOW. When it is set to STANDARD, this duration will be

^{*2:} When LAMP MODE is set to STANDARD, this duration will be shorted up to 3000 hours.

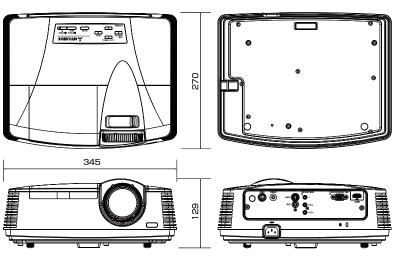


Specifications

The specifications and outside appearance of the projector are subject to change without prior notice.

Туре		DLP™ projector		
Model		HC3800		
Display technology		0.65-inch single chip DMD (aspect ratio 16:9) Pixel: 1920 x 1080 = 2073600 pixels		
Projection lens		F 3.0 - 3.5 f= 20.6 - 30).1 mm	
Light-source lamp		230 W		
Image size (projection	n distance)	50" min. to 300" max. (p	projection distance 1.5 to 9	9.3 m (Wide))
Maximum resolution	Computer signal	Maximum resolution: 1600 x 1200 dots Panel resolution: 1920 x 1080 dots		
	Video signal	NTSC/PAL/SECAM/4.4	3NTSC/PAL-M/PAL-N/PAL	60
	Component signal	480i, 480p, 576i, 576p, Panel resolution: 1920		
Computer input		[Signal type] Analog RGB	[Terminal type] Mini D-SUB 15-pin	[Line] 1
Video input		[Signal type] HDMI Video input S-video input Component video input	[Terminal type] HDMI RCA S t RCA x3 (YC _B C _R /YP _B P _R)	[Line] 1 1 1 1
Control terminal/	SERIAL	RS-232C (Mini DIN 8-pin)		
others TRIGGER		DC 12 V, max. 200 mA (stereo mini jack)		
Operating temperatur	res	+41°F (+5°C) to +95°F	(+35°C)	
Rated voltage		AC100 - 240 V, 50/60 H	lz	
Power consumption		3.3 A		
Dimensions		345 mm (W) x 129 mm (H) x 270 mm (D) * Not including protrusion.		
Weight		3.5 kg		
Others	S-video input	Luminance signal: Vp-p=1.0 V 75 (negative sync) Chrominance signals: Vp-p=0.286 V 75 (burst signal)		
	Video input	Vp-p=1.0 V 75 (negativ	ve sync)	
	Component video input	YC _B C _R : Vp-p=1.0 V 75 (Y) (negative sync) Vp-p=0.7 V 75 (C _B , C _R)		
	Analog input	RGB: Vp-p=0.7 V 75 (negative sync) YCBCR: Vp-p=1.0 V (Y) (negative sync) Vp-p=0.7 V (CB, CR) HD/CS: TTL-level (negative or positive polarity) VD: TTL-level (negative or positive polarity)		
		, ,		

Dimension drawings (unit: mm)



EN-45

Specifications (continued)

Specification of RGB signals in each computer mode of the projector

Signal mode	Resolution (H x V)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Normal mode (H x V)*1	
TV60, 480i (525i)	_	15.73	59.94	1920 x 1080	*2
TV50, 576i (625i)	_	15.63	50.00	1920 x 1080	*2
1080i 60 (1125i 60)	_	33.75	60.00	1920 x 1080	*2
1080i 50 (1125i 50)	_	28.13	50.00	1920 x 1080	*2
480p (525p)	_	31.47	59.94	1920 x 1080	*2
576p (625p)	_	31.25	50.00	1920 x 1080	*2
720p 60 (750p 60)	_	45.00	60.00	1920 x 1080	*2
720p 50 (750p 50)	_	37.50	50.00	1920 x 1080	*2
1080p 60 (1125p 60)	_	67.50	60.00	1920 x 1080	*2
1080p 50 (1125p 50)	_	56.25	50.00	1920 x 1080	*2
1080p 24 (1125p 24)	_	27.00	24.00	1920 x 1080	*2
PC98	640 x 400	24.82	56.42	1728 x 1080	
CGA70	640 x 400	31.47	70.09	1728 x 1080	
VGA60	640 x 480	31.47	59.94	1440 x 1080	*2
VGA72	640 x 480	37.86	72.81	1440 x 1080	
VGA75	640 x 480	37.50	75.00	1440 x 1080	T
VGA85	640 x 480	43.27	85.01	1440 x 1080	٦
SVGA56	800 x 600	35.16	56.25	1440 x 1080	Π.
SVGA60	800 x 600	37.88	60.32	1440 x 1080	*2
SVGA72	800 x 600	48.08	72.19	1440 x 1080	7
SVGA75	800 x 600	46.88	75.00	1440 x 1080	7
SVGA85	800 x 600	53.67	85.06	1440 x 1080	٦
XGA60	1024 x 768	48.36	60.00	1440 x 1080	*2
XGA70	1024 x 768	56.48	70.07	1440 x 1080	7
XGA75	1024 x 768	60.02	75.03	1440 x 1080	7
XGA85	1024 x 768	68.68	85.00	1440 x 1080	
MAC13	640 x 480	35.00	66.67	1440 x 1080	7
MAC16	832 x 624	49.72	74.55	1440 x 1080	\neg
MAC19	1024 x 768	60.24	75.02	1440 x 1080	7
HP75	1024 x 768	62.94	74.92	1440 x 1080	\neg
SXGA60	1280 x 1024	63.98	60.02	1350 x 1080	*2
UXGA60	1600 x 1200	75.00	60.00	1440 x 1080	*2

^{*1:} When ASPECT in the FEATURE menu is set to AUTO.

Important:

- Some computers aren't compatible with the projector.
- The projector's maximum resolution is 1920 x 1080 pixels. It may not display images of higher resolutions than 1920 x 1080 correctly.
- If the resolution and frequency of your computer aren't shown on the table, find the compatible resolution and frequency by changing the resolution of your computer.
- This projector doesn't support 480p signals from video devices having 4 lines (R, G, B, CS*) or having 5 lines (R, G, B, H, V).
 - *: Composite Sync

^{*2:} Available for the signal from the HDMI IN terminal.



Specifications (continued)

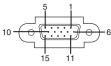
Connectors

SERIAL (Mini DIN 8-pin)



Pin No.	Name	I/O
1	TXD	IN
2	-	-
3	-	-
4	GND	-
5	-	-
6	-	-
7	RXD	OUT
8	_	_

COMPUTER IN/COMPONENT VIDEO IN (Mini D-SUB 15-pin)



15 11		
Pin No.	Spec.	
1	R(RED)/P _R /C _R	
2	G(GREEN)/Y	
3	B(BLUE)/P _B /C _B	
4	GND	
5	GND	
6	GND	
7	GND	
8	GND	
9	DDC 5V	
10	GND	
11	GND	
12	DDC Data	
13	HD/CS	
14	VD	
15	DDC Clock	

HDMI IN (HDMI 19-pin)



PIN No.	Spec.	PIN No.	Spec.
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data2-	13	CEC
4	TMDS Data1+	14	_
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DDC Ground
8	TMDS Data0 Shield	18	+5 V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		

Replacement part (option/not included in the box) Spare lamp VLT-HC3800LP



Mitsubishi Projector Warranty, Sales Support and Service Information

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For Warranty Registration, visit: http://www.mitsubishi-presentations.com under Customer Care

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http://www.mitsubishielectric.ca Information Technologies Group, 4299 14th Avenue, Markham, Ontario L3R 0J2, Canada Sales & Technical Inquiries

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