MITSUBISHI ELECTRIC

DLP™ PROJECTOR

MODEL

FD730U
FD730U-G

User Manual

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

FD730U
FD730U-G

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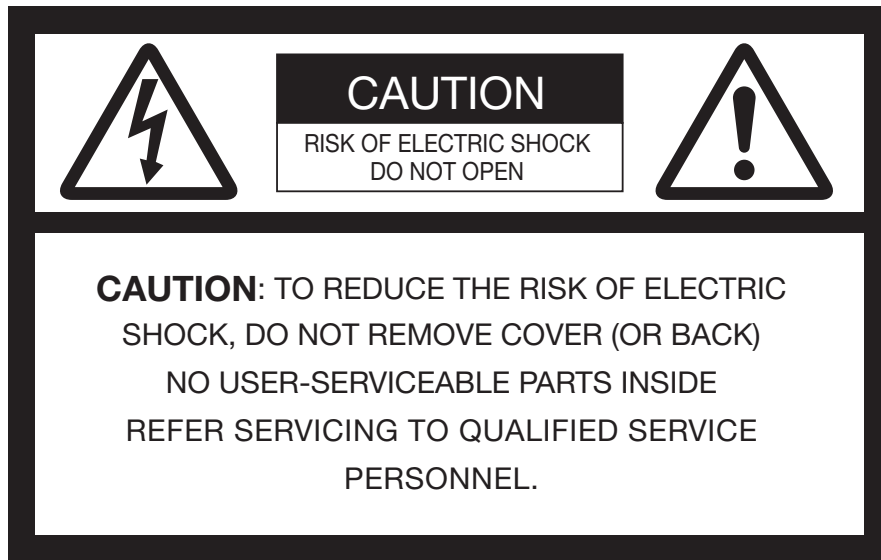
The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

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.

This apparatus must be grounded.

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

CAUTION
The attached power cord is to be used exclusively for this product. Never use it for other products.

Contents

Trademark, Registered trademark
- Macintosh is a registered trademark of Apple Inc.
- 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.
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- The trademark of PJLink is trademark applied for registration or registered trademark in Japan, the United States, and other countries and areas.
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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.

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 may 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 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.

Be sure to unplug the power cord from the wall outlet if the projector is fractured or deformed.
Otherwise, it may result in fire or electric shock. Ask your dealer for repair.

Do not face the projector 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 projection on a leveled and stable surface only.

Do not look into the lens when it is operating.
It may hurt your eyes. Never let children look into the lens when it is on.

Do not put any objects immediately in front of the lens while the lamp is on.
The lens and the objects get hot and can cause fire or breakdown.

Do not unplug the power cord during operation.
It can lead to lamp breakage, fire, electric shock or other trouble.

Do not touch the exhaust vents and bottom plate.
Do not touch them or put other equipment close to the exhaust vents because they become hot during operation. The heated exhaust vents 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 exhaust vents when projector is operating.
Heat, dust, etc. may blow out of them and hurt your eyes.

Do not block the intake and exhaust vents.
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, do not use 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 to prevent the projector from being overheated.
- Do not install the projector at a place that is unstable or subject 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.
- Do not place the projector in the following places. Otherwise, a short circuit, heat generation, or melting of the power cord coating may occur, causing fire, electric shock, product failure, or deformation.
  - Outdoors or non air-conditioned place
  - Place where a gas such as a hydrogen sulfide is generated (i.e. hot spring)
  - Place where there is too much salt such as near the coast
- Be sure to use this projector at an altitude of less than 1500 meters.

Do not place a container containing water or other liquid on the projector.
If water spills on or enters the projector, it may result in fire or electric shock.

Do not put any object that is heavy or larger than the outer frame on the projector.
Otherwise, the object may fall losing its balance and cause injury.

Do not subject the projector to strong shocks or vibrations. Do not handle the projector roughly.
The projector may be damaged, resulting in fire or electric shock.

When removing the lamp from the ceiling-mounted projector
Be sure to use the lamp replacement attachment designed specifically for this projector when replacing the lamp with a new one. Lamp fragments may fall from the inside if the lamp were broken.

Do not put the projector in the soft case with the power cord and cables connected.
The projector, power cord, or cables may be damaged.

Overview
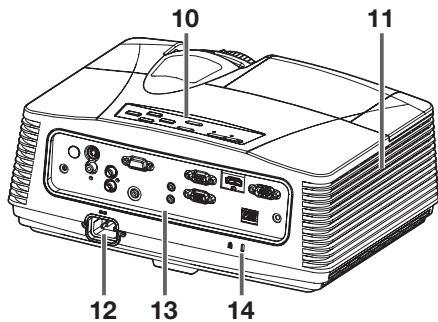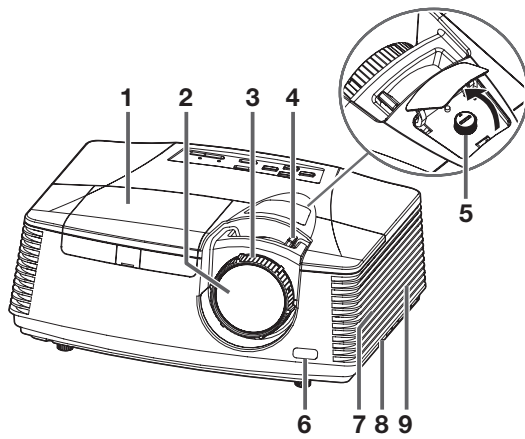
1   Lamp cover
2   Lens
3   FOCUS ring
4   ZOOM ring
5   LENS SHIFT dial
6   Remote control sensor (front)
7   Speaker
8   Lock bar
9   Intake vent
10 Control panel
11 Exhaust vent
12 Power jack
13 Terminal panel
14 Kensington Lock

Caution:
•   Do not replace the lamp immediately after using the projector because the lamp would be extremely hot and it may cause burns.
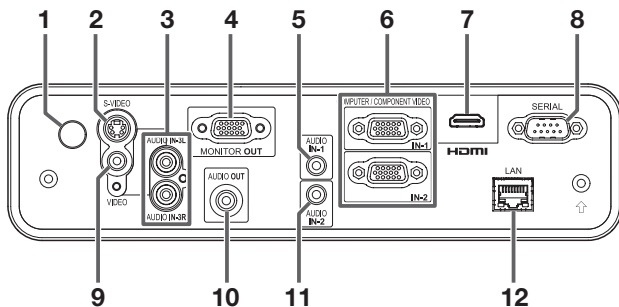
Control panel
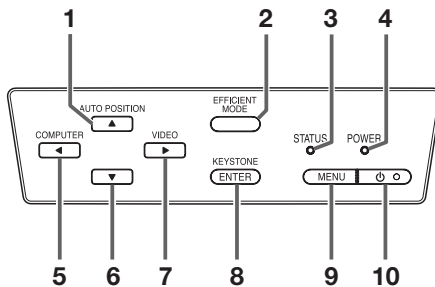
1   AUTO POSITION/▲ button
2   EFFICIENT MODE button
3   STATUS indicator
4   POWER indicator
5   COMPUTER/◀ button
6   ▼ button
7   VIDEO/▶ button
8   KEYSTONE/ENTER button
9   MENU button
10 POWER button (ON/STANDBY)
   The status is changed between ON and STANDBY.

Terminal panel

1   Remote control sensor (rear)
2   S-VIDEO terminal
3   AUDIO IN-3 terminals (L, R)
4   MONITOR OUT terminal (mini D-SUB 15-pin)
5   AUDIO IN-1 terminal (mini jack)
6   COMPUTER/COMPONENT VIDEO IN terminals (1, 2) (mini D-SUB 15-pin)
7   HDMI terminal (HDMI 19-pin)
8   SERIAL (RS-232C) terminal (D-SUB 9-pin)
9   VIDEO terminal
10 AUDIO OUT terminal (mini jack)
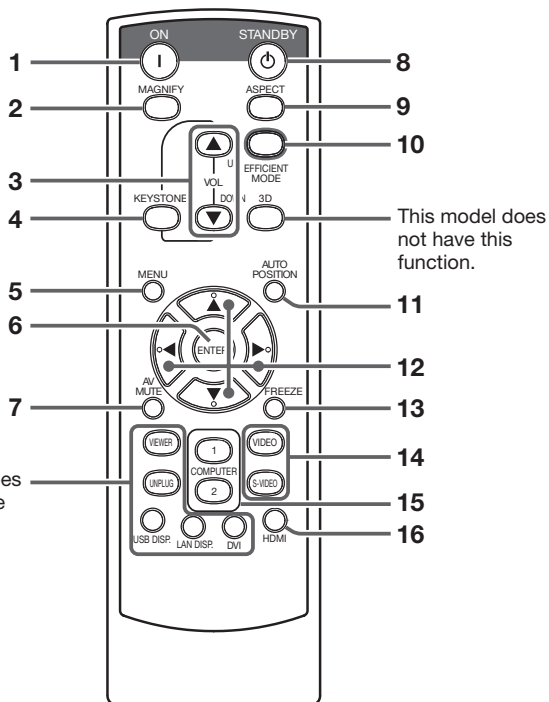11 AUDIO IN-2 terminal (mini jack)
12 LAN terminal (RJ-45)

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Bottom side
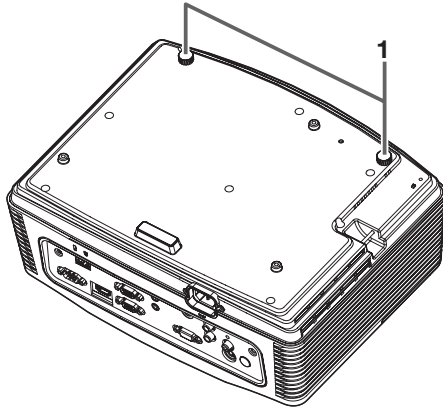
1 Adjustment feet

Remote control

This model does not have this function.

This model does not have these functions.

1 **ON button**
2 **MAGNIFY button**
3 **VOLUME UP, DOWN buttons**
4 **KEYSTONE button**
5 **MENU button**
6 **ENTER button**
7 **AV (Audio/Video) MUTE button**
8 **STANDBY button**
9 **ASPECT button**
10 **EFFICIENT MODE button**
11 **AUTO POSITION button**
12 **▲, ▼, ◀, ▶ buttons**
13 **FREEZE button**
14 **VIDEO, S-VIDEO buttons**
15 **COMPUTER (1, 2) buttons**
16 **HDMI button**

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Remote control

Battery installation
Use two (AA, R6) size batteries.

Inserting the batteries into the remote control
1. Remove the back cover of the remote control by pushing the battery compartment door in the direction of the arrow.
2. Load the batteries making sure that they are positioned correctly (+ to +, and - to -).
   • Load the batteries from - spring side, and make sure to set them tightly.
3. Replace the back cover.
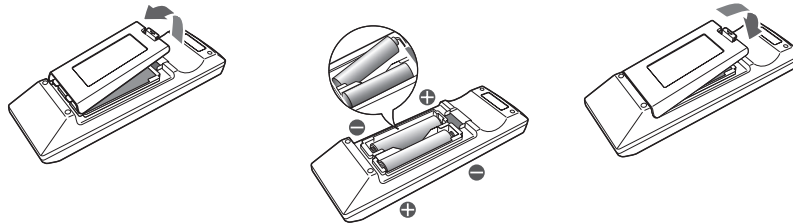
Removing the batteries from the remote control
Remove the back cover of the remote control and take out the batteries.

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.
• Before you dispose of the batteries, insulate them by placing insulation tape on the positive (+) and negative (-) terminals. If you dispose of the batteries together with other conductive objects such as a metal piece, they may short out, resulting in fire or explosion.
• Batteries may explode if misused. Do not recharge, disassemble, or heat the batteries, or put them into fire or water.
• 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. If children swallow the battery, see a doctor immediately.
• 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.
• Do not carry or store the batteries together with metallic ballpoint pens, necklaces, coins, or hairpins. Otherwise, they may short out, causing explosion or liquid leakage and resulting in fire or injury.
• Do not store the batteries where they are exposed to direct sunlight or subjected to high temperature and high humidity. High temperature and high humidity may cause corrosion or liquid leakage.

Operation range (of the remote control)
The maximum operation distance of the remote control is about 10 m (or about 32 feet) when the remote control is pointed at the remote control sensor of the projector. When the remote control is pointed to the screen, the distance from the remote control to the projector via the screen should be 5 m or less. However, the operation distance varies depending on the type of the screen used.
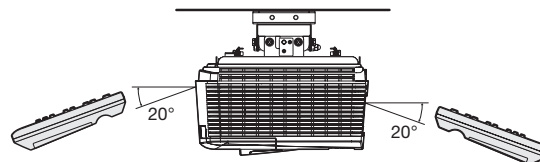
Reception angle (horizontal)

Reception angle (vertical)

20° 20°
10° 10°
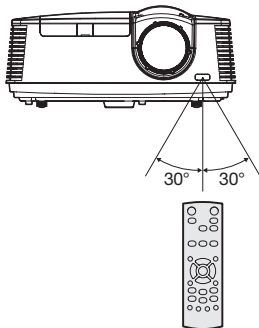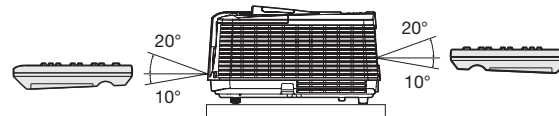
**Reception angle (vertical), ceiling mount**

20° 20°

30° 30°

Important:
• Do not expose the remote control sensor to direct sunlight or fluorescent. Keep a distance at least 2 m (6.5 feet) between the remote control sensor and the fluorescent light to ensure correct operation of the remote control. Inverted fluorescent light, if located near the projector, may interfere the remote control.
• When you use the remote control too close to the remote control sensor, the remote control may not work correctly.

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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.
- The lens shift height shows distances from the factory default position.
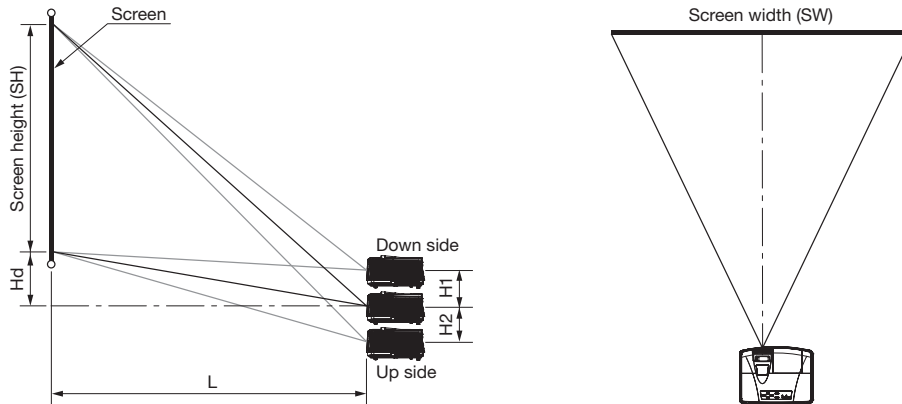
Screen size (16:9)						Hd		Projection distance (L)				Lens shift height			
Diagonal size		Width (SW)		Height (SH)				Shortest (Wide)		Longest (Tele)		H1		H2	
inch	cm	inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm	inch	cm
40	102	35	89	20	50	6.6	17	47	1.2	71	1.8	3	7	2	6
60	152	52	133	29	75	10	25	71	1.8	107	2.7	4	11	4	9
80	203	70	177	39	100	13	34	96	2.4	144	3.6	6	14	5	12
100	254	87	221	49	125	16	42	120	3.1	180	4.6	7	18	6	16
120	305	105	266	59	149	20	50	145	3.7	216	5.5	8	21	7	19
150	381	131	332	74	187	25	63	182	4.6	271	6.9	11	27	9	23
200	508	174	443	98	249	33	84	243	6.2	362	9.2	14	36	12	31
250	635	218	553	123	311	41	105	304	7.7	-	-	18	45	15	39
300	762	261	664	147	374	49	126	365	9.3	-	-	21	54	18	47

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.
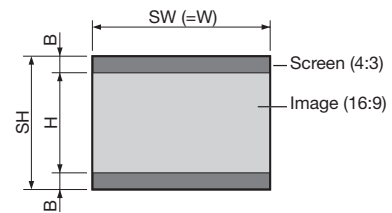
### • When the aspect ratio of the image is 16:9

Screen size (4:3)						Size of the projected image (16:9)						Black space (B)		Hd		Projection distance (L)				Lens shift height			
Diagonal size		Width (SW)		Height (SH)		Diagonal size		Width (W)		Height (H)						Shortest (Wide)		Longest (Tele)		H1		H2	
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm	inch	cm
40	102	32	81	24	61	37	93	32	81	18	46	3	8	6.1	15	43	1.1	65	1.6	3	7	2	6
60	152	48	122	36	91	55	140	48	122	27	69	5	11	9	23	65	1.7	98	2.5	4	10	3	9
80	203	64	163	48	122	73	187	64	163	36	91	6	15	12	31	88	2.2	132	3.3	5	13	4	11
100	254	80	203	60	152	92	233	80	203	45	114	8	19	15	38	110	2.8	165	4.2	6	16	6	14
120	305	96	244	72	183	110	280	96	244	54	137	9	23	18	46	133	3.4	199	5.0	8	20	7	17
150	381	120	305	90	229	138	350	120	305	68	171	11	29	23	58	166	4.2	249	6.3	10	25	8	21
200	508	160	406	120	305	184	466	160	406	90	229	15	38	30	77	223	5.7	332	8.4	13	33	11	29
250	635	200	508	150	381	229	583	200	508	113	286	19	48	38	96	279	7.1	-	-	16	41	14	36
300	762	240	610	180	457	275	699	240	610	135	343	23	57	45	115	335	8.5	-	-	19	49	17	43

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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.
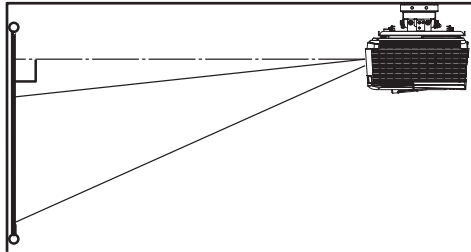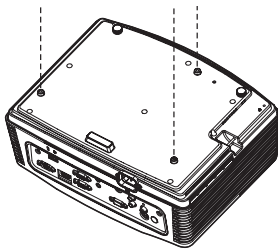

- When using the projector mounted on the ceiling, set IMAGE REVERSE in the INSTALLATION menu to MIRROR INVERT. See page 23.
- When the projector is mounted on the ceiling, images may appear darker than those projected in the case of tabletop mounting. This isn't a product malfunction.

Ceiling mount installation

If you wish to install the projector using a ceiling mount, please use the screw holes as the illustration shows.

Important:
- Screws are not included. Please obtain the appropriate screws for your type of ceiling. (M4 diameter)
- It is recommended that you keep a reasonable space between the bracket and the projector to allow for proper heat distribution.
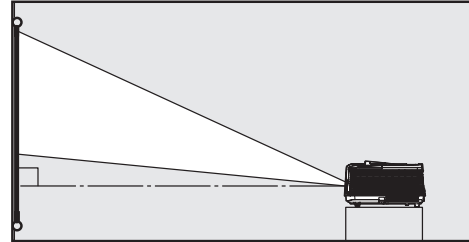

Caution:
- Installation must be done by a qualified professional.
  When the projector is installed on the ceiling using the ceiling mount kit, it is recommended to hold the mount kit and the projector using a metal bar or wire in addition to the mount kit fixing screws to prevent the projector from falling due to an earthquake or other cause. For that purpose, use a metal bar, wire, or screw that bears a load of at least 55 kgf. When using a metal wire, secure one end to a screw hole marked with an arrow on the rear terminal panel and the other end to the mount

kit. (Don't use screw holes without arrow marks.) In this case, make sure that the screw is inserted in the projector at least 5 mm. The length of the screw should be 20 mm or shorter. Also make sure that no electrical current is flowing in the mount kit due to current leakage or other cause.

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 23.

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 intake vents and the exhaust vents 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 or upside-down position.
  - 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).
- Keep foliage plants and pets away from the projector. The temperature around the exhaust vents and that of the cabinet on the top of the exhaust vents become high. Take special care for small children.

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.
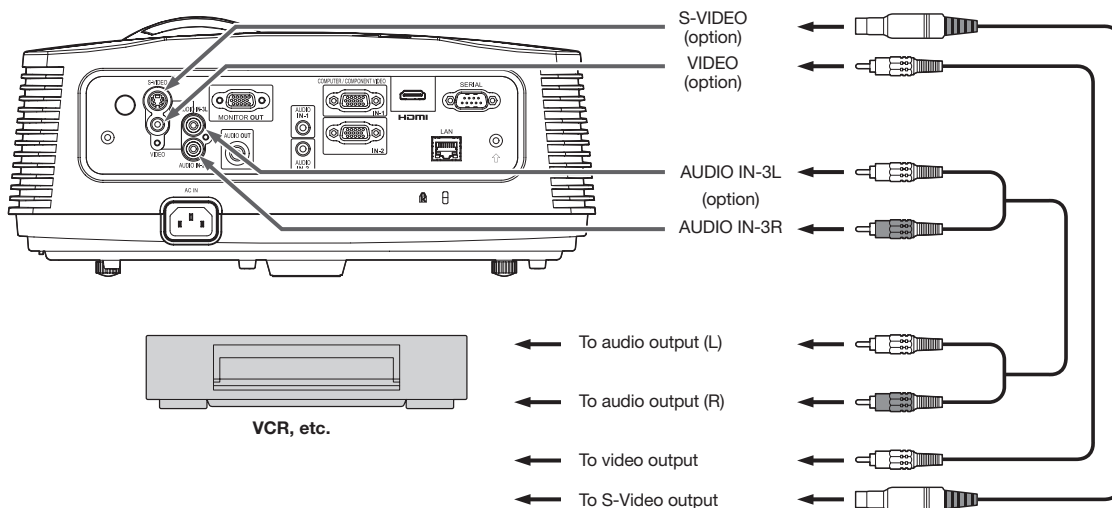
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Basic connections

This projector can be connected with various devices such as a VCR, video camera, videodisc player, and personal computer that have analog RGB output connectors.

Important:
*   Make sure that the connected device is turned off before starting connection.
*   Plug in the power cords of the projector and the connected devices firmly. When unplugging, hold and pull the plug. Do not pull the cord.
*   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.
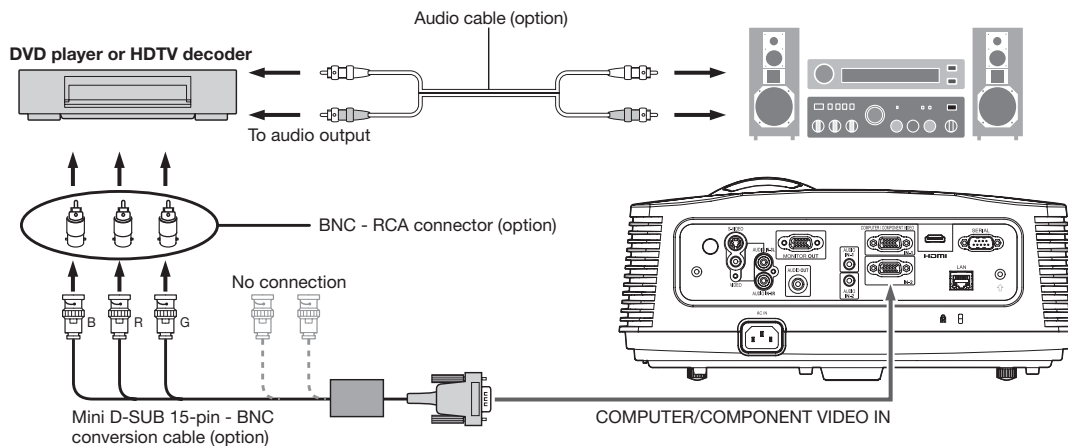
Projector + AV device

S-VIDEO (option)
VIDEO (option)
AUDIO IN-3L (option)
AUDIO IN-3R

VCR, etc.

To audio output (L)
To audio output (R)
To video output
To S-Video output

Important:
*   Match the colors of the video and audio plugs on the Audio cable with those of the terminals.
*   Speaker output is mono.

Projector + DVD player or HDTV decoder
Some DVD players have an output connector for 3-line fitting (Y, C_B, C_R). When connecting such DVD player with this projector, use the COMPUTER/COMPONENT VIDEO IN terminal.


Audio cable (option)

DVD player or HDTV decoder

To audio output

BNC - RCA connector (option)

No connection

B   R   G

Mini D-SUB 15-pin - BNC
conversion cable (option)

COMPUTER/COMPONENT VIDEO IN

Important:
*   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.
*   Use a mini D-SUB 15-pin - BNC conversion cable for connection.
*   Image may not be projected correctly with some DVD players.
*   When connecting a HDTV decoder having RGB output terminals, set COMPUTER INPUT to RGB in the SIGNAL menu.

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Connection (for video equipment having an HDMI terminal)

Equipment having an
HDMI terminal

To HDMI terminal

HDMI

HDMI (with HDMI logo) cable (option)
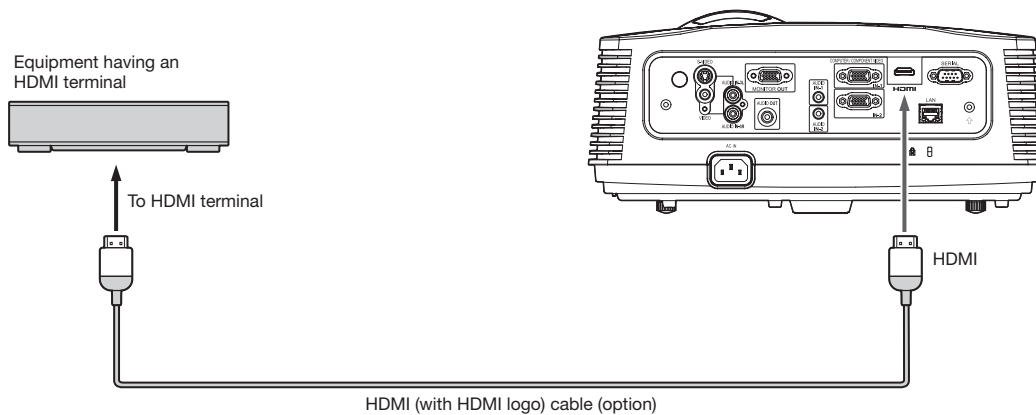
Important:
- Use a commercially available HDMI (with HDMI logo) cable.
- You don't have to connect any cable for audio input. You can input video and audio using an HDMI cable only.
- When HDMI audio isn't output, it may be output by turning off the power of the video equipment with the projector and the video equipment connected to each other and then turning back on the power.
- 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.
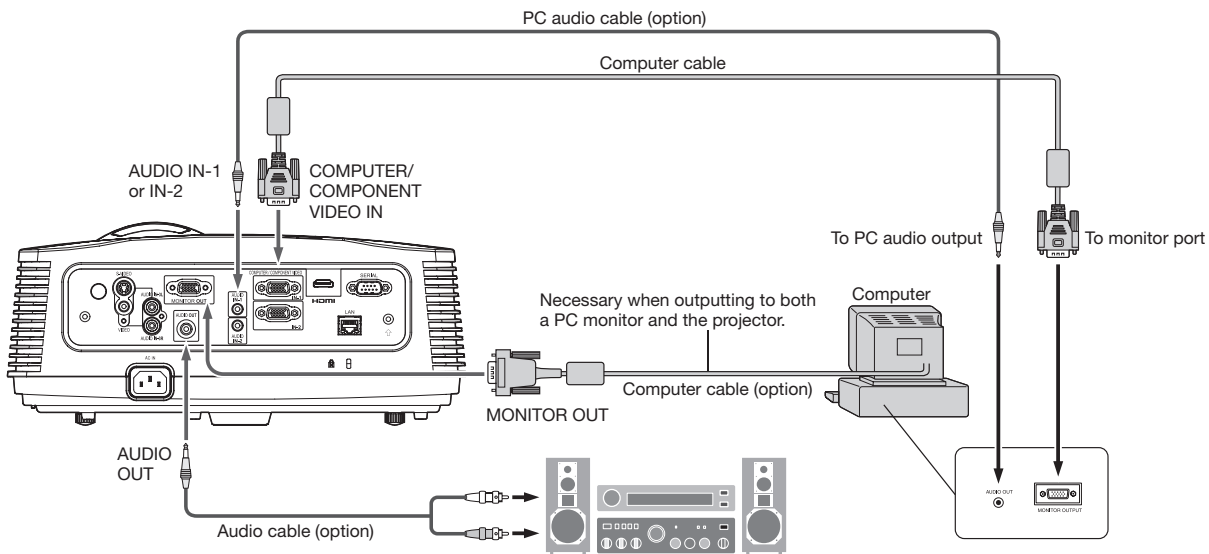
When you connect this projector and a Digital device (such as a DVD player) via the HDMI terminal, black color may appear dark and deep, depending on the type of the connected device.
- This depends on the black level setting of the connected device. There are two kinds of methods to digitally transfer 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.

EN-12

Projector + Computer

For computer with mini D-SUB

PC audio cable (option)

Computer cable

AUDIO IN-1
or IN-2

COMPUTER/
COMPONENT
VIDEO IN

To PC audio output   To monitor port

Necessary when outputting to both
a PC monitor and the projector.

Computer

MONITOR OUT

Computer cable (option)

AUDIO
OUT

Audio cable (option)

AUDIO OUT

MONITOR OUTPUT

For analog connection:

1. Connect one end of the supplied computer cable to the COMPUTER/COMPONENT VIDEO IN terminal (1, 2) of the projector.

2. Connect the other end of the computer cable to the monitor port of the computer.

For monitor connection:
Connect the computer cable from the monitor to the MONITOR OUT terminal of the projector.
- Images may not be displayed correctly depending on the type of the input signal. See the instruction manual of the monitor.
- Signals are coming from the COMPUTER/COMPONENT VIDEO IN-1 terminal of the projector.
- MONITOR OUT is not output during the STANDBY state.
- When signals are coming from both COMPUTER/COMPONENT VIDEO IN terminals (1, 2), images are projected from the terminal (1 or 2) currently or last selected in the projector's menu.

Important:
- When you use a longer computer cable instead of the provided cable, the image may not be projected correctly.
- Some computers require additional connectors or analog RGB output adapters to be connected with this projector. Contact your dealer for further information.
- This projector uses stereo mini jack for its audio input. Check the type of the audio output terminal of the connected computer and prepare a proper cable for connection. Some computers don't have the audio output terminal.
- Speaker output is mono.
- When the audio cable is connected to the AUDIO OUT terminal, the speaker output is muted.

For Macintosh
- If your Macintosh has no video port, a monitor output adapter is required. Contact your dealer for further information.
- Some Macintoshes require a MAC adapter for the computer cable for connection with this projector. Contact your dealer for further information.

About DDC
The COMPUTER/COMPONENT VIDEO IN-1 terminal of this projector complies with the DDC 1/2B 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.

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Preparation

Preparation for projection

1. Attach the provided power cord to the projector.
2. Plug the power cord in the wall outlet.
3. Remove the lens cap.

Warning:
- Do not look into the lens directly when the projector is on.
- The lens cap is for protecting the lens. If you leave the lens cap on the lens with the projector turned on, it may be deformed because of heat build-up. Remove the lens cap when you turn on the projector.
- One of power cords for the U.S., Europe, U.K., Australia, and South Korea is provided appropriately.
- This projector uses the power plug of three-pin grounding type. Do not remove 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.
- In case that the power cord for the U.S. is provided with this projector, never connect this cord to any outlet or power supply using other voltages or frequencies than rated. If you want to 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.
- When you move the projector, turn off the power, unplug the power cord from the wall outlet, and then remove the connected cords. Otherwise, the power cord may be damaged, resulting in fire or electric shock.
- If dust or metallic substance is on or around the pins of the power plug, unplug the power cord and clean it using a dry cloth. If you continue to use the projector without cleaning, it may result in fire or electric shock. Clean the power plug periodically at least once a year.
- Be sure to unplug the power cord from the wall outlet if the projector will not be used for a long period of time. Otherwise, it may cause fire.

Adjusting the position of the projected image

To adjust the position of the projected image on the screen, use the LENS SHIFT dial.

1. Rotate the LENS SHIFT dial inside the top cover of the projector to adjust the image position.
   - Rotating the dial clockwise (or counterclockwise for a ceiling-mount projector) moves the image up.
   - Rotating the dial counterclockwise (or clockwise for a ceiling-mount projector) moves the image down.

- Be careful not to be caught in the opening in the lens while the lens is moving.
- While the lens shift is working, the screen may flicker.
- Projected images may become distorted, have decreased resolution, or have shadows at their corners if they are positioned close to the top or bottom.

Adjustment of the projection angle

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.

Using the adjustment feet (front)

1. Tilt up the projector to the appropriate angle.
2. Rotate the adjustment feet (front) for fine adjustment.
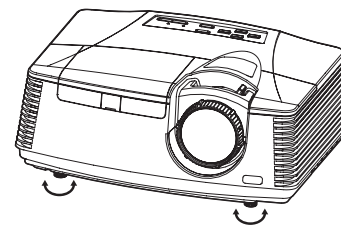
Important:
- Install the screen on a flat wall at 90 degrees to the floor.
- Slanting the projector more than ±10° (right and left) or ±15° (front and rear) may cause trouble or explosion of the lamp. You can tilt the projector up to 8 degrees using the adjustment feet only.
- Images may not be projected in a shape of a regular rectangle or with its aspect ratio 4:3, depending on the installation conditions of the projector and the screen.

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When projected images are distorted to a trapezoid

To correct vertical keystone distortion, press the KEYSTONE button on the projector or the remote control to display KEYSTONE, and adjust the image by pressing the ▲, ▼ button (or VOLUME ▲, ▼ button on the remote control).

In the following cases:

Press the ▼ button.   Press the ▲ button.

- In the keystone adjustment, you can obtain an optimum result when the LENS SHIFT dial is at the factory default position. (See page 9.)
- You can correct the vertical keystones. However, their adjustment ranges are limited in such correction.

Important:
- 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.
- Noise may appear on the screen during the keystone adjustment because of the type of the video signal being projected and the setting values of the keystone adjustment. In such cases, set the keystone adjustment values in the range where the image is displayed without noise.
- When the keystone adjustment is carried out, the image may not be displayed correctly because of the type of input signal.

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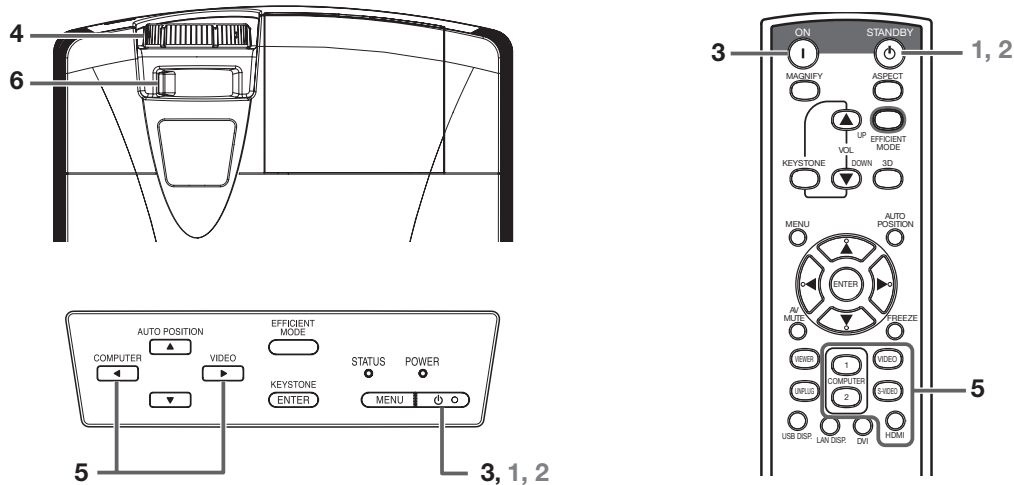
Power-on

1. Turn on the device connected to the projector first.
2. Plug the power cord in the wall outlet.
   - The POWER indicator lights up.
   - If the power cord is unplugged from the wall outlet before the projector is cooled down completely after use, the fans may start rotating when the power cord is plugged in next time and the POWER button may not function. In this case, wait for the fans to stop and press the POWER button to light the indicator.
3. Press the POWER button on the control panel or the ON button on the remote control.
   - It may take about one minute for the lamp to light up.
   - The lamp occasionally fails to light up. Wait a few minutes and try to light the lamp again.
   - After the POWER button is pressed, the image may flicker before the lamp becomes stable. This is not a product malfunction.
   - Regardless of the setting of LAMP MODE in the QUICK MENU or the INSTALLATION menu or the EFFICIENT MODE menu, the STANDARD lamp mode is activated by default whenever the projector is turned on. The LAMP MODE is set to either STANDARD or LOW depending on the setting last selected, and you cannot switch the LAMP MODE in about one minute after the lamp is on.

Indicator Condition	STATUS	POWER
Stand-by	-	Red
When the lamp is on.	Green	Green

Important:
- If the lamp exceptionally turned off due to the power interruption or voltage drop, it can happen that the lamp does not turn on even if you switch again the power supply on. In that case, please pull the electric cord out of the consent and put it again in the consent about 10 minutes later.

- Do not cover the lens with the lens cap while the lamp is on.
- 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 39 and 43.)
- Images may not be projected with good quality in an extremely hot or cold environment. (This is not a product malfunction.)
- 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.
4. Adjust the focus by turning the focus ring.
   - You are recommended to adjust the focus at the screen center.
5. Choose your desired external input source using the COMPUTER, VIDEO or HDMI button.
   - The input source is switched between COMPUTER1, COMPUTER2, and HDMI at every press of the COMPUTER button on the control panel.
   - The input source is switched between VIDEO and S-VIDEO at every press of the VIDEO button on the control panel.
   - When pressing the COMPUTER (1 or 2), HDMI, VIDEO, or SVIDEO button on the remote control, the input source switches directly as the button pressed.
   - The projector automatically selects the appropriate signal format. The selected signal format is displayed on the screen.
   - 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.

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- To avoid permanently imprinting a fixed image onto your projector, please do not display the same stationary images for long period.

6. Adjust the image size by turning the zoom ring.

7. Adjust the vertical position of the displayed image by turning the LENS SHIFT dial.

If necessary, adjust the focus and zoom again.

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.

Power-off

Use the following procedure to turn off the projector. The lamp may deteriorate if the projector is powered off and on repeatedly within 30 minutes after the lamp is lighted.

1. Press the POWER button on the control panel or the STANDBY button on the remote control.
   - The message "POWER OFF? YES : PRESS AGAIN" appears on the screen.
   - To cancel, press any button except the POWER button. (Some buttons on the remote control don't function for cancel.)

2. Press the POWER button on the control panel or the STANDBY button on the remote control within 10 seconds again.
   - The lamp will go out and the STATUS indicator will start blinking.

3. Wait about 90 seconds for the STATUS indicator to be turned off.

4. Unplug the power cord.
   - The POWER indicator will go out.
   - If the power cord should be unplugged accidentally while either the STATUS indicator is blinking 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 (or ON button). If the lamp doesn't light up immediately, repeat pressing the POWER button (or ON button) two or three times. If it should still fail to light up, replace the lamp.

Important:
- When storing the projector in the carrying case, the lens should face up.
  Before carrying the projector, rotate the focus ring and zoom ring to adjust the lens to the shortest. This prevents the possible damages of the lens.

Direct Power OFF

You can turn off this projector just by unplugging the power cord without pressing the POWER button.
- Don't shut down the projector while the STATUS indicator is blinking after the lamp lights up because the lamp's life may be shortened.
- Don't turn the projector back on right after shutting it down because the lamp's life may be shortened.

(Wait about 10 minutes before turning the projector back on.)
- Before shutting down the projector, be sure to close the menu screen. If you shut down the projector without closing the menu, the setting data of the menu may not be saved.
- If you shut down the projector while controlling the projector using the network function, the application software such as ProjectorView may fail. For details, see "User Manual of LAN Control Utility" contained in the CD-ROM.

AUTO POSITION button

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

1. Project a bright image containing as many texts and characters as possible.

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.
   - When you press the AUTO POSITION button while a signal from a video device (or signal marked with *2 on page 46) is being input, a window to select either of the following two adjustment modes is displayed.
     - AUTO ADJUST:
       Suitable for signals supplied from a computer.
     - VIDEO SIGNAL:
       Suitable for signals supplied from a video device such as DVD. (When you select this mode, the adjustment using the RESOLUTION (MEMORIZE) menu (page 25) becomes unavailable.)
     Select an appropriate mode using the ◄ or ► button and then press the ENTER button.

- If the projected image is still displaced even after pressing the AUTO POSITION button several times, refer to the procedure to adjust computer images. (See pages 28 and 29.)
- When you carry out this procedure with a dark image, the image may be displaced.

Volume from the speaker

Press the VOLUME ▲ or ▼ button to change the volume from the speaker.
The volume control bar will appear on the screen.

```
┌─────────────────────┐
│  VOLUME    10        │
│ ▮▶│━━━━━┃━━━━│(((▶│   │
└─────────────────────┘
```

- The volume control bar will disappear about 10 seconds after the VOLUME button is released.
- The VOLUME buttons don't function while the menu is being displayed.
- When a high-level audio signal, such as a DVD audio signal, is supplied to the AUDIO IN terminal, the output from the speaker may be distorted.

AV mute

The video and audio signals are temporarily muted when the AV MUTE button is pressed. To cancel muting, press the AV MUTE button again.

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.

With the remote control:

1. Press the ASPECT button.
   - Every time the ASPECT button is pressed, the aspect mode changes from AUTO to 16:9, to NATIVE, and back to AUTO.

With the FEATURE menu:

(See page 22 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 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. Consult your dealer in this case.

Caution:
- The lamp can't be lit again for one minute after turned off for safety purpose. It will take another one 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 exhaust fans rotate faster as the temperature around the projector rises.
- When the temperature around the projector rises high, the sign "TEMPERATURE!!" blinks red on the screen. If the temperature stays high, the lamp will go out automatically.

Important:
- Do not display a still picture for a long time because the afterimages may persist on the screen.

Wall Screen

This function is to reproduce natural color tones when images are projected directly onto a screen or wall surface. You can select from BEIGE, LIGHT BLUE, LIGHT GREEN, PINK, BLACK BOARD, WHITE BOARD, and OFF, to match the color of the screen or wall to be used for projection.

1. Display the INSTALLATION menu. (See page 23 for more details.)
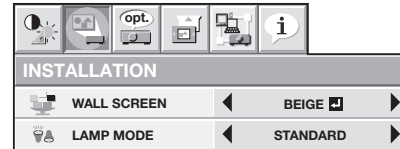
2. Press the ▲ or ▼ button to select WALL SCREEN.
3. Press the ◄ or ► button to select the color closest to that of the screen on which images are projected.
   - When the GAMMA MODE setting is changed, images may not be displayed correctly.
   - When OFF or BLACK BOARD/WHITE BOARD is selected, the density cannot be adjusted.
   - When WHITE BOARD is selected, BrilliantColor™ in the COLOR ENHANCER menu of the IMAGE menu cannot be used. Additionally, THEATER in the COLOR ENHANCER menu of the IMAGE menu has no effect and is automatically canceled when WHITE BOARD is selected.
4. Press the ENTER button.

5. Press the ◄ or ► button to adjust the density of the selected color.

When connecting to a laptop computer:

When this projector is connected to a laptop computer, there may be times when images may not be projected. When it occurs, set the computer so that it can output signals externally. The procedure varies across computers in use. See the instruction manual of your computer.
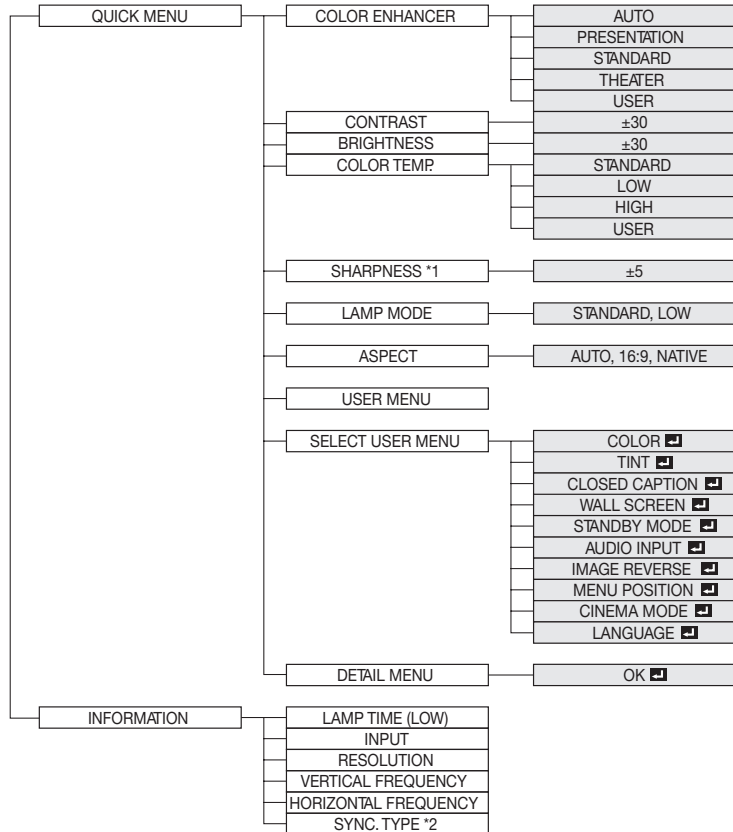
Menu operation

As one of the two types of MENU display, following QUICK MENU appears on the screen when pressing MENU button on the remote control. In addition, DETAIL MENU (See page 21) appears when selecting DETAIL MENU in this MENU and pressing ENTER button.

- Comparing QUICK MENU with DETAIL MENU, if the contents in those two menus are same each other, the functions in those two menus are same as well.
- To close QUICK MENU or DETAIL MENU, press MENU button when MENU is displayed.

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

QUICK MENU		
COLOR ENHANCER	AUTO	
	PRESENTATION	
	STANDARD	
	THEATER	
	USER	
CONTRAST	±30	
BRIGHTNESS	±30	
COLOR TEMP.	STANDARD	
	LOW	
	HIGH	
	USER	
SHARPNESS *1	±5	
LAMP MODE	STANDARD, LOW	
ASPECT	AUTO, 16:9, NATIVE	
USER MENU		
SELECT USER MENU	COLOR ↵	
	TINT ↵	
	CLOSED CAPTION ↵	
	WALL SCREEN ↵	
	STANDBY MODE ↵	
	AUDIO INPUT ↵	
	IMAGE REVERSE ↵	
	MENU POSITION ↵	
	CINEMA MODE ↵	
	LANGUAGE ↵	
DETAIL MENU	OK ↵	
INFORMATION	LAMP TIME (LOW)	
	INPUT	
	RESOLUTION	
	VERTICAL FREQUENCY	
	HORIZONTAL FREQUENCY	
	SYNC. TYPE *2	

*1 Not available with certain signals
*2 Not available when the input signal is from the VIDEO IN or S-VIDEO IN terminal.

QUICK MENU Basic operation
Several settings can be adjusted using the menu.
Example : Contrast setting

1. Press the MENU button.

QUICK MENU

2. **Press the ENTER button (or ▼ button).**

QUICK MENU

COLOR ENHANCER ◄ AUTO ►

3. Press the ▲ or ▼ button to select CONTRAST.

CONTRAST ◄ 0 ►

4. Press the ◄ or ► button to adjust the contrast.

CONTRAST ◄ +10 ►

5. Exit the menu by pressing the MENU button several times.

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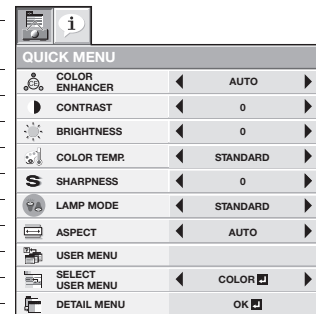- After selecting the items marked with ↵ , press the ENTER button.

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Menu Options
Set the following options provided in the respective menus.

1. QUICK MENU
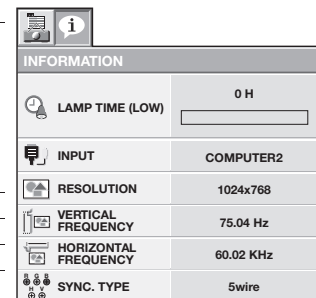
Menu option	Setting	Feature description
COLOR ENHANCER	AUTO	Automatically sets an optimal color balance based on the input signal. Use this setting for most cases.
	PRESENTATION	Makes projected images bright and crisp.
	STANDARD	Makes projected images look natural.
	THEATER	Makes projected images soft and smooth. Best suited for movies.
	USER	Reflected by the value set in IMAGE menu. (See page 27.)
CONTRAST	±30	Adjusts the contrast of projected images. (See page 27.)
BRIGHTNESS	±30	Adjusts the brightness of projected images. (See page 27.)
COLOR TEMP.	4 options	Adjusts the color temperature. (See page 27.)
SHARPNESS	±5	Adjusts the sharpness of projected images. (See page 27.)
LAMP MODE	STANDARD	Select this setting when you want to view images in a well-lit room.
	LOW	Select this setting when you want to view images at a moderate light intensity. The operating sound is consequently reduced, and the lamp lifetime becomes longer. • When this mode is switched, projected images may flicker. • If this mode is frequently switched, the lamp may be deteriorated.
ASPECT	AUTO	Select to change the aspect ratio automatically depending on the input signal. (Select this option for normal use.)
	16:9	Select to project images in full size (1920 x 1080 pixels) irrespective of type of input signal.
	NATIVE	Select to project images in their original size as input.
USER MENU		Displays the menu item selected in SELECT USER MENU.
SELECT USER MENU		Select the item to display in USER MENU.
DETAIL MENU		Moves to DETAIL MENU.

QUICK MENU
- COLOR ENHANCER ◄ AUTO ►
- CONTRAST ◄ 0 ►
- BRIGHTNESS ◄ 0 ►
- COLOR TEMP. ◄ STANDARD ►
- SHARPNESS ◄ 0 ►
- LAMP MODE ◄ STANDARD ►
- ASPECT ◄ AUTO ►
- USER MENU
- SELECT USER MENU ◄ COLOR ►
- DETAIL MENU OK

•	You cannot adjust COLOR TEMP. when WALL SCREEN in the INSTALLATION menu is set to other than OFF.

•	When COLOR ENHANCER is switched, projected images may be distorted.

•	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.
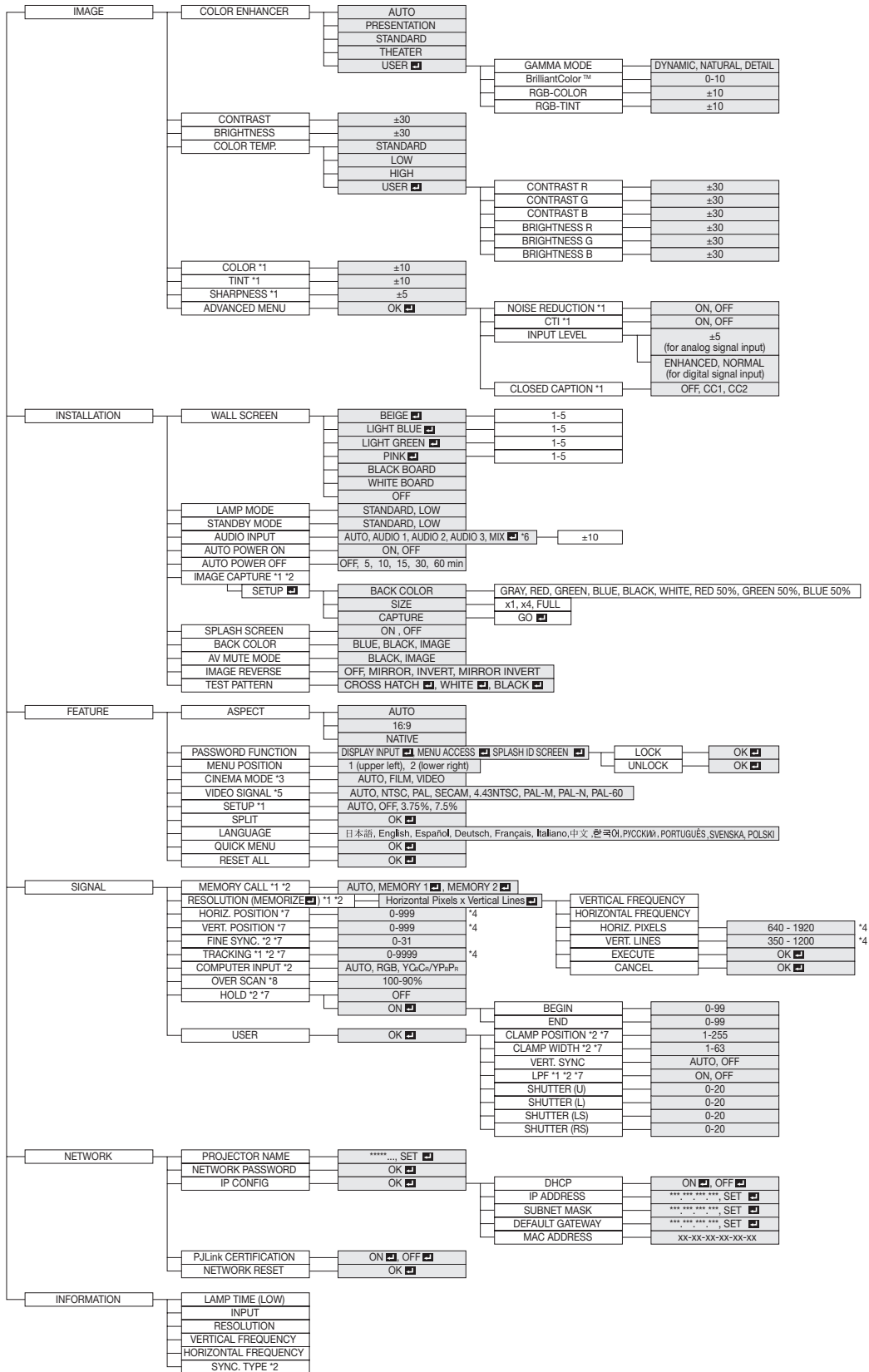
2. INFORMATION menu

Menu option	Feature description
LAMP TIME (LOW)	This menu shows a lamp operating time (hour) calculated assuming that LAMP MODE is LOW. • When the LAMP MODE is STANDARD, this menu shows a longer lamp operating time than the actual time. (See page 38 for the interval of lamp replacement.) • When the lamp operating time is 0 to 10 hours, "0H" is displayed. When the lamp operating time exceeds 10 hours, the actual hours are displayed. • When the lamp operating time reaches 3750 hours, the bar turns yellow. When it reaches 4750 hours, the bar turns red. (The lamp lifetime is 5000 hours.)
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 FRE-QUENCY	Indicates the horizontal frequency of the currently projected video signal.
SYNC. TYPE	Indicates the type of the sync signal for the currently projected video signal.

INFORMATION
- LAMP TIME (LOW) — 0 H
- INPUT — COMPUTER2
- RESOLUTION — 1024x768
- VERTICAL FREQUENCY — 75.04 Hz
- HORIZONTAL FREQUENCY — 60.02 KHz
- SYNC. TYPE — 5wire

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DETAIL MENU

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

IMAGE

- COLOR ENHANCER
  - AUTO
  - PRESENTATION
  - STANDARD
  - THEATER
  - USER ↵
    - GAMMA MODE — DYNAMIC, NATURAL, DETAIL
    - BrilliantColor ™ — 0-10
    - RGB-COLOR — ±10
    - RGB-TINT — ±10
- CONTRAST — ±30
- BRIGHTNESS — ±30
- COLOR TEMP.
  - STANDARD
  - LOW
  - HIGH
  - USER ↵
    - CONTRAST R — ±30
    - CONTRAST G — ±30
    - CONTRAST B — ±30
    - BRIGHTNESS R — ±30
    - BRIGHTNESS G — ±30
    - BRIGHTNESS B — ±30
- COLOR *1 — ±10
- TINT *1 — ±10
- SHARPNESS *1 — ±5
- ADVANCED MENU — OK ↵
  - NOISE REDUCTION *1 — ON, OFF
  - CTI *1 — ON, OFF
  - INPUT LEVEL — ±5 (for analog signal input) / ENHANCED, NORMAL (for digital signal input)
  - CLOSED CAPTION *1 — OFF, CC1, CC2

INSTALLATION

- WALL SCREEN
  - BEIGE ↵ — 1-5
  - LIGHT BLUE ↵ — 1-5
  - LIGHT GREEN ↵ — 1-5
  - PINK ↵ — 1-5
  - BLACK BOARD
  - WHITE BOARD
  - OFF
- LAMP MODE — STANDARD, LOW
- STANDBY MODE — STANDARD, LOW
- AUDIO INPUT — AUTO, AUDIO 1, AUDIO 2, AUDIO 3, MIX ↵ *6 — ±10
- AUTO POWER ON — ON, OFF
- AUTO POWER OFF — OFF, 5, 10, 15, 30, 60 min
- IMAGE CAPTURE *1 *2
  - SETUP ↵
    - BACK COLOR — GRAY, RED, GREEN, BLUE, BLACK, WHITE, RED 50%, GREEN 50%, BLUE 50%
    - SIZE — x1, x4, FULL
    - CAPTURE — GO ↵
- SPLASH SCREEN — ON, OFF
- BACK COLOR — BLUE, BLACK, IMAGE
- AV MUTE MODE — BLACK, IMAGE
- IMAGE REVERSE — OFF, MIRROR, INVERT, MIRROR INVERT
- TEST PATTERN — CROSS HATCH ↵, WHITE ↵, BLACK ↵

FEATURE

- ASPECT
  - AUTO
  - 16:9
  - NATIVE
- PASSWORD FUNCTION — DISPLAY INPUT ↵ MENU ACCESS ↵ SPLASH ID SCREEN ↵
  - LOCK — OK ↵
  - UNLOCK — OK ↵
- MENU POSITION — 1 (upper left), 2 (lower right)
- CINEMA MODE *3 — AUTO, FILM, VIDEO
- VIDEO SIGNAL *5 — AUTO, NTSC, PAL, SECAM, 4.43NTSC, PAL-M, PAL-N, PAL-60
- SETUP *1 — AUTO, OFF, 3.75%, 7.5%
- SPLIT — OK ↵
- LANGUAGE — 日本語, English, Español, Deutsch, Français, Italiano, 中文, 한국어, РУССКИЙ, PORTUGUÊS, SVENSKA, POLSKI
- QUICK MENU — OK ↵
- RESET ALL — OK ↵

SIGNAL

- MEMORY CALL *1 *2 — AUTO, MEMORY 1 ↵, MEMORY 2 ↵
- RESOLUTION (MEMORIZE ↵) *1 *2 — Horizontal Pixels x Vertical Lines ↵
  - VERTICAL FREQUENCY
  - HORIZONTAL FREQUENCY
  - HORIZ. PIXELS — 640 - 1920 *4
  - VERT. LINES — 350 - 1200 *4
  - EXECUTE — OK ↵
  - CANCEL — OK ↵
- HORIZ. POSITION *7 — 0-999 *4
- VERT. POSITION *7 — 0-999 *4
- FINE SYNC. *2 *7 — 0-31
- TRACKING *1 *2 *7 — 0-9999 *4
- COMPUTER INPUT *2 — AUTO, RGB, YCₒCᵣ/YPₐPᵣ
- OVER SCAN *8 — 100-90%
- HOLD *2 *7 — OFF / ON ↵
  - USER — OK ↵
    - BEGIN — 0-99
    - END — 0-99
    - CLAMP POSITION *2 *7 — 1-255
    - CLAMP WIDTH *2 *7 — 1-63
    - VERT. SYNC — AUTO, OFF
    - LPF *1 *2 *7 — ON, OFF
    - SHUTTER (U) — 0-20
    - SHUTTER (L) — 0-20
    - SHUTTER (LS) — 0-20
    - SHUTTER (RS) — 0-20

NETWORK

- PROJECTOR NAME — *****..., SET ↵
- NETWORK PASSWORD — OK ↵
- IP CONFIG — OK ↵
  - DHCP — ON ↵, OFF ↵
  - IP ADDRESS — ***.***.***.***, SET ↵
  - SUBNET MASK — ***.***.***.***, SET ↵
  - DEFAULT GATEWAY — ***.***.***.***, SET ↵
  - MAC ADDRESS — xx-xx-xx-xx-xx-xx
- PJLink CERTIFICATION — ON ↵, OFF ↵
- NETWORK RESET — OK ↵

INFORMATION

- LAMP TIME (LOW)
- INPUT
- RESOLUTION
- VERTICAL FREQUENCY
- HORIZONTAL FREQUENCY
- SYNC. TYPE *2

*1 Not available with certain signals.
*2 Not available when the input signal is from the VIDEO IN or S-VIDEO IN terminal.
*3 Available only when the input signal is TV60, TV50, 480i, 576i or 1080p.
*4 The range that can be specified varies across input signals.
*5 Available only when the input signal is from the VIDEO IN or S-VIDEO IN terminal.
*6 AUDIO 1, AUDIO 2, AUDIO 3, and MIX ↵ cannot be selected when the Input Source is HDMI input.
*7 Not available when the source is HDMI.
*8 Not available when ASPECT is set to NATIVE.

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Basic operation

Several settings can be adjusted using the menu.

Example : Auto power off time setting

1. Press the MENU button.
2. Select the DETAIL MENU and press the ENTER button (or ▼ button).

IMAGE

3. Press the ◄ or ► button to select INSTALLATION.

INSTALLATION

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

INSTALLATION

| WALL SCREEN | ◄ | BEIGE ◄┘ | ► |

5. Press the ▲ or ▼ button to select AUTO POWER OFF.

| AUTO POWER ON | ◄ | OFF | ► |
| AUTO POWER OFF | ◄ | OFF | ► |

6. Press the ◄ or ► button to adjust the auto power off time.

| AUTO POWER ON | ◄ | OFF | ► |
| AUTO POWER OFF | ◄ | 30min | ► |

7. Exit the menu by pressing the MENU button several times.

Important:
- When the 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.

Menu Options

Set the following options provided in the respective menus.

1. IMAGE menu

Menu option		Setting	Feature description
COLOR ENHANCER	AUTO		Automatically sets an optimal color balance based on the input signal. Use this setting for most cases.
	PRESENTATION		Makes projected images bright and crisp.
	STANDARD		Makes projected images look natural.
	THEATER		Makes projected images soft and smooth. Best suited for movies.
	USER ◄┘		Adjusts the gamma curve, color intensity, or balance. (See page 27.)
CONTRAST	±30		Adjusts the contrast of projected images. (See page 27.)
BRIGHTNESS	±30		Adjusts the brightness of projected images. (See page 27.)
COLOR TEMP.	4 options		Adjusts the color temperature. (See page 27.)
COLOR	±10		Adjusts the color tone of projected images. (See page 27.) You cannot select this setting when the COMPUTER 1 or COMPUTER 2 or HDMI is selected as the input source.
TINT	±10		Adjusts the color tint of projected images. (See page 27.) You can select this setting only when NTSC is selected as the input signal.
SHARPNESS	±5		Adjusts the sharpness of projected images. (See page 27.)
ADVANCED MENU	OK ◄┘		
NOISE REDUCTION	ON/OFF		Reduces noise of projected images when the input signal is noisy.
CTI	ON/OFF		Corrects smeared color borders.
INPUT LEVEL	±5		For analog signal input: The input level of video signal differs among devices to be connected. High input level causes solid white in displayed image and low input level causes displayed image to get dark. Use this menu to adjust the input level of analog video signal.
	ENHANCED/NORMAL		For digital signal input: When a digital signal is input, ENHANCED and NORMAL are switchable. (See page 12.)
CLOSED CAPTION	OFF		Does not display captions.
	CC1/CC2		Displays captions.

IMAGE

	COLOR ENHANCER	◄	AUTO	►
	CONTRAST	◄	0	►
	BRIGHTNESS	◄	0	►
	COLOR TEMP.	◄	STANDARD	►
	COLOR	◄	0	►
	TINT	◄	0	►
	SHARPNESS	◄	0	►
	ADVANCED MENU		OK ◄┘	

IMAGE
ADVANCED MENU

	NOISE REDUCTION	◄	ON	►
	CTI	◄	ON	►
	INPUT LEVEL	◄	0	►
	CLOSED CAPTION	◄	OFF	►
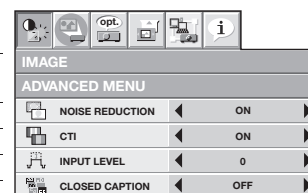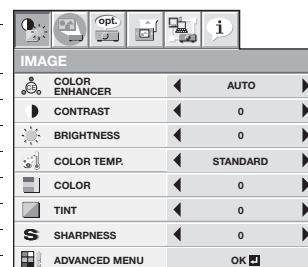
IMAGE ADVANCED menu

- You cannot adjust TINT when the TV50 (PAL, SECAM) signal is inputted.
- You cannot adjust COLOR TEMP. when WALL SCREEN in the INSTALLATION menu is set to other than OFF.
- When COMPUTER 1 or COMPUTER 2 or HDMI is selected, TINT do not work.
- When COLOR ENHANCER is switched, projected images may be distorted.
- Captions are not displayed while information about the menu, volume setting, or input signal selection is being displayed on the screen.
- The closed caption function displays text information included in the NTSC signal, which is mainly used for TV broadcasting in North America.
- INPUT LEVEL is unavailable when the digital signal is supplied from the YC_BC_R/YP_BP_R terminal of the connected device.

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2. INSTALLATION menu

Menu option	Setting	Feature description
WALL SCREEN	OFF/BEIGE ⏎ / LIGHT BLUE ⏎ / LIGHT GREEN ⏎ / PINK ⏎ /BLACK BOARD/WHITE BOARD	Selects a desired setting based on the color of the screen or wall on which images are projected. When selecting a setting other than BLACK BOARD/WHITE BOARD, you can fine-tune the color tone to the desired level on the 1 to 5 scale. (See page 18.)
LAMP MODE	STANDARD	Select this setting when you want to view images in a well-lit room.
	LOW	Select this setting when you want to view images at a moderate light intensity. The operating sound is consequently reduced, and the lamp lifetime becomes longer. • When this mode is switched, projected images may flicker. • If this mode is frequently switched, the lamp may be deteriorated.
STANDBY MODE	STANDARD	LAN can be activated in STANDARD MODE. MONITOR OUT cannot be activated.
	LOW	Power consumption can be lowered when selecting LOW. However, LAN and MONITOR OUT cannot be activated.
AUDIO INPUT	AUTO	If AUTO is selected, selects AUDIO 1 when the input source is COMPUTER 1, selects AUDIO 2 when the input source is COMPUTER 2, selects AUDIO 3 when the input source is VIDEO/S-VIDEO, selects HDMI when the input source is HDMI.
	AUDIO 1/AUDIO 2/AUDIO 3	Select the audio input.
	MIX ⏎	Selects MIX signal of AUDIO 1 and AUDIO 2. You can change the balance of AUDIO 1/AUDIO 2 using MIX ⏎.
AUTO POWER ON	ON/OFF	When this mode is set to ON, the lamp is automatically lit when the power cord is plugged in the wall outlet. Select ON when you set the projector at the ceiling. • When the lamp is off, the projector is in standby. Use the remote control to turn on the lamp.
AUTO POWER OFF	OFF/5-60 min	Selects a desired timer setting until the projector enters the standby mode when there is no signal input from the source.
IMAGE CAPTURE	SETUP ⏎	Use to capture the screen for the splash screen. (See page 33.)
SPLASH SCREEN	ON/OFF	Select ON to display the splash screen when the projector is powered on.
BACK COLOR	BLUE/BLACK/IMAGE	Selects the background color that is displayed when there is no signal input from the source.
AV MUTE MODE	BLACK/IMAGE	Use to choose the background, either BLACK, or IMAGE, which will be displayed when the AV MUTE button is pressed. When IMAGE is chosen, the splash screen will be displayed.
IMAGE REVERSE	OFF	Select this setting when you want to view images from the front with the projector set on the floor.
	MIRROR	Select this setting when you want to view images from behind the screen with the projector set on the floor.
	INVERT	Select this setting when you want to view images from behind the screen with the projector set at the ceiling.
	MIRROR INVERT	Select this setting when you want to view images from the front with the projector set at the ceiling.
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.
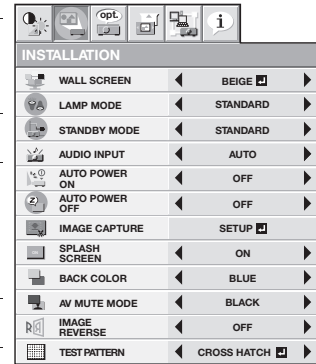
• The STANDARD lamp mode is activated by default whenever the projector is turned on. When the LOW LAMP MODE has been chosen, the default STANDARD lamp mode is switched to the LOW lamp mode in 1 minute.
• In AUDIO INPUT, HDMI audio is selected when the Input Source is HDMI input. The audio of AUDIO 1, AUDIO 2, AUDIO 3, and MIX ⏎ cannot be selected.
• To cancel the test pattern, press any button.

3. FEATURE menu

Menu option	Setting	Feature description
ASPECT	AUTO	Select to change the aspect ratio automatically depending on the input signal. (Select this option for normal use.)
	16:9	Select to project images in full size (1920 x 1080 pixels) irrespective of type of input signal.
	NATIVE	Select to project images in their original size as input.
PASSWORD FUNCTION		Use this setting to activate or deactivate the password lock.
MENU POSITION	2 options	Use this setting to change the position of the menu on the screen.
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, frame dropping or other incorrect display occurs, or jaggies on slanting lines are remarkable, select either FILM or VIDEO, which improves the symptom better.
	FILM	Fixed to the film mode.
	VIDEO	The film mode will not be activated.
VIDEO SIGNAL	8 options	Select Auto to automatically set the appropriate video format in relative to the input signal. If projected images aren't displayed correctly, select a desired video format manually.
SETUP	AUTO	Select this setting to automatically change the SETUP mode.
	OFF	Select this setting to increase the density of black. Use this setting when images are dark.
	3.75%/7.5%	Select this setting to lower the density of black. • When 7.5% is set, the brightness is decreased by the setup cancel function for the U.S.
SPLIT	OK ⏎	Use to sprit the screen in two and display a computer image on the left screen and a video image on the right screen. (See page 33.)
LANGUAGE	12 languages	Selects a desired language for the menu.
QUICK MENU	OK ⏎	Moves to QUICK MENU.
RESET ALL	OK ⏎	Resets all menu settings except for PASSWORD FUNCTION and LANGUAGE to the default.

FEATURE	
ASPECT	◀ AUTO ▶
PASSWORD FUNCTION	◀ DISPLAY INPUT ▣ ▶
MENU POSITION	◀ 1. ▣ ▶
CINEMA MODE	◀ AUTO ▶
VIDEO SIGNAL	◀ AUTO ▶
SETUP	◀ AUTO ▶
SPLIT	OK ⏎
LANGUAGE	◀ English ▶
QUICK MENU	OK ⏎
RESET ALL	OK ⏎
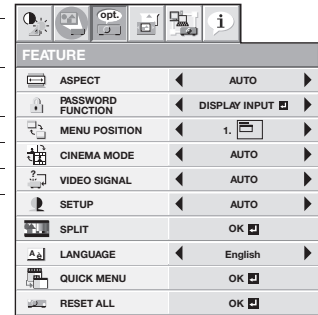
• You can select CINEMA MODE only when the input signal is a TV60, TV50, 480i, 576i or 1080p video signal.

4. SIGNAL menu

Menu option	Setting	Feature description
MEMORY CALL	AUTO / MEMORY 1 ↵ / MEMORY 2 ↵	Use to select the setting of RESOLUTION (MEMORIZE) already saved. Impossible to select if no setting has been saved. AUTO is selected by default. It optimizes the signal format automatically depending on the type of video signal supplied from the computer. Press the ENTER button to clear the setting already saved.
RESOLUTION (MEMORIZE ↵)		The current resolution is displayed. To change the current setting, press the ENTER button to display the RESOLUTION (MEMORIZE) menu. The new setting can be saved to MEMORY 1 or MEMORY 2.
VERTICAL FREQUENCY	-	The vertical frequency of the currently projected video signal is displayed.
HORIZONTAL FREQUENCY	-	The horizontal frequency of the currently projected video signal is displayed.
HORIZ. PIXELS	640-1920	The number of horizontal pixels of the currently projected video signal is displayed. When you change the current setting, select EXECUTE, and then press the ENTER button, the image is automatically adjusted according to the resolution you set. The adjustment result can be saved to MEMORY 1 or MEMORY 2.
VERT. LINES	350-1200	The number of vertical pixels of the currently projected video signal is displayed. When you change the current setting, select EXECUTE, and then press the ENTER button, the image is automatically adjusted according to the resolution you set. The adjustment result can be saved to MEMORY 1 or MEMORY 2.
EXECUTE	OK ↵	Press the ENTER button to start the automatic adjustment. At the completion of the automatic adjustment, a message is displayed and you can save the adjustment result to MEMORY 1 or MEMORY 2.
CANCEL	OK ↵	The process to change the current resolution is canceled and the SIGNAL menu is displayed.
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 appears, viewing the projected image.
TRACKING	0-9999	Use to eliminate vertical wide stripes, if appears, 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_BC_R/YP_BP_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 projected image.
HOLD	OFF / ON ↵	Use to adjust the image when flagging occurs near the top of the screen.
USER	OK ↵	
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)	0-20	Use to adjust the image when noise appears on the top part of the image.
SHUTTER(L)	0-20	Use to adjust the image when noise appears on the bottom part of the image.
SHUTTER(LS)	0-20	Use to adjust the image when noise appears on the left half of the image.
SHUTTER(RS)	0-20	Use to adjust the image when noise appears on the right half of the image.

SIGNAL RESOLUTION (MEMORIZE) menu

SIGNAL USER menu

- 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.
- SHUTTER will not work correctly during keystone adjustment.
- When you increase the setting value of OVER SCAN, noise may appear on the screen.
- See pages 28 and 29 for the detailed setting procedure.

Important:
- You can set the IMAGE, SIGNAL, SIGNAL-RESOLUTION (MEMORIZE) and SIGNAL-USER menus only when the signal is supplied.
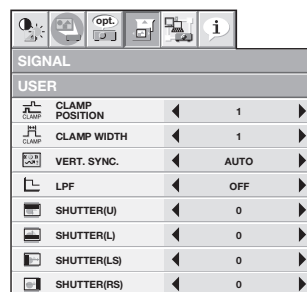
5. NETWORK menu

Menu option	Setting	Feature description
PROJECTOR NAME	***** …	Displays PROJECTOR NAME. Displays PROJECTOR NAME in blank when PROJECTOR NAME is not set.
	SET	Set PROJECTOR NAME. Enter up to 15 characters (alphabets or numeric characters).
NETWORK PASSWORD	OK	Set the password for Web control or PJLink certification.
IP CONFIG	OK	Select this setting for IP Configuration.
DHCP	ON / OFF	Use this setting when you obtain IP CONFIG automatically by DHCP server.
IP ADDRESS	*** *** *** ***, , ,	Displays IP ADDRESS. However, IP ADDRESS is not set as factory default, and cannot be displayed.
	SET	Set IP ADDRESS. When DHCP is se t to ON, you cannot change this setting.
SUBNET MASK	*** *** *** ***, , ,	Displays SUBNET MASK. However, SUBNET MASK is not set as factory default, and cannot be displayed.
	SET	Set SUBNET MASK. When DHCP is set to ON, you cannot change this setting.
DEFAULT GATEWAY	*** *** *** ***, , ,	Displays DEFAULT GATEWAY. However, DEFAULT GATEWAY is not set as factory default, and cannot be displayed.
	SET	Set DEFAULT GATEWAY. When DHCP is set to ON, you cannot change this setting.
MAC ADDRESS	xx-xx-xx-xx-xx-xx	Displays MAC ADDRESS.
PJLink CERTIFICATION	ON / OFF	Use this setting for PJLink Certification.
NETWORK RESET	OK	Resets the Network Setting.
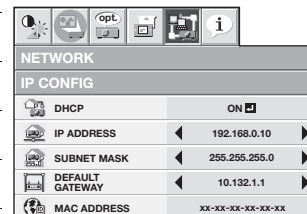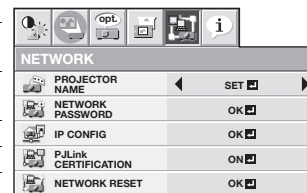
NETWORK IP CONFIG menu

6. INFORMATION menu

Menu option	Feature description
LAMP TIME (LOW)	This menu shows a lamp operating time (hour) calculated assuming that LAMP MODE is LOW. • When the LAMP MODE is STANDARD, this menu shows a longer lamp operating time than the actual time. (See page 38 for the interval of lamp replacement.) • When the lamp operating time is 0 to 10 hours, "0H" is displayed. When the lamp operating time exceeds 10 hours, the actual hours are displayed. • When the lamp operating time reaches 3750 hours, the bar turns yellow. When it reaches 4750 hours, the bar turns red. (The lamp lifetime is 5000 hours.)
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 FRE-QUENCY	Indicates the horizontal frequency of the currently projected video signal.
SYNC. TYPE	Indicates the type of the sync signal for the currently projected video signal.

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Image adjustment

Adjusting projected images
To adjust the brightness (CONTRAST and BRIGHT-NESS):
You can make adjustments of the brightness of the projected image using the menu.
(See page 20 or 22 for the menu options.)
1. Display the QUICK MENU or the IMAGE menu.
2. Select CONTRAST or BRIGHTNESS by pressing the ▲ or ▼ button.
3. Adjust the selected option 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 clearly defined. Every time the ◄ button is pressed, the image becomes darker and less clearly 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 22 for the menu options.)
1. Display the IMAGE menu.
2. Select COLOR or TINT by pressing the ▲ or ▼ button.
   - COLOR and TINT is selectable only when the input signal is VIDEO.
   - TINT is selectable only when the NTSC or 4.43NTSC signal is input.
3. Adjust the selected option by pressing the◄ or ► button.

To cancel the menu:
4. Press the MENU button.

COLOR
Use to adjust the color density of the projected image. Every time the ► button is pressed, the color becomes darker. Every time the◄ button is pressed, the color becomes lighter.

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 20 or 22 for the menu options.)
1. Display the QUICK MENU or the IMAGE menu.
2. Select SHARPNESS by pressing the ▲ or ▼ button.
3. Adjust the selected option by pressing the◄ or ► button.

To cancel the menu:
4. Press the MENU button.

To adjust the tone of white (COLOR TEMP.):
You can select a preset color temperature (white tone) using the menu.
(See page 20 or 22 for the menu options.)
1. Display the QUICK MENU or the IMAGE menu.
2. Select COLOR TEMP. by pressing the ▲ or ▼ button.
3. Select your desired color temperature by pressing the◄ or ► button.

To cancel the menu:
4. Press the MENU button.

To adjust the tone of white (To customize the color temperature):
To set (and store) a user-defined color temperature, perform the following procedure.
(See page 22 for the menu options.)
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 the desired setting.
5. Press the ◄ or ► button to adjust the selected setting.
6. Repeat steps 4 and 5 for optimal adjustment results.

COLOR TEMP.-USER		
◗ CONTRAST R	◄ 0	►
◗ CONTRAST G	◄ 0	►
◗ CONTRAST B	◄ 0	►
☀ BRIGHTNESS R	◄ 0	►
☀ BRIGHTNESS G	◄ 0	►
☀ BRIGHTNESS B	◄ 0	►

To cancel the menu:
7. Press the MENU button.

To enable the stored color temperature:
1. Set COLOR TEMP. to USER ↵ in the IMAGE menu.

> **About color temperature**
> There are different variations in white color. Color temperature is a way to show these variations in white. When the temperature is low, white appears reddish. When the temperature rises, white appears bluish. For example, you can change the temperature using the following procedures.
> To raise the temperature: Increase CONTRAST B (blue) and decrease CONTRAST R (red).
> To reduce the temperature: Decrease CONTRAST B (blue) and increase CONTRAST R (red).
> - If you set CONTRAST R, G, and B to negative values, the brightness of the image can't retain the original even when you maximize the value of CONTRAST in the QUICK MENU or the IMAGE menu.

Color Enhancer
You can set user-defined values for the brightness and hue using the menu. (See page 22 for the menu options.)
1. Display the IMAGE menu.
2. Select COLOR ENHANCER by pressing the ▲ or ▼ button.
3. Select USER ↵ by pressing the ◄ or ► button.
4. Press the ENTER button.
5. Select a setting you want to set.

COLOR ENHANCER	◄ AUTO	►

COLOR ENHANCER-USER		
GAMMA MODE	◄ DYNAMIC	►
BrilliantColor™	◄ 10	►
RGB-COLOR	◄ 0	►
RGB-TINT	◄ 0	►

GAMMA mode
Use this setting to set an optimal gamma value and modulation of lamp power. The level of brightness can be adjusted for subdued colors.

DYNAMIC ....Select when viewing crisp, clear images in a brightly lit room or strong daylight. The level of brightness is adjusted to higher levels.

NATURAL ....Select when viewing images of which colors are more faithfully reproduced. The level of brightness and vividness is adjusted to optimal levels.

DETAIL ....Select when viewing images of which brightness should be kept relatively low, such as movies and music video clips.

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BrilliantColor™

Use this setting to make colors with medium brightness, such as yellow and the skin tone appear natural. Press the ◀ button to decrease the value to lessen the effect. Press the ▶ button to increase the value to heighten the effect. (BrilliantColor™ has no effect at value 0.)

6.   Select a value by pressing the ◀ or ▶ button.
- For more enhanced color reproduction, set BrilliantColor™ to 0. The white area of the color wheel is disabled, and you can reproduce true-color images.

RGB-COLOR

Use to adjust the color intensity of the projected image. Every time the ▶ button is pressed, the color becomes thicker. Every time the ◀ button is pressed, the color becomes lighter.

RGB-TINT

Use to adjust the color balance 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.

How to adjust the computer image

This projector automatically selects a proper signal format according to the type of video signal supplied from the computer. However, video signals from the computer may not be projected correctly depending on the types of the computer and images to be projected. In such a case, make adjustment according to the flowchart below.

When the size and position of the computer image are not correct.

Project a bright computer image containing as many texts and characters as possible.
Note) Disable the screen saver if it is active.

Press the AUTO POSITION button. When a signal from a video device (or signal marked with *2 on page 46) is being input, a window to select the adjustment mode is displayed. Select AUTO ADJUST using the ◀ or ▶ button and press the ENTER button.

Settings are automatically and optimally adjusted for the input signal.

Image is projected correctly. — NO

YES

Display the screen resolution setting menu of your computer.
(Example: In the case of Windows® PC, right-click on the desktop, select Properties, and click the Settings tab to display the screen resolution setting.)

The screen resolution setting of your computer is different from the setting of RESOLUTION (MEMORIZE ⏎) in the SIGNAL menu of the projector. — NO

YES

Select RESOLUTION (MEMORIZE ⏎) in the SIGNAL menu and press the ENTER button.

Set HORIZ. PIXELS and VERT. LINES to the values of the screen resolution of your computer.
(Example: When the screen resolution of the computer is 1280x800, set HORIZ. PIXELS to 1280 and VERT. LINES to 800.)

Select EXECUTE and press the ENTER button.

Automatic adjustment starts according to the selected resolution.

Image is projected correctly. — NO

YES

Perform manual adjustment. — NO

YES

After the memory saving massage is displayed, select MEMORY 1 or MEMORY 2 and press the ENTER button.

After the memory saving massage is displayed, select MEMORY 1 or MEMORY 2 and press the ENTER button.

When you don't save the adjustment result, press the MENU button.

Adjustment is canceled.

Adjust HORIZ. POSITION, VERT. POSITION, and TRACKING in the SIGNAL menu. For details, see "Simple method to adjust the image position." (See page 29.)

Adjustment is completed.

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Image adjustment (continued)

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

Carry out the following procedures according to the symptoms.

Wide strips appear. .... 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 horizontally. .... Adjust 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 up.

The top part of the image flags. .... Change the setting of HOLD in the SIGNAL menu. Select ON ↵ , press the ENTER button, and adjust BEGIN or END to minimize the flagging.

A solid black or solid white appears in the image. .... Adjust 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 image. ..... Adjust SHUTTER(LS) or SHUTTER(RS) in the SIGNAL - USER menu.

Noise appears on the top or bottom part of the image. Adjust 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 or game console you use. In such a case, you can reduce such streak noise by enabling the LPF. However, projected images become softened slightly.

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Network settings

You can set the network of the projector using the menu.
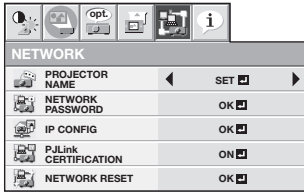
Setting Projector Name

1. Display the NETWORK menu. (See page 22 for menu setting.)
2. Press the ▲ or ▼ button to select PROJECTOR NAME.

3. Press the ◄ or ► button to select SET ⏎ .
4. Press the ENTER button.
   • PROJECTOR NAME screen appears.
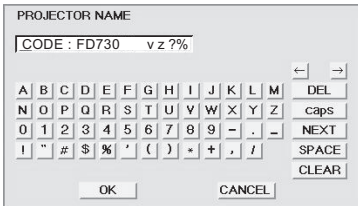
5. Press the direction buttons to move the key cursor, select the characters or marks to enter, and press the ENTER button.
   • Projector Name can be set using up to 15 characters including alphabets (capital/small), numeric characters, or marks.

← key:	Shifting the position of enter cursor to the left for each character.
→ key:	Shifting the position of enter cursor to the right for each character.
DEL key:	Deleting the character in the position of enter cursor for each character.
caps/CAPS key:	Switching an alphabet character to CAPITAL or small.
NEXT/PREV key:	Switching the marks listed on the fourth line.
SPACE key:	Inserting a space in the position of enter cursor.
CLEAR key:	Deleting all the entered characters.

6. When selecting OK, the setting is completed as the name stored. However, when selecting CANCEL, the setting is completed without storing.
   • It may take some time to reflect the settings.

Network Password Settings

1. Display the NETWORK menu. (See page 22 for menu setting.)
2. Press the ▲ or ▼ button to select NETWORK PASSWORD.

3. Press the ENTER button.
   • CURRENT NETWORK PASSWORD screen appears.
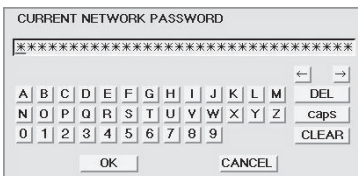
4. Press the direction buttons to move the key cursor, select the characters or marks to enter, and press the ENTER button.
   • Password can be set using up to 32 characters including alphabets (capital/small) or numeric characters.

← key:	Shifting the position of enter cursor to the left for each character.
→ key:	Shifting the position of enter cursor to the right for each character.
DEL key:	Deleting the character in the position of enter cursor for each character.
caps/CAPS key:	Switching an alphabet character to CAPITAL or small.
CLEAR key:	Deleting all the entered characters.

   • The default password is "admin".
5. Select OK, and NEW NETWORK PASSWORD screen appears if the entered password is correct.
   • If the entered password is not correct, CURRENT NETWORK PASSWORD screen appears again.
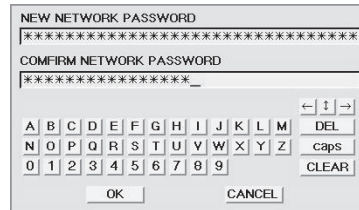
6. Enter the NEW NETWORK PASSWORD and CONFIRM NETWORK PASSWORD.
   • Password can be set using up to 32 characters including alphabets (capital/small) or numeric characters.

← key:	Shifting the position of enter cursor to the left for each character.
→ key:	Shifting the position of enter cursor to the right for each character.
↕ key:	Shifting the position of enter cursor between NEW NETWORK PASSWORD and CONFIRM NETWORK PASSWORD.
DEL key:	Deleting the character in the position of enter cursor for each character.
caps/CAPS key:	Switching an alphabet character to CAPITAL or small.
CLEAR key:	Deleting all the entered characters.

7. When NEW NETWORK PASSWORD and CONFIRM NETWORK PASSWORD are matched, the setting is completed after changing the NETWORK PASSWORD.
   • If the entered content is not matched, NEW NETWORK PASSWORD screen appears again after an error dialog is displayed.
   • It may take some time to reflect the settings.

IP Settings

1. Display the NETWORK menu. (See page 22 for menu setting.)
2. Press the ▲ or ▼ button to select IP CONFIG.
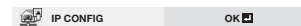
3. Press the ENTER button.
   • IP CONFIG menu appears.

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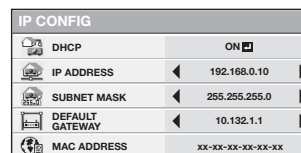
Setting or Clearing DHCP
1. Display the IP CONFIG menu.
2. Press the ▲ or ▼ button to select DHCP.

    | DHCP | ON◄┘ |

3. Press the ENTER button.
   • Confirmation dialog appears.

    DHCP :　　◄　　ON◄┘　　►
    OK : ENTER　CANCEL : MENU

4. Press the ◄ or ► button to select ON◄┘ or OFF◄┘ .
5. Select the item to set, and press the ENTER button.
   • To cancel the setting, press the MENU button.
   • It may take some time to reflect the settings.
   • When setting DHCP to ON, IP ADDRESS, SUBNET MASK, and DEFAULT GATEWAY cannot be set. If you set those settings, set DHCP to OFF and perform the IP settings as the following procedures.

IP Address Settings
1. Display the IP CONFIG menu.
2. Press the ▲ or ▼ button to select IP ADDRESS.

    | IP ADDRESS | ◄　SET◄┘　► |

3. Press the ◄ or ► button to select SET◄┘ .
4. Press the ENTER button.
   • IP ADDRESS screen appears.

    IP ADDRESS
    192.168. 0. 10
    ← → DEL
    0 1 2 3 4 5 6 7 8 9 CLEAR
    OK　CANCEL
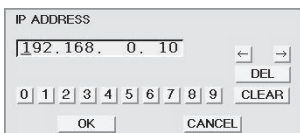
5. Press the direction buttons to move the key cursor, select the numbers to enter, and press the ENTER button.
   • Set the numeric value within the range from 0 to 255. However, set the numeric value for the final octet within the range from 1 to 254.
     ← key: Shifting the position of enter cursor to the left.
     → key: Shifting the position of enter cursor to the right.
     DEL key: Deleting the character in the position of enter cursor for each character.
6. When selecting OK, the setting is completed as the IP ADDRESS stored. However, when selecting CANCEL, the setting is completed without storing.
   • It may take some time to reflect the settings.

Subnet Mask Settings
1. Display the IP CONFIG menu.
2. Press the ▲ or ▼ button to select SUBNET MASK.

    | SUBNET MASK | ◄　SET◄┘　► |

3. Press the ◄ or ► button to select SET◄┘ .
4. Press the ENTER button.
   • SUBNET MASK screen appears.

    SUBNET MASK
    255.255.255. 0
    ← → DEL
    0 1 2 3 4 5 6 7 8 9 CLEAR
    OK　CANCEL
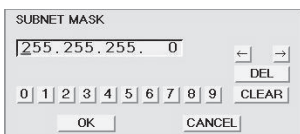
5. Enter the Subnet Mask.
   • Refer to IP Address Settings for the detail of entering.

6. When selecting OK, the setting is completed as the Subnet Mask stored. However, when selecting CANCEL, the setting is completed without storing.
   • It may take some time to reflect the settings.

Default Gateway Settings
1. Display the IP CONFIG menu.
2. Press the ▲ or ▼ button to select DEFAULT GATEWAY.

    | DEFAULT GATEWAY | ◄　SET◄┘　► |

3. Press the ◄ or ► button to select SET◄┘ .
4. Press the ENTER button.
   • DEFAULT GATEWAY screen appears.

    DEFAULT GATEWAY
    10.132. 1. 1
    ← → DEL
    0 1 2 3 4 5 6 7 8 9 CLEAR
    OK　CANCEL
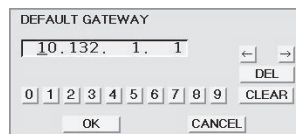
5. Enter the Default Gateway.
   • Refer to IP Address Settings for the detail of entering.
6. When selecting OK, the setting is completed as the Default Gateway stored. However, when selecting CANCEL, the setting is completed without storing.
   • It may take some time to reflect the settings.

Setting or Clearing PJLink Certification
Perform the settings to start PJLink protocol communication.
• See page 35 for the detail of PJLink.
1. Display the NETWORK menu. (See page 22 for menu setting.)
2. Press the ▲ or ▼ button to select PJLink CERTIFICATION.

    | PJLink CERTIFICATION | ON◄┘ |

3. Press the ENTER button.
   • Confirmation dialog appears.

    PJLink :　　◄　　ON◄┘　　►
    OK : ENTER　CANCEL : MENU

4. Press the ◄ or ► button to select ON◄┘ or OFF◄┘ .
5. Select the item to set, and press the ENTER button.
   • To cancel the setting, press the MENU button.
   • It may take some time to reflect the settings.

Initialization of Network Settings
1. Display the NETWORK menu. (See page 22 for menu setting.)
2. Press the ▲ or ▼ button to select NETWORK RESET.

    | NETWORK RESET | OK◄┘ |

3. Press the ENTER button.
   • Confirmation dialog appears.
4. If pressing the ENTER button again, the Network Settings can be initialized.
   • It may take some time to reflect the settings.

How to Use Network Function
- When connecting a computer and projector with LAN, config-ure the both IP Addresses in the same network group.
  If connecting in different network group, be sure to use a router. As for the settings of a router, ask the network adminis-trator.
- Configure the IP CONFIG correctly. If the settings are not cor-rect, the communication may be unavailable. For the detail, consult the network administrator.
- Depending on the settings of standby mode of the projector, LAN function may be unavailable. See page 23 for the detail of standby mode.

Glossary
For more detail of the glossary below, refer to the technical book that is commercially available.

Term	Description
DHCP	Abbreviation for Dynamic Host Configuration Protocol. This protocol automatically assigns IP Address to networked devices.
IP Address	Numerical address to identify networked comput-ers.
Subnet Mask	A numeric value to define the number of bits used for a network address of a divided network (or subnet) in an IP Address.
Default Gate-way	A server (or router) to communicate across net-works (subnets) that are divided by Subnet Mask.
MAC Address	Abbreviation for Media Access Control Address. MAC Address is a unique ID number assigned to each network adapter. And this is based on which data are sent and received between net-work adapters.

Advanced features

Setting of the image displayed during startup or muting

You can display your desired image as the startup screen (or splash screen). Using the menu, you can also use such image as a background that is displayed while the video is muted or no signal is supplied.

Important:
- You can't set IMAGE CAPTURE when PASSWORD FUNCTION in the FEATURE menu has been set to SPLASH ID SCREEN to enable the password lock.
- You can't set IMAGE CAPTURE when the component video signal is inputted.

Setting procedure
1. Press the COMPUTER button to select the image supplied to the COMPUTER/COMPONENT VIDEO IN terminal.
2. Display your desired image.
3. Display the INSTALLATION menu.
4. Select IMAGE CAPTURE by pressing the ▲ or ▼ button.
5. Press the ENTER button.
   - The setting menu will be displayed.

Set the background color
(Set the background color only when you set the image size to x1 or x4.)
6. Select BACK COLOR by pressing the ▲ or ▼ button.
7. Select your desired color for the background (GRAY, RED, GREEN, BLUE, BLACK, WHITE, RED50%, GREEN50%, or BLUE50%) by pressing the ◄ or ► button.

Set the image size
8. Select SIZE by pressing the ▲ or ▼ button.
9. Select x1, x4, or FULL by pressing the ◄ or ► button.

x1　　　　　x4　　　　　FULL
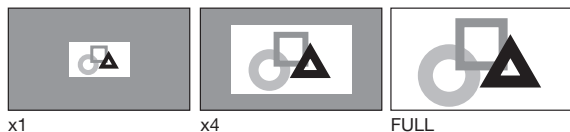
Capture the image
10. Select CAPTURE by pressing the ▲ or ▼ button.
11. Press the ENTER button.
    - A red frame appears. (The size of the red frame is 640 x 360 pixels.)
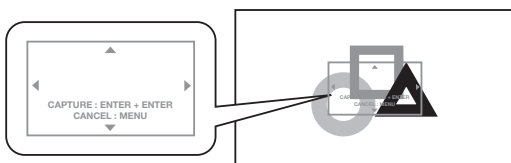
12. Adjust the size of the image to be captured so that such image stays within the red frame.
    - Press the ▲, ▼, ◄ or ► button to move the red frame.
    - You can't move the red frame outside the screen.

13. Press the ENTER button twice.
    - Image capture will start.
    - Press the MENU button to cancel the procedure.

- When the image capture completes, the captured image will be displayed for a few seconds.

Important:
- You can't change the new startup screen back to the original startup screen. (Even when you select RESET ALL in the FEATURE menu, the factory default screen isn't available any longer.) When you want to change the startup screen again, capture another image.
- The captured image will be displayed from the next startup. If the captured image isn't displayed, make sure that the setting of SPLASH SCREEN in the INSTALLATION menu isn't OFF. (See page 23.)
- To display the captured image while the video is muted, set AV MUTE MODE in the INSTALLATION menu to IMAGE. (See page 23.)
- When BACK COLOR in the INSTALLATION menu is set to IMAGE, the captured image will be displayed while no signal is supplied.
- In the mute mode, or when no signal is input, it takes longer time to display the captured image.
- Some images can't be captured correctly because of their signal type.

Split

You can split the screen in two and display a computer image on the left screen and a video image on the right screen.

Left screen　　　Right screen
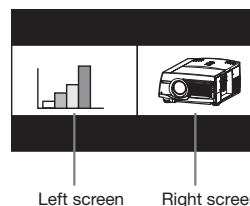
To use the split mode:
1. Display the FEATURE menu.
2. Select SPLIT by pressing the ▲ or ▼ button.
3. Press the ENTER button.
   - The screen is split in two and the left and right screens display the following images:
     - Left screen: Image supplied to the last selected input source, COMPUTER1, COMPUTER2, or HDMI
     - Right screen: Image supplied to the last selected input source, VIDEO or S-VIDEO
   - When you press the MENU button, the screen is displayed in the normal mode.
   - In the split mode, audio of the left screen is output.
   - In the split mode, the picture quality settings of the input source in the normal mode to be displayed on the left screen are reflected on the entire screen.
   - When no signal is input, a blue screen is displayed.
   - When you input an interlace signal to the left screen, the displayed image may shake up and down slightly, but this is not a malfunction.

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- When you display 60-Hz and 50-Hz video signals at the same time, motion images may not be displayed properly. In this case, set VERT. SYNC of USER in the SIGNAL menu to OFF for the left screen. (See page 25.)
- When BACK COLOR of the INSTALLATION menu is set to IMAGE, you cannot use the split mode.

To change the input source of the left or right screen:
- To change the input source of the left screen, press the ◀ button on the remote control.
- To change the input source of the right screen, press the ▶ button on the remote control.

Freeze

To stop the motion in the image temporarily (or to display a still image):
Press the FREEZE button on the remote control.
- The image freezes temporarily.

To resume the motion in the image:
Press the FREEZE button on the remote control again.

Important:
- Do not keep displaying a still picture for an extended period of time, as the afterimages may linger on the screen.

Password function

This projector provides the password function that is intended to prevent wrong operations by children and set controlled access for specified users.

DISPLAY INPUT............ When the projector is turned on, the startup screen (or splash screen) appears and stays on the screen until the password is entered. When the password is entered, the startup screen switches 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 to prevent wrong operations by children and set controlled access for specified users.

SPLASH ID SCREEN ... IMAGE CAPTURE and SPLASH SCREEN in the menu become unselectable. SPLASH SCREEN is set to ON ↵ automatically.

To enable the password function:
1. Display the FEATURE menu.
2. Press the ▲ or ▼ button to select PASSWORD FUNCTION.
3. Press the ◀ or ▶ button to change the mode among DISPLAY INPUT ↵, MENU ACCESS ↵.
   - When the password has already been set, the mode never changes. Press the ENTER button to cancel the password function and try again.
4. Press the ENTER button.
   - The screen for setting the password function appears.

FEATURE			
MENU ACCESS			
LOCK		OK ↵	
		OK	
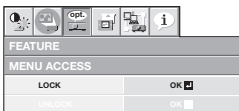
5. Press the ENTER button.
   - The screen for entering a password appears.

```
PASSWORD    – – – – – – – –
CONFIRM     – – – – – – – –
        1
    4   ◆   2    O K : ENTER    CANCEL : MENU
        3
```
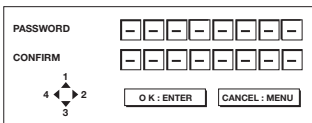
6. Enter a 4 - 8 digit password using the ▲, ▼, ◀ or ▶ buttons on the remote control as shown below.
   (▲=1, ▶=2, ▼=3, ◀=4)

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 are incorrect, an error message appears.
   - To cancel the procedure, press the MENU button.

To cancel the password function:
1. Display the FEATURE menu.
2. Press the ▲ or ▼ button to select PASSWORD FUNCTION.
3. Press the ENTER button.
   - The screen for canceling the password function appears.

FEATURE			
MENU ACCESS			
LOCK		OK ▮	
UNLOCK		OK ↵	

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

```
PASSWORD    – – – – – – – –
        1
    4   ◆   2    O K : ENTER    CANCEL : MENU
        3
```
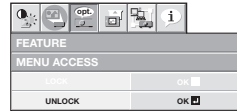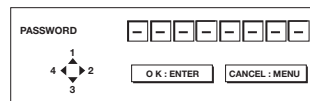
5. Enter a 4 - 8 digit password using the ▲, ▼, ◀ or ▶ buttons on the remote control as shown below.
   (▲=1, ▶=2, ▼=3, ◀=4)
6. Press the ENTER button.
   - If you enter a wrong password, an error message appears.
   - To cancel the procedure, press the MENU button.

Important:
- When the screen for entering the password is displayed, to disable the password function, hold down the MENU and ENTER buttons on the control panel together.

Magnify

By pressing the MAGNIFY button on the remote control, you can magnify the image to view the details.
- The MAGNIFY mode doesn't function with some input signals. For details, see page 46.
- The MAGNIFY mode doesn't work with video or S-video signal.

MAGNIFY
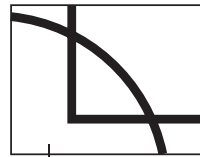
Magnified image

To use the MAGNIFY mode:
1. Press the MAGNIFY button.
   - You can select the area to be magnified by pressing the ▲, ▼, ◀ or ▶ button on the remote control.
   - You can change the magnification of the selected area by pressing the VOLUME ▲ or ▼ button.
2. Press the MAGNIFY button again to exit the MAGNIFY mode.
   - The regular operation screen will appear.

Important:
- In the MAGNIFY mode, you can't adjust the volume.

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Setting the efficient mode

By pressing the EFFICIENT MODE button, you can display the EFFICIENT MODE menu to set the following menu items: LAMP MODE, STANDBY MODE, and AUTO POWER OFF. (For details of each item, see page 23.)

1. Press the EFFICIENT MODE button.
   - The EFFICIENT MODE menu appears.

EFFICIENT MODE		
LAMP MODE	◀ STANDARD	▶
STANDBY MODE	◀ STANDARD	▶
AUTO POWER OFF	◀ OFF	▶

2. Select an desired item to set by pressing the ▲ or ▼ button.
3. Set the selected item by pressing the ◀ or ▶ button.
4. Repeat steps 2-3 for each setting.
5. Press the EFFICIENT MODE button to exit the menu.

Supervising and controlling by computer

You can supervise and control the projector's operation using a personal computer via a LAN.

Major functions

ProjectorView Global+

Batch projector controlling / supervising application software
- Batch operation of stand-alone projector / multiple projectors
- Scheduling function to turn ON/OFF for each day of the week
- Checking each condition of the projector and detecting a theft
- Setting of the projector's IP CONFIG
- Startup of the controlling / supervising tool (ProjectorView) using the Web browser
- Activating Visual PA2 to display the specified characters on the projector's screen

ProjectorView

The controlling /supervising tool using the Web browser
- Controlling and supervising a single projector
- Setting of the projector's network function
- Setting of the Alert E-mail service of the projector

PJLink™

This projector supports standard protocol PJLink™ for projector control and you can control and monitor projector's operations using the same application among projectors of different models and different manufacturers.

About ProjectorView Global+ and ProjectorView
- For details, see "LAN control UTILITY operation manual" in the CD-ROM.

About PJLink™
- To use PJLink™ function, the PJLink™ application software is required.
- To use this function, set the PJLink™ certification properly according to the setting of the network application to be used. (See page 31.)
- For the specifications of PJLink™, access to the Web site of Japan Business Machine and Information System Industries Association (JBMIA). (http://pjlink.jbmia.or.jp/english)
- This projector is fully compliant to the specifications of JBMIA PJLink™ Class 1. It supports all the commands defined by PJLink™ Class 1, and the compliance has been verified with the PJLink™ standard specifications Version 1.0.

Important:
- For the commands for PJLink™, see the table on the next page.
- The control may not be performed correctly or the monitoring data may not be obtained correctly in the following conditions:
  - · During standby
  - · During input source switching
  - · During auto position execution
  - · During AV mute
  - · During command processing
  - · Before the splash screen disappears after the power is turned on.
- Use 1 controller to control/monitor 1 projector.
- For how to control/monitor using PJLink™, see the operation manual of the PJLink™ application you use.
- When you monitor the projector's operating state using this function by issuing inquiry commands successively, issue an inquiry command after receiving the response to the previous inquiry command from the projector.

Connection

For details of the connection, see "LAN control UTILITY operation manual" in the CD-ROM.

> **When STANDBY MODE in the INSTALLATION menu or the EFFICIENT MODE menu of the projector is set to LOW, the LAN network is disabled. To enable the LAN network, set STANDBY MODE to STANDARD. (See page 23.)**

Configure the initial network settings first.
You can configure the initial settings using the projector menu (see pages 30 to 32) or ProjectorView Global+ or ProjectorView. For details of ProjectorView Global+ and ProjectorView, see "LAN control UTILITY operation manual" in the CD-ROM.

Using the User Manual

The User Manual for LAN Control Utility is prepared in the Portable Document Format (PDF) in the CD-ROM.

Opening the User Manual:

1. Load the CD-ROM into the CD-ROM drive.
2. Open CD-ROM "PROJECTOR."
3. Double-click on "MANUAL_LAN.HTML" within the CD-ROM. A language selection list for the User Manual will be displayed.
4. Move the mouse pointer to the desired language and click.

PJLink™ supported commands

The table below shows commands to control the projector using the PJLink™ protocol.

Command	Description	Remark (Parameter)
POWR	Power control	0 = Standby 1 = Power on
POWR ?	Inquiry about the power state	0 = Standby 1 = Power on 2 = Cooling down 3 = Warming up
INPT	Input switching	11 = COMPUTER1 12 = COMPUTER2 21 = VIDEO 22 = S-VIDEO 31 = HDMI
INPT ?	Inquiry about input switching	
AVMT	Mute control	30 = Video and audio mute disable 31 = Video and audio mute enable
AVMT ?	Inquiry about the mute state	
ERST ?	Inquiry about the error state	1st byte: Fan error, 0 or 2 2nd byte: Lamp error, 0 to 2 3rd byte: Temperature error, 0 or 2 4th byte: Cover open error, 0 or 2 5th byte: Always 0 6th byte: Other error, 0 or 2 0 to 2 mean as follows: 0 = No error detected, 1 = Warning, 2 = Error
LAMP ?	Inquiry about the lamp state	1st value (1 to 5 digits): Cumulative LAMP operating time (This item shows a lamp operating time (hour) calculated based on that LAMP MODE is LOW.) 2nd value: 0 = Lamp off, 1 = Lamp on
INST ?	Inquiry about the available inputs	The following value is returned. "11 12 21 22 31"
NAME ?	Inquiry about the projector name	The projector name set on the NETWORK menu or the ProjectorView Setup window is returned.
INF1 ?	Inquiry about the manufacturer name	"MITSUBISHI" is returned.
INF2 ?	Inquiry about the model name	"FD730U" is returned.
INF0 ?	Inquiry about other information	No other information is available. No parameter is returned.
CLSS ?	Inquiry about the class information	"1" is returned.

• This projector is fully compliant to the specifications of JBMIA PJLink™ Class 1. It supports all the commands defined by PJLink™ Class 1, and the compliance has been verified with the PJLink™ standard specifications Version 1.0.

Lamp replacement

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 separately sold that is exclusive to this projector. Contact your dealer for purchase of the lamp.

Spare lamp for FD730U/FD730U-G: VLT-XD700LP

Caution:
- Do not remove the lamp immediately after using the projector. You may get burned because the lamp is very hot after use.
- Before replacing the lamp, press the POWER button to turn off the lamp and wait for two minutes for lamp to cool down. Unplug the power cord from wall outlet and wait one hour for the lamp to cool down completely.
- Do not remove the lamp except for replacement. Careless handling can cause injury or fire.
- Do not touch the lamp with bare hands or give a shock to the lamp. Attach the lamp properly. Improper handling may cause explosion.
- Be sure not to drop the lamp lid screw into the projector. Also be sure not to put metal or any flammable objects inside because it may cause fire or electric shock. If any objects should fall inside, unplug and contact your dealer.
- Install the lamp securely to prevent failure and fire.
- If the lamp should break, small glass fragments may fall out through the vents and some may remain inside of the projector or the lamp box. When taking the lamp box out, be sure to turn over the projector and hold the handle of the lamp box to avoid injury due to the glass fragments.
- If the lamp should break, never shake the lamp box or hold it in front of your face after removing it. The glass fragments may fall out and cause injury to your eyes.
- 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 dedicated to this projector, VLT-XD700LP for FD730U/FD730U-G. Use of other lamps may cause a failure of the projector.

A) When the projector is placed on the table
Make sure that the projector is securely held in place.

1. 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.
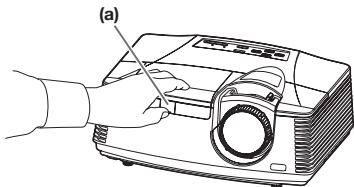
2. Remove the screw (b) and slide the lamp cover (c) for removal.
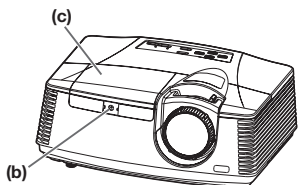
3. Loosen the two screws (d) of the lamp unit, and then pull out the lamp unit (f) by the handle (e).
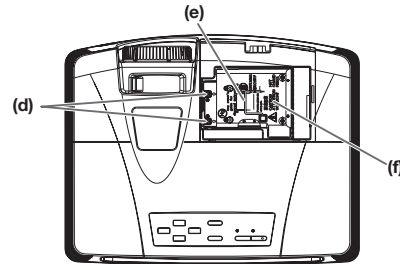
Caution:
- When replacing the lamp, do not loosen the screws other than two screws (d). It may cause the failure of projector.
- Pull the lamp unit out of the projector slowly. If it is pulled out quickly, the lamp may break, scattering glass fragments.
- Do not spill liquid on the removed lamp unit 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.
1. 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.
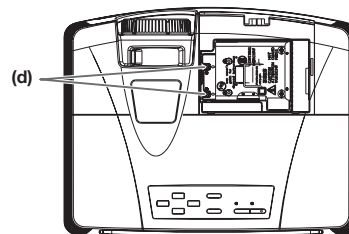
Caution:
- When replacing the lamp, do not loosen the screws other than two screws (d). It may cause the failure of projector.

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3. Assemble the lamp replacement attachment by folding two taping portions (g) and two cutout portions (h) along the folding line as the figure.
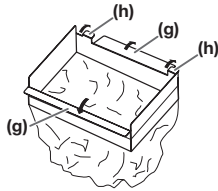
4. Insert the two cutout portions (h) in the slit of the projector, paste the two taping portions (g) with the tape included in the lamp replacement attachment, and then fix the lamp replacement attachment to the projector.
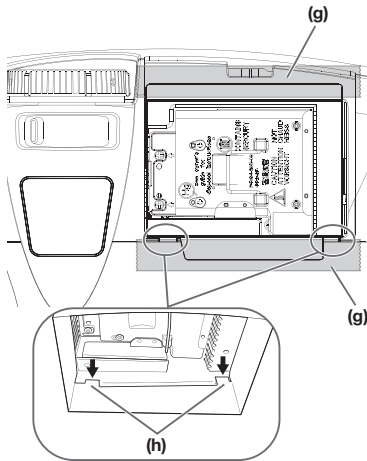
5. Pull out the lamp unit (f) in the bag by the handle (e).
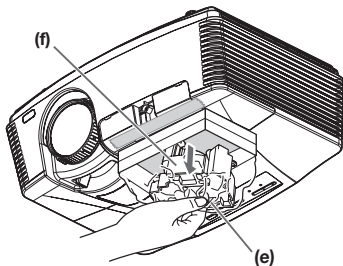
6. Remove the tape fixing the lamp replacement attachment, and remove the lamp replacement attachment with the lamp unit remaining in the bag.

   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 three buttons are pressed at the same time, the lamp operation time isn't reset.
• Make sure that the STATUS indicator is lit 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.

Caution:
• The lamp is fragile. If it is broken, be careful not to cut yourself with glass fragments.
• Contact your dealer for a new lamp.

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 in the QUICK MENU or the INSTALLATION menu or the EFFICIENT MODE 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 beshorted to 3000 hours.

Important:
• Do not open the lamp cover when the projector is set at a ceiling or a high place. Lamp fragments may fall from the inside if the lamp were broken. Please contact your dealer when you need to replace the lamp with a new one.

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.)

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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 turned on.	• Check whether the indicators are on or off and how they are lightning.
	<table><tr><th>POWER</th><th>STATUS</th><th>Solution</th></tr><tr><td>○ Off</td><td>○ Off</td><td>• Connect the power cord to the projector. • Plug the power cord into a wall outlet.</td></tr><tr><td rowspan="4">Steady red</td><td>○ Off</td><td>• If any objects are blocking the intake or exhaust vents, remove them and carry out the following. 1. Unplug the power cord from the wall outlet. 2. Make sure that the projector has cooled off. 3. Plug the power cord into the wall outlet. 4. Press the POWER button.</td></tr><tr><td>Blinking orange</td><td>• If any objects are blocking the intake or exhaust vents, remove them. • Don't expose the exhaust vents to hot air emitted from a heating appliance.</td></tr><tr><td>Blinking green</td><td>• 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 1 minute when you plug the power cord next time. • The lamp can't turn on again for 1 minute after it goes out. • Press the POWER button several times.</td></tr><tr><td>Steady red</td><td>• Replace the lamp. (The lamp is at the end of its life.)</td></tr><tr><td rowspan="2">Blinking red/green</td><td>○ Off</td><td>• Attach the lamp cover on the top.</td></tr><tr><td>Steady or Blinking</td><td>• Unplug the power cord from the wall outlet and contact your dealer.</td></tr></table>
No image appears on the screen.	• Cancel the AV mute by pressing the AV MUTE button. • Check that the lens cap is removed. • It may take about 1 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. Press the POWER button to turn back on the POWER indicator. • Check that the intake vent is clean. • Check that the lamp cover is closed. (See page 38.) • 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.
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 about 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.

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 34.)
"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 29.)
Projected images are distorted.	• Adjust the projector and the screen so that they are perpendicular to each other. (See page 14.)
Projected images are dark.	• Adjust BRIGHTNESS and CONTRAST in the QUICK MENU or the IMAGE menu. (See page 27.) • Replace the lamp. (See page 37.)
Projected images are blurred.	• Adjust the focus. (See page 16.) • 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 29.) • Adjust BRIGHTNESS and CONTRAST in the QUICK MENU or the IMAGE menu. (See page 27.) • Adjust the projector and the screen so that they are perpendicular to each other. (See page 14.)
Afterimages persist on the screen.	• This phenomenon is improved by keeping projecting an evenly bright image. (Such "image burn-in" phenomenon where afterimages persist on the screen may occur if a stationary image is kept displayed on the screen for a long time.)
White dots are seen on projected images. Black dots are seen on projected images.	• This phenomenon is normal for a DLP™ projector and is not a malfunction. (A very small number of pixels may visibly or invisibly be persistent all the time, but they are not a sign of system malfunctions. Over 99.99% of the pixels are effective.)
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, game console or computer you use. In such a case, you can reduce such streak noise by enabling the LPF.
Projected images become wavy.	• Connect the plugs of the cables to external devices securely. • Keep the projector away from equipment generating 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.

Images are not displayed correctly. (continued)

Problem	Solution
Hue is not appropriate.	• Check that the cables connected to the external devices are not broken.
Tint in projected images is incorrect.	• If the setting of COMPUTER INPUT in the SIGNAL menu is inconsistent with the RGB/YCbCr output setting of the external device even when the input source is other than COMPUTER (for example, when the input source is HDMI), the entire image appears reddish or greenish. → Check that COMPUTER INPUT in the SIGNAL menu is correctly set. (See page 25.) • Check that the cable connected to the external device isn't broken.
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 15.)
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.
No audio is output.	• Check that the volume isn't set to low. • Check the Audio Input setting. • When the external device is connected with an HDMI cable, set the audio output of the device to PCM output.
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 unplug the power cord from the wall outlet. Wait about 10 minutes, plug the power cord in, and try again.
"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 intake or exhaust vents are blocked. When they are kept blocked, the lamp goes out. → Remove the objects blocking the intake or exhaust vents.
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 8.) • Check that the remote control sensor isn't exposed to direct sunlight or fluorescent light. (See page 8.) • Use the remote control within its operation range. (See page 8.) • Use the remote control at least 10 cm away from the projector.

Others (continued)

Problem	Solution
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 34.)
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.

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 37 and 38.) • Reset the lamp operating time. (See page 38.)
The STATUS indicator blinks.	• Reset the lamp operating time. (See page 38.)

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.
• Ask your dealer for annual cleaning of the inside of the projector. If you continue to use the projector with dust inside, it may result in fire or malfunction.

Cleaning of the projector and the vents
Use a soft cloth to clean the projector and the vents. When the vents 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 benzin 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.

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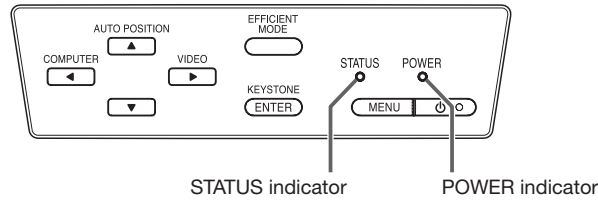This projector has a Kensington Security Standard connector for use with Kensington MicroSaver Security System. Refer to the information that came with the Kensington System for instructions on how to use it to secure the projector. Please contact Kensington Technology Group below.

Kensington Technology Group
2855 Campus Drive
San Mateo, CA 94403, U.S.A.
Phone: +1- (650)572-2700   Fax: +1- (650)572-9675

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 your dealer.

```
         AUTO POSITION        EFFICIENT
                                MODE
    COMPUTER        VIDEO
                                           STATUS   POWER
                            KEYSTONE
                             ENTER               MENU
```

STATUS indicator   POWER indicator

Normal condition

POWER	STATUS	CONDITION	NOTE
○ Steady red	○ Off	Stand-by	
	○ ⇄ ○ Blinking green	Lamp stand-by for power-off	The power cannot be turned on by pressing the POWER button.
○ Steady green	○ ⇄ ○ Blinking green	Lamp stand-by for power-on	The power cannot be turned off by pressing the POWER button.
	○ Steady green	The power is on. (Normal condition)	

Abnormal condition

| POWER	STATUS	CONDITION	POSSIBLE SOLUTION
○ Steady green or ○ Steady red	○ ⇄ ○ Blinking orange	Abnormal temperature • The vents are clogged with dust or dirt. • The room temperature is high.	• Clean the vents. • Relocate the projector to a cooler place.
○ Steady red	○ ⇄ ○ 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	The lamp operation time exceeds the time elapsed until the lamp lifetime notice while the power is on. (See page 38.)	Replace the lamp. Change with a new lamp if this problem recurs.
○ Steady red	○ ⇄ ○ Blinking red	The lamp operation time exceeds the time elapsed until the lamp lifetime notice while the power is off. (See page 38.)	
○ Steady red	○ Steady red	The lamp operation time exceeds the time elapsed until the lamp lifetime. (See page 38.)	
○ ⇄ ○ Blinking green/red	○ Off	The lamp cover isn't closed.	Close the cover correctly.
○ ⇄ ○ Blinking green/red	○ Steady or ○ ⇄ ○ Blinking	Abnormal.	Contact your dealer.

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Specifications

Type	DLP™ projector
Model	FD730U/FD730U-G
Rated power supply	100 - 240 V AC, 50/60 Hz
Power consumption	4.2 A During standby: 0.5W (when STANDBY MODE is LOW)
Display Technology	0.65-inch single chip Digital Micromirror Device (DMD) Pixels: 1920 x 1080 = 2073600 pixels
Colors	16770000 colors
Projection lens	F 2.4-2.8, f = 20.6-30.1 mm
Light source lamp	280 W
Picture size	40–300 inch (Wide) (aspect ratio 16:9)
PC compatibility	Maximum resolution: 1920 x 1080 dots (Compressed in the case of 1600 x 1200 dots) Panel resolution: 1920 x 1080 dots
Video compatibility	NTSC/NTSC 4.43/PAL (including PAL-M, N)/SECAM/PAL-60 Component Video (DVD/HDTV) (480i, 576i, 480p, 576p, 1080i, 720p, 1080p)
Speaker	10 W mono x 1
S-video input	Luminance signal: 1.0 Vp-p 75 Ω (negative sync.) Chroma signal: 0.286 Vp-p 75 Ω (burst signal)
Video input	1.0 Vp-p 75 Ω (negative sync.)
Audio input	350 mVrms, 10 kΩ or more

Analog RGB input	RGB: 0.7 Vp-p 75 Ω (negative sync.)
	YP_BP_R/YC_BC_R:
	    Y: 1.0 Vp-p (negative sync.)
	    P_BP_R/C_BC_R: 0.7 Vp-p
	HD/CS: TTL level (positive or negative)
	VD: TTL level (positive or negative)

HDMI input	HDMI 19-pin HDMI interface (TMDS single link) (only PCM audio is supported)
Control connector	SERIAL terminal (RS-232C), LAN terminal (RJ-45)
Outside dimensions	345 x 134 x 270 mm (width x height x depth)
Weight	Approx. 4.3 kg
Length of power cord	71 inch (1.8 m)
Temperature, humidity (performance guaranteed)	+41°F (+5°C) - +95°F (+35°C), 30 - 90%

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

Connectors

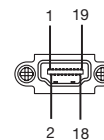COMPUTER/COMPONENT VIDEO IN, MONITOR OUT (mini D-SUB 15-pin)   HDMI (HDMI 19-pin)
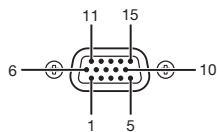
COMPUTER/COMPONENT VIDEO IN

| Pin No.	Spec.
1	R (RED)/C_R
2	G (GREEN)/Y
3	B (BLUE)/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

MONITOR OUT

Pin No.	Spec.
1	R (RED)/C_R
2	G (GREEN)/Y
3	B (BLUE)/C_B
4	-
5	GND
6	GND
7	GND
8	GND
9	-
10	GND
11	-
12	-
13	HD/CS
14	VD
15	-

Pin No.	Spec.
1	TMDS Data 2 +
2	TMDS Data 2 Shield
3	TMDS Data 2 -
4	TMDS Data 1 +
5	TMDS Data1 Shield
6	TMDS Data 1 -
7	TMDS Data 0 +
8	TMDS Data 0 Shield
9	TMDS Data 0 -
10	TMDS Clock +
11	TMDS Clock Shield
12	TMDS Clock -
13	CEC
14	-
15	SCL
16	SDA
17	DDC Ground
18	+5 V Power
19	Hot Plug Detect

Dimension drawings (unit: mm)
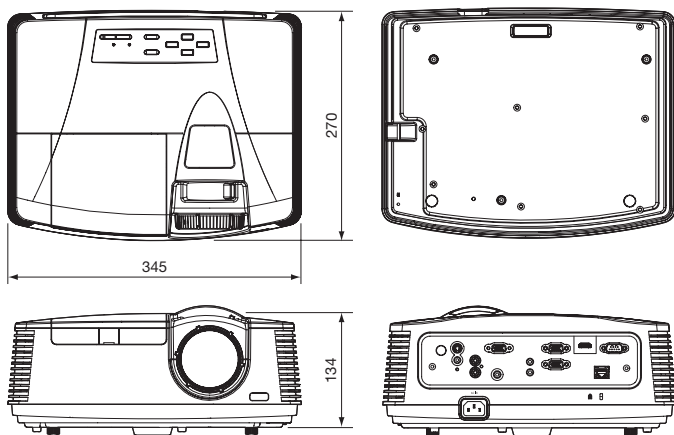
What's included in the box

AC power cord*	for the U.S.	J2552-0063-03	Remote control
	for Europe	J2552-0247-00	Safety Manual/Quick Start up
	for the U.K.	J2552-0065-02	CD-ROM
	for Australia	J2552-0053-00	Battery (2)
	for South Korea	J2552-0247-00	Lens cap
Computer cable		J2552-0072-05	Soft case
			Lamp replacement attachment

* One of power cords for the U.S., Europe, U.K., Australia, and South Korea is provided appropriately.

Replacement part (option/not included in the box)

Spare lamp: VLT-XD700LP

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)	Native mode (H x V)	
TV60, 480i (525i)	720 x 480	15.73	59.94	1440 x 1080	640 x 480	
TV50, 576i (625i)	720 x 576	15.63	50.00	1440 x 1080	768 x 576	
1080i60 (1125i60)	1920 x 1080	33.75	60.00	1920 x 1080	1920 x 1080	*1
1080i50 (1125i50)	1920 x 1080	28.13	50.00	1920 x 1080	1920 x 1080	*1
480p (525p)	720 x 480	31.47	59.94	1440 x 1080	640 x 480	*1
576p (625p)	720 x 576	31.25	50.00	1440 x 1080	768 x 576	*1
720p60 (750p60)	1280 x 720	45.00	60.00	1920 x 1080	1280 x 720	*1, *2
720p50 (750p50)	1280 x 720	37.50	50.00	1920 x 1080	1280 x 720	*1, *2
1080p60 (1125p60)	1920 x 1080	67.50	60.00	1920 x 1080	1920 x 1080	*1, *2
1080p50 (1125p50)	1920 x 1080	56.25	50.00	1920 x 1080	1920 x 1080	*1, *2
CGA70	640 x 400	31.47	70.09	1728 x 1080	640 x 400	
CGA84	640 x 400	37.86	84.13	1728 x 1080	640 x 400	
CGA85	640 x 400	37.86	85.08	1728 x 1080	640 x 400	
VGA60	640 x 480	31.47	59.94	1440 x 1080	640 x 480	*1
VGA72	640 x 480	37.86	72.81	1440 x 1080	640 x 480	
VGA75	640 x 480	37.50	75.00	1440 x 1080	640 x 480	
VGA85	640 x 480	43.27	85.01	1440 x 1080	640 x 480	
SVGA56	800 x 600	35.16	56.25	1440 x 1080	800 x 600	
SVGA60	800 x 600	37.88	60.32	1440 x 1080	800 x 600	*1
SVGA72	800 x 600	48.08	72.19	1440 x 1080	800 x 600	
SVGA75	800 x 600	46.88	75.00	1440 x 1080	800 x 600	
SVGA85	800 x 600	53.67	85.06	1440 x 1080	800 x 600	
SVGA95	800 x 600	59.97	94.89	1440 x 1080	800 x 600	
XGA60	1024 x 768	48.36	60.00	1440 x 1080	1024 x 768	*1
XGA70	1024 x 768	56.48	70.07	1440 x 1080	1024 x 768	
XGA75	1024 x 768	60.02	75.03	1440 x 1080	1024 x 768	
XGA85	1024 x 768	68.68	85.00	1440 x 1080	1024 x 768	
SXGA70a	1152 x 864	63.85	70.01	1440 x 1080	1152 x 864	
SXGA75a	1152 x 864	67.50	75.00	1440 x 1080	1152 x 864	
SXGA85a	1152 x 864	77.49	85.06	1440 x 1080	1152 x 864	
WXGA60	1280 x 768	47.78	59.87	1800 x 1080	1280 x 768	*1
WXGA60a	1280 x 800	49.70	59.81	1728 x 1080	1280 x 800	*1
WXGA60b	1360 x 768	47.71	60.02	1912 x 1080	1360 x 768	
WXGA60c	1366 x 768	47.50	59.75	1920 x 1080	1366 x 768	
WXGA+60	1440 x 900	55.94	59.89	1728 x 1080	1440 x 900	
SXGA60b	1280 x 960	60.00	60.00	1440 x 1080	1280 x 960	
SXGA75b	1280 x 960	75.00	75.00	1440 x 1080	1280 x 960	
SXGA85b	1280 x 960	85.94	85.00	1440 x 1080	1280 x 960	
SXGA60	1280 x 1024	63.98	60.02	1350 x 1080	1280 x 1024	*1
SXGA75	1280 x 1024	79.98	75.02	1350 x 1080	1280 x 1024	
SXGA85	1280 x 1024	91.15	85.02	1350 x 1080	1280 x 1024	
SXGA+60	1400 x 1050	63.98	60.02	1440 x 1080	1400 x 1050	
SXGA+60	1400 x 1050	65.32	59.98	1440 x 1080	1400 x 1050	*1
SXGA+75	1400 x 1050	82.28	74.87	1440 x 1080	1400 x 1050	
WSXGA+60	1680 x 1050	65.29	59.95	1728 x 1080	1680 x 1050	
MAC13	640 x 480	35.00	66.67	1440 x 1080	640 x 480	
MAC16	832 x 624	49.72	74.55	1440 x 1080	832 x 624	
MAC19	1024 x 768	60.24	75.02	1440 x 1080	1024 x 768	
HP75	1024 x 768	62.94	74.92	1440 x 1080	1024 x 768	
HP72	1280 x 1024	78.13	72.00	1350 x 1080	1280 x 1024	
SUN66a	1152 x 900	61.85	66.00	1382 x 1080	1152 x 900	
SUN76a	1152 x 900	71.81	76.64	1382 x 1080	1152 x 900	
SUN66	1280 x 1024	71.68	66.68	1350 x 1080	1280 x 1024	
SUN76	1280 x 1024	81.13	76.11	1350 x 1080	1280 x 1024	
SGI72	1280 x 1024	76.92	72.30	1350 x 1080	1280 x 1024	
SGI76	1280 x 1024	82.01	76.00	1350 x 1080	1280 x 1024	
UXGA60	1600 x 1200	75.00	60.00	1440 x 1080	-	*1

*1 Available with the signal for the HDMI terminal.

*2 You can select from two adjustment modes by pressing the AUTO POSITION button. For details, see page 17.

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Specification of RGB signals in each computer mode of the projector (continued)

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.
• Images with SYNC on G (Green) signal may jitter.
• Images with SYNC on G (Green) signal may be tinged with green.
• 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.
• TV60 and TV50 are equivalent to 480i and 576i respectively. When these signals are supplied to the VIDEO IN or S-VIDEO IN terminal, the signal mode is indicated as TV60 or TV50. When they are supplied to the COMPUTER/COMPONENT VIDEO IN terminals, the signal mode is indicated as 480i or 576i.
• 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
• When a certain signal such as SXGA85, SXGA85b and UXGA60 is input, the number of displayed colors may decrease depending on the setting of ASPECT in the FEATURE menu. Change the signal format of the computer, if necessary.

NATIVE mode

When moire patterns or lines of uneven thickness appear on the projected image, these symptoms may be improved by displaying it in its original image size (NATIVE mode). To display the image in the NATIVE mode, set ASPECT of the FEATURE menu to NATIVE. (See page 22 for menu setting.)

• In the NATIVE mode, you cannot change the magnification factor and magnification range.
• Images of which resolution is larger than the panel resolution cannot be displayed in the NATIVE mode.
• In the NATIVE mode, images are black-framed when the image resolution is lower than the panel resolution.

MITSUBISHI ELECTRIC CORPORATION

1 Zusho Baba, Nagaokakyo-City, Kyoto Japan

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