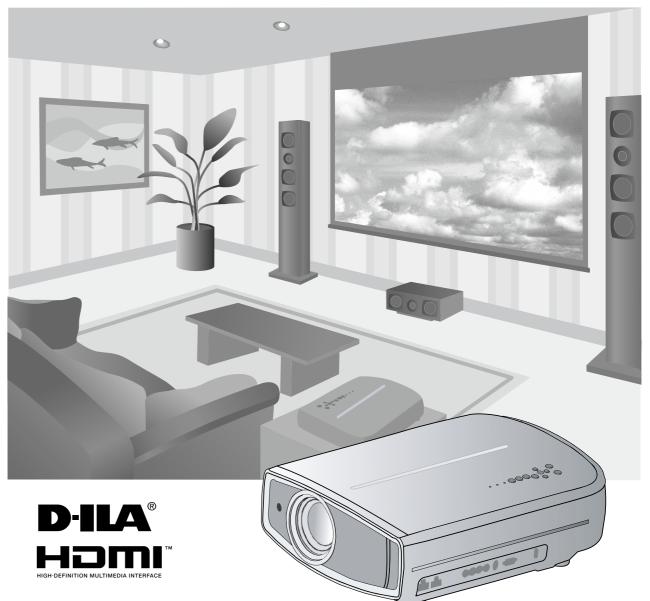
JVC

INSTRUCTIONS MANUEL D'INSTRUCTIONS MANUAL DE INSTRUCCIONES

ENGLISH FRANÇAIS ESPAÑOL/CASTELLANO

D-ILA PROJECTOR PROJECTEUR D-ILA PROYECTOR D-ILA DLA-HD350



For Customer use :

Enter below the serial No. which is located on the side of the cabinet. Retain this information for future reference.

Model No. DLA-HD350

Serial No.

Pour utilisation par le client :

Entrer ci-dessous le N° de série qui est situé sous le boîtier. Garder cette information comme référence pour le futur.

N° de modèle DLA-HD350

N° de série

Instrucción para el cliente :

Introduzca a continuación el nº de serie que aparece en la parte inferior lateral de la caja. Conserve esta información como referencia para uso ulterior.

Modelo Nº DLA-HD350

Nº de serie

DLA-HD350

DLA-HD350

D-ILA PROJECTOR
PROJECTEUR D-ILA
PROYECTOR D-ILA



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1108TTH-AO-AO

Safety Precautions

IMPORTANT INFORMATION

This product has a High Intensity Discharge (HID) lamp that contains mercury.

Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities or for USA, the Electronic Industries Alliance: http://www.eiae.org.

WARNING:

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

WARNING:

THIS APPARATUS MUST BE EARTHED.

CAUTION:

To reduce the risk of electric shock, do not remove cover. Refer servicing to qualified service personnel.

This projector is equipped with a 3-blade grounding type plug to satisfy FCC rule. If you are unable to insert the plug into the outlet, contact your electrician.

FCC INFORMATION (U.S.A. only)

CAUTION:

Changes or modification not approved by JVC could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encourage to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

MACHINE NOISE INFORMATION (Germany only)

Changes Machine Noise Information Ordinance 3. GSGV, January 18, 1991: The sound pressure level at the operator position is equal or less than 19 dB (A) according to ISO 7779.

About the installation place

Do not install the projector in a place that cannot support its weight securely.

If the installation place is not sturdy enough, the projector could fall or overturn, possibly causing personal injury.

IMPORTANT SAFEGUARDS

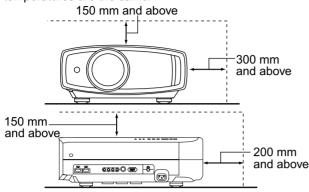
Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD. In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these Important Safeguards carefully before use.

- All the safety and operating instructions should be read before the product is operated.
- The safety and operating instructions should be retained for future reference.
- All warnings on the product and in the operating instructions should be adhered to.
- All operating instructions should be followed.
- Place the projector near a wall outlet where the plug can be easily unplugged.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use attachments not recommended by the product manufacturer as they may be hazardous.
- Do not use this product near water. Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer. PORTABLE CART WARNING
- When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the product and cart to overturn, damaging equipment or causing possible injury to the operator.



Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)

To allow better heat dissipation, keep a clearance between this unit and its surrounding as shown below. When this unit is enclosed in a space of dimensions as shown below, use an air-conditioner so that the internal and external temperatures are the same.



- power source indicated on the label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.
- 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 doors, plugs, receptacles, and the point where they exit from the product.
- For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.
- Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
- Never push objects of any kind into this product through openings 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 product.
- Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.
- Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions:
 - a) When the power supply cord or plug is damaged.
 - b) If liquid has been spilled, or objects have fallen on the product.
 - c) If the product has been exposed to rain or water.
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e) If the product has been dropped or damaged in any way.
 - f) When the product exhibits a distinct change in performance this indicates a need for service.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- The product should be placed more than one foot away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.
- When connecting other products such as VCR's, and DVD players, you should turn off the power of this product for protection against electric shock.
- Do not place combustibles behind the cooling fan. For example, cloth, paper, matches, aerosol cans or gas lighters that present special hazards when over heated.
- Do not look into the projection lens while the illumination lamp is turned on. Exposure of your eyes to the strong light can result in impaired eyesight.
- Do not look into the inside of this unit through vents (ventilation holes), etc. Do not look at the illumination lamp directly by opening the cabinet while the illumination lamp is turned on. The illumination lamp also contains ultraviolet rays and the light is so powerful that your eyesight can be impaired.
- Do not drop, hit, or damage the light-source lamp (lamp unit) in any way. It may cause the light-source lamp to break and lead to injuries. Do not use a damaged light source lamp. If the light-source lamp is broken, ask your dealer to repair it. Fragments from a broken light-source lamp may cause injuries.
- The light-source lamp used in this projector is a high pressure mercury lamp. Be careful when disposing of the light-source lamp. If anything is unclear, please consult your dealer.
- Do not ceiling-mount the projector to a place which tends to vibrate; otherwise, the attaching fixture of the projector could be broken by the vibration, possibly causing it to fall or overturn, which could lead to personal injury.
- Use only the accessory cord designed for this product to prevent shock.

*DO NOT allow any unqualified person to install the unit.

Be sure to ask your dealer to install the unit (e.g. attaching it to the ceiling) since special technical knowledge and skills are required for installation. If installation is performed by an unqualified person, it may cause personal injury or electrical shock.



Safety Precautions (Continued)

POWER CONNECTION

For USA and Canada only Use only the following power cord.

Power cord



The power supply voltage rating of this product is AC110V – AC240V. Use only the power cord designated by our dealer to ensure Safety and EMC.

Ensure that the power cable used for the projector is the correct type for the AC outlet in your country. Consult your product dealer.

Power cord





For United Kingdom

For European continent countries

WARNING:

Do not cut off the main plug from this equipment.

If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter or consult your dealer.

If nonetheless the mains plug is cut off, dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the main supply. If a new main plug has to be fitted, then follow the instruction given below.

WARNING:

THIS APPARATUS MUST BE EARTHED.

IMPORTANT (Europe only):

The wires in the mains lead on this product are colored in accordance with the following cord:

Green-and-yellow: Earth
Blue: Neutral
Brown: Live

As these colors may not correspond with the colored making identifying the terminals in your plug, proceed as follows:

The wire which is colored green-and-yellow must be connected to the terminal which is marked M with the letter E or the safety earth or colored green or green-and-yellow.

The wire which is colored blue must be connected to the terminal which is marked with the letter N or colored black.

The wire which is colored brown must be connected to the terminal which is marked with the letter L or colored red.

POWER CONNECTION (United Kingdom only)

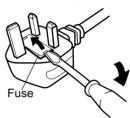
HOW TO REPLACE THE FUSE:

When replacing the fuse, be sure to use only a correctly rated approved type, re-fit the fuse cover.

IF IN DOUBT —— CONSULT A COMPETENT ELECTRICIAN.

Open the fuse compartment with the blade screwdriver, and replace the fuse.

(* An example is shown in the illustration below.)



Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:

JVC Technical Services Europe GmbH

Postfach 10 05 04

61145 Friedberg

Germany

1-0-0-0-0

ENGLISH

Information for Users on Disposal of Old Equipment and Batteries



Products



Battery

[European Union only]

These symbols indicate that equipment with these symbols should not be disposed of as general household waste. If you want to dispose of the product or battery, please consider the collection systems or facilities for appropriate recycling.

Notice: The sign Pb below the symbol for batteries indicates that this battery contains lead.

DEUTSCH

Benutzerinformationen zur Entsorgung alter Geräte und Batterien





Batterie

[Nur Europäische Union]

Diese Symbole zeigen an, dass derartig gekennzeichnete Geräte nicht als normaler Haushaltsabfall entsorgt werden dürfen. Wenden Sie sich zur Entsorgung des Produkts oder der Batterie an die hierfür vorgesehenen Sammelstellen oder Einrichtungen, damit eine fachgerechte Wiederverwertung möglich ist.

Produkte

Hinweis: Das Zeichen Pb unterhalb des Batteriesymbols gibt an, dass diese Batterie Blei enthält.

FRANÇAIS

Informations relatives à l'élimination des appareils et des piles usagés, à l'intention des utilisateurs





[Union européenne seulement]

Si ces symboles figurent sur les produits, cela signifie qu'ils ne doivent pas être jetés comme déchets ménagers. Si vous voulez jeter ce produit ou cette pile, veuillez considérer le système de collection de déchets ou les centres de recyclage appropriés.

Notification: La marque Pb en dessous du symbole des piles indique que cette pile contient du plomb.

Produits

NEDERLANDS

Informatie voor gebruikers over het verwijderen van oude apparatuur en batterijen





[Alleen Europese Unie]

Deze symbolen geven aan dat apparatuur met dit symbool niet mag worden weggegooid als algemeen huishoudelijk afval. Als u het product of de batterij wilt weggooien, kunt u inzamelsystemen of faciliteiten voor een geschikte recycling gebruiken.

Batterij

Opmerking: Het teken Pb onder het batterijsymbool geeft aan dat deze batterij lood bevat.

Producten



ESPAÑOL / CASTELLANO

Información para los usuarios sobre la eliminación de baterías/pilas usadas



Productos



Baterías/pilas

[Sólo Unión Europea]

Estos símbolos indican que el equipo con estos símbolos no debe desecharse con la basura doméstica. Si desea desechar el producto o batería/pila, acuda a los sistemas o centros de recogida para que los reciclen debidamente.

Atención: La indicación Pb debajo del símbolo de batería/pila indica que ésta contiene plomo.

ITALIANO

Informazioni per gli utenti sullo smaltimento delle apparecchiature e batterie obsolete [Solo per l'Unione Europea]





Batteria

Questi simboli indicano che le apparecchiature a cui sono relativi non devono essere smaltite tra i rifiuti domestici generici. Se si desidera smaltire questo prodotto o questa batteria, prendere in considerazione i sistemi o le strutture di raccolta appropriati per il riciclaggio corretto.

Nota: Il simbolo Pb sotto il simbolo delle batterie indica che questa batteria contiene piombo.

Prodotti

PORTUGUÊS

Informação para os utilizadores acerca da eliminação de equipamento usado e pilhas





Pilha

[Apenas União Europeia]

Estes símbolos indicam que o equipamento com estes símbolos não deve ser eliminado juntamente com o restante lixo doméstico. Se pretende eliminar o produto ou a pilha, utilize os sistemas de recolha ou instalações para uma reciclagem apropriada.

Aviso: O sinal Pb abaixo do símbolo para pilhas indica que esta pilha contém chumbo.

Produtos

ΕΛΛΗΝΙΚΑ

Πληροφορίες για την απόρριψη παλαιού εξοπλισμού και μπαταριών





[Ευρωπαϊκή Ένωση μόνο]

Αυτά τα σύμβολα υποδηλώνουν ότι ο εξοπλισμός που τα φέρει δεν θα πρέπει να απορριφθεί ως κοινό οικιακό απόρριμμα. Εάν επιθυμείτε την απόρριψη αυτού του προϊόντος ή αυτής της μπαταρίας, χρησιμοποιήστε το σύστημα περισυλλογής ή εγκαταστάσεις για ανάλογη ανακύκλωση.

Μπαταρία

Σημείωση: Το σύμβολο Pb κάτω από το σύμβολο μπαταρίας υποδηλώνει ότι η μπαταρία περιέχει μόλυβδο.

Προϊόντα

DANSK

Brugerinformation om bortskaffelse af gammelt udstyr og batterier





[Kun EU]

Disse symboler angiver, at udstyr med disse symboler ikke må bortskaffes som almindeligt husholdningsaffald. Hvis du ønsker at smide dette produkt eller batteri ud, bedes du overveje at bruge indsamlingssystemet eller steder, hvor der kan ske korrekt

Produkter

Batteri

Bemærk: Tegnet Pb under symbolet for batterierne angiver, at dette batteri indeholder

SUOMI

Tietoja vanhojen laitteiden ja akkujen hävittämisestä





[Vain Euroopan unioni]

Nämä symbolit ilmaisevat, että symboleilla merkittyä laitetta ei tulisi hävittää tavallisen kotitalousjätteen mukana. Jos haluat hävittää tuotteen tai sen akun, tee se hyödyntämällä akkujen keräyspisteitä tai muita kierrätyspaikkoja.

Huomautus: Akkusymbolin alapuolella oleva Pb-merkintä tarkoittaa, että akku sisältää lyijyä.

Tuotteet

SVENSKA

Information för användare gällande bortskaffning av gammal utrustning och batterier





[Endast den Europeiska unionen]

Dessa symboler indikerar att utrustning med dessa symboler inte ska hanteras som vanligt hushållsavfall. Om du vill bortskaffa produkten eller batteriet ska du använda uppsamlingssystem eller inrättningar för lämplig återvinning.

Observera! Märkningen Pb under symbolen för batterier indikerar att detta batteri innehåller bly.

Produkter

NORSK

Opplysninger til brukere om kassering av gammelt utstyr og batterier





Batteri

[Bare EU]

Disse symbolene viser at utstyr med dette symbolet, ikke skal kastes sammen med vanlig husholdningsavfall. Hvis du vil kassere dette produktet eller batteriet, skal du vurdere å bruke innsamlingssystemene eller andre muligheter for riktig gjenbruk.

Merk: Tegnet Pb under symbolet for batterier, viser at batteriet inneholder bly.

Produkter



РУССКИЙ

Сведения для пользователей по утилизации старого оборудования и батарей





Батарея

[только для Европейского союза]

Данные символы указывают на то, что оборудование, на которое они нанесены, не должны утилизироваться, как обычные бытовые отходы. При необходимости утилизировать такое изделие или батарею обратитесь в специальный пункт сбора для их надлежащей переработки.

Уведомление: Надпись Рb под символом батарей указывает на то, что данная батарея содержит свинец.

Изделия

ČESKY

Informace pro uživatele k likvidaci starého zařízení a baterií





Baterie

[Pouze Evropská unie]

Tyto symboly označují, že produkty s těmito symboly se nesmí likvidovat jako běžný odpad. Pokud chcete produkt nebo baterii zlikvidovat, využijte sběrný systém nebo jiné zařízení, které zajstí řádnou recyklaci.

Upozornění: Značka Pb pod symbolem pro baterie znamená, že tato baterie obsahuje olovo.

Produkty

Informacje dla użytkowników dotyczące pozbywania się zużytego sprzętu i baterii





Bateria

[Tylko kraje Unii Europejskiej]

Te symbole oznaczają, że sprzętu nie należy wyrzucać razem z odpadami gospodarczymi. Jeśli trzeba pozbyć się tego produktu lub ba terii, proszę skorzystać z systemu odbioru lub urządzeń do zbiórki odpadów elektronicznych, w celu odpowiedniego ponownego ich przetworzenia.

Uwaga: Oznaczenie Pb, znajdujące się pod symbolem baterii wskazuje, że ta bateria zawiera ołów.

Produkty

MAGYAR

POLSKI

Felhasználói információ az elhasznált berendezések és akkumulátorok elhelyezéséről





[Csak az Európai Unióban]

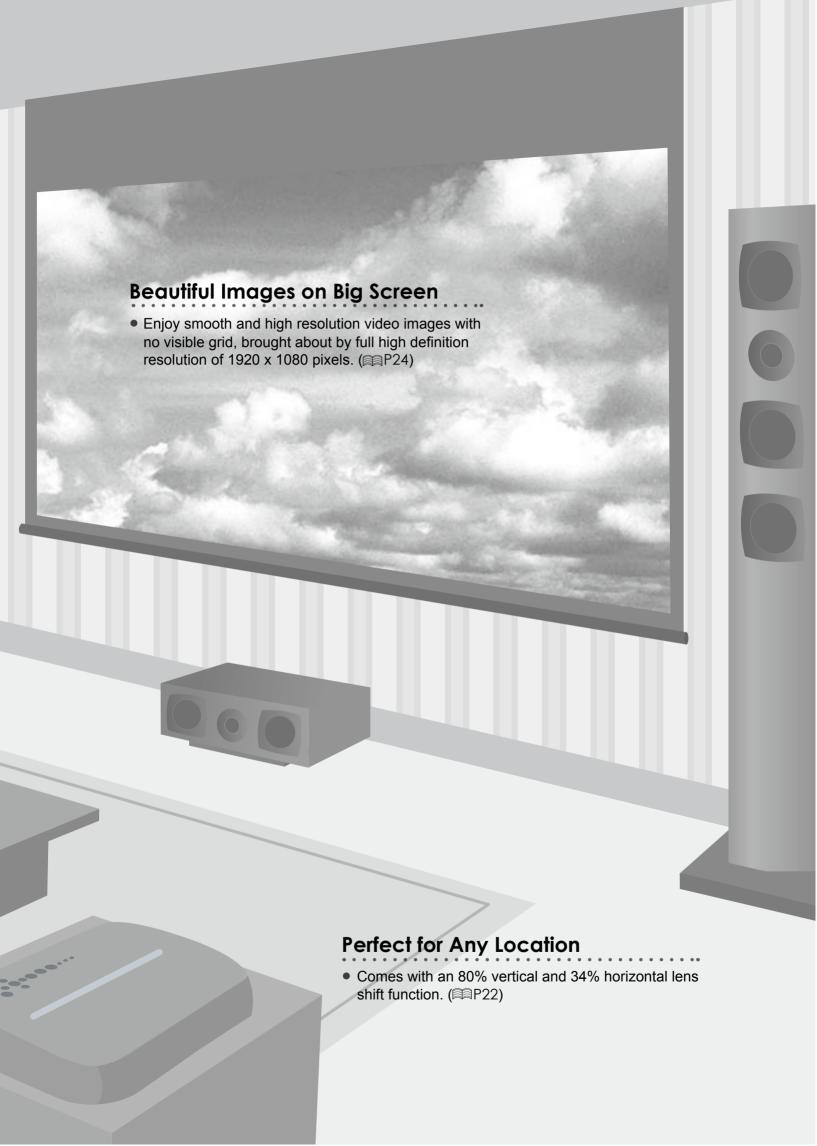
Ez a szimbólum azt jelzi, hogy a berendezés nem helyezhető az általános háztartási hulladék közé. Ha meg szeretne szabadulni a terméktől vagy az akkumulátortól, akkor legyen tekintettel az gyűjtő rendszerre vagy intézményekre a megfelelő hasznosítás

Akkumulátor

Megjegyzés: Az alábbi Pb szimbólum - ha az akkumulátoron megtalálható - azt jelzi, hogy az akkumulátor ólmot tartalmaz.

Termékek







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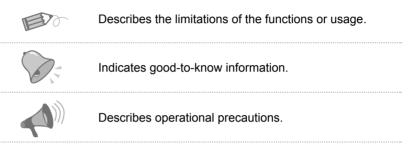


Buttons to be used are colored in a darker shade.

This manual mainly describes the operating method using the remote control.

- Buttons on the remote control are described as [Button Name].
- Items on the menu are described as "Selection Item".

■ Conventions in this manual



P13 Indicate

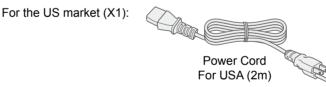
Indicates relevant pages for reference.

Check the Accessories

The power cord supplied varies depending on the destination.



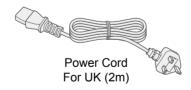
Remote Control

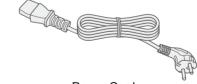






AAA size Batteries (for operation confirmation)





Power Cord For European continent countries (2m)

• Instruction manual, warranty card and other printed material are also included.

Optional Accessories

Please check with your authorized dealer for details.

- Replacement Lamp: BHL5010-S (Lamp Unit)
- Replacement Filter (black in appearance): PB006560999 (Inner Filter)
 Replacement Filter (white in appearance): PB006575099 (Inner Filter)



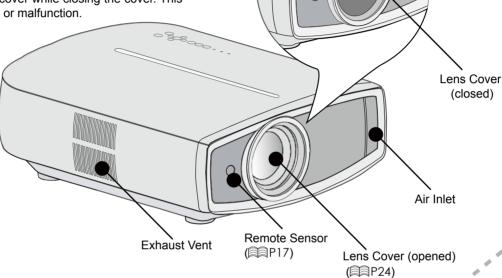
Controls and features

■ Front Side/Left Side

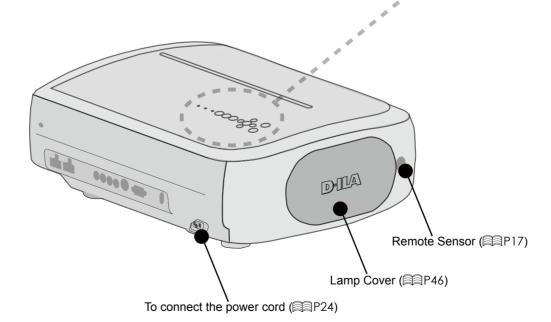


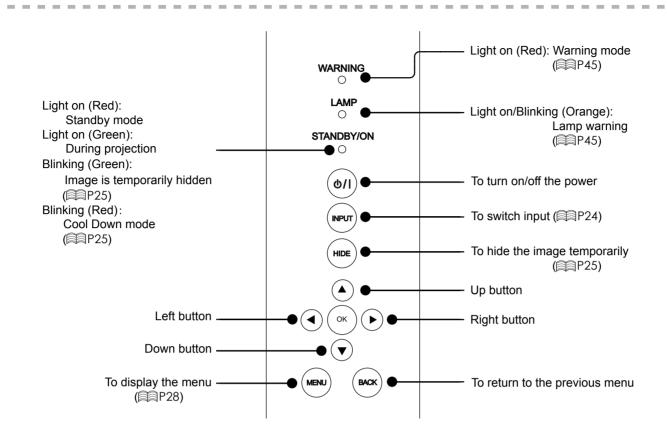
 Do not place your fingers in the gap at the lens during lens shift adjustment. This may cause injuries if your fingers are caught in between the gap.

• Do not let your fingers or other objects get caught in between the lens cover while closing the cover. This can cause injuries or malfunction.



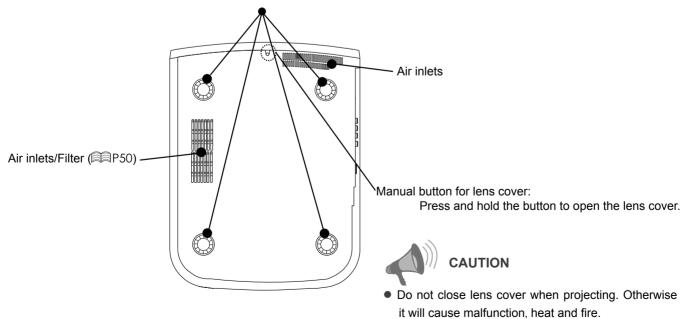
■ Rear Side/Top Side/Right Side





■ Bottom Surface

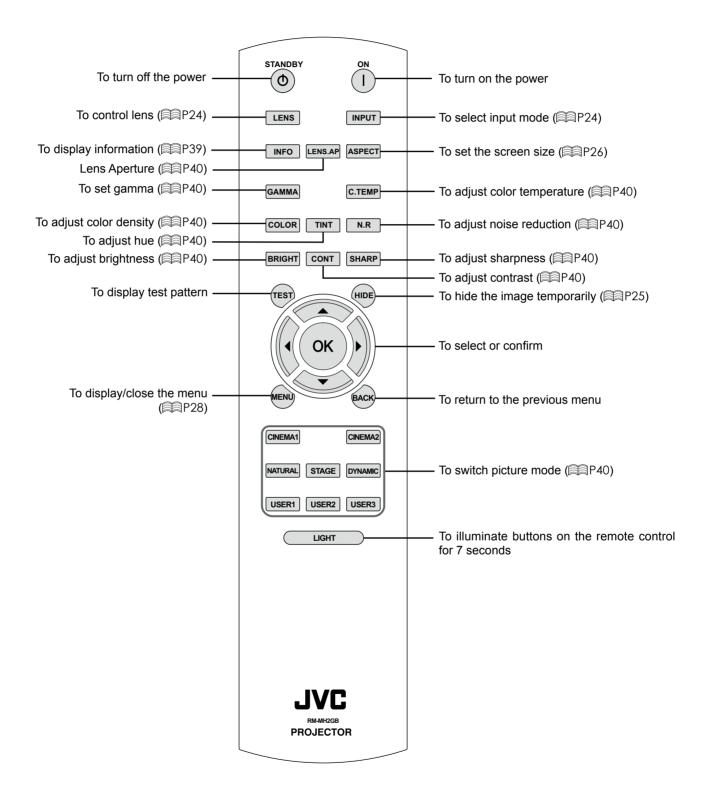
Feet: The height (0 to 5 mm) can be adjusted by turning the foot.





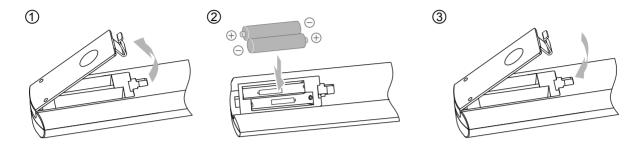
Controls and features (continued)

■ Remote Control



How to Use the Remote control

Loading Batteries

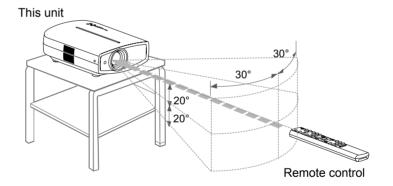


- If the remote control has to be brought closer to the projector to operate, it means that the batteries are wearing out. When this happens, replace the batteries. Insert the batteries according to the ⊕ ⊖ marks.
- Be sure to insert the
 end first.
- If an error occurs when using the remote control, remove the batteries and wait for 5 minutes. Load the batteries again and operate the remote control.

Effective Range of Remote Control Unit

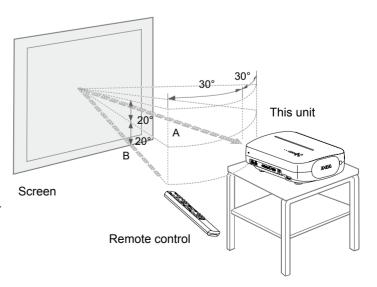
■ When directing the remote control toward this unit

- When aiming the remote control towards the remote sensor on this unit, ensure that the distance to the sensor in front or at the rear of this unit is within 7 m.
- If the remote control fails to work properly, move closer to this unit.



■ When reflecting off a screen

- Ensure that the total of distance A between this unit and screen and distance B between remote control and screen is within 7 m.
- As the efficiency of signals reflected from the remote control unit differ with the type of screen used, operable distance may decrease.



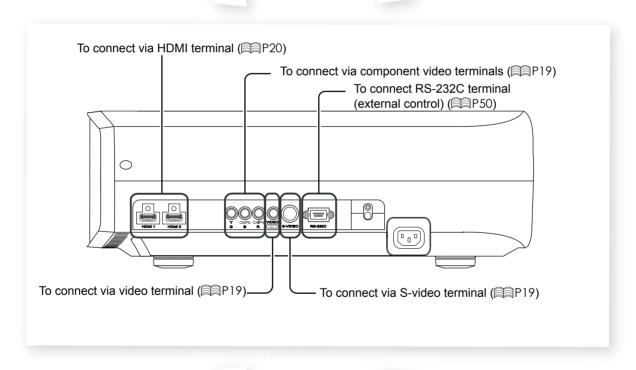


Selecting Connecting Devices

- Do not turn on the power until connection is complete.
- The connection procedures differ according to the device used. For details, refer to the instruction manual of the device to be connected.
- For audio output, connect the device to an amplifier.
- The images may not be displayed depending on the devices and cables to be connected.

 Use an HDMI compliant cable (sold separately) with the HDMI logo.
- It may not be possible to connect to this unit depending on the dimension of the connector cover of the cables to be connected.





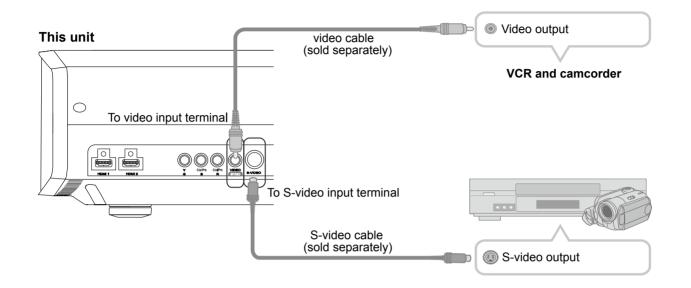




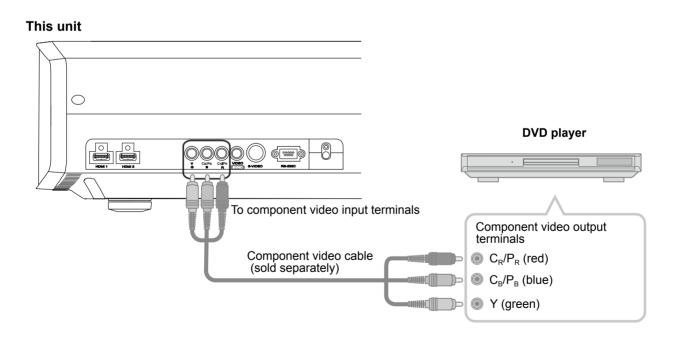


Connecting

Connecting via Video Cable and S-Video Cable



Connecting via Component Video Cable

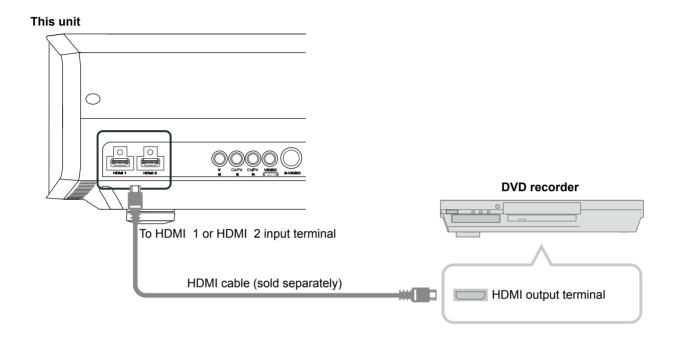


• Set "COMP." in the setting menu to "Y Pb/Cb Pr/Cr". (P33 - 12)

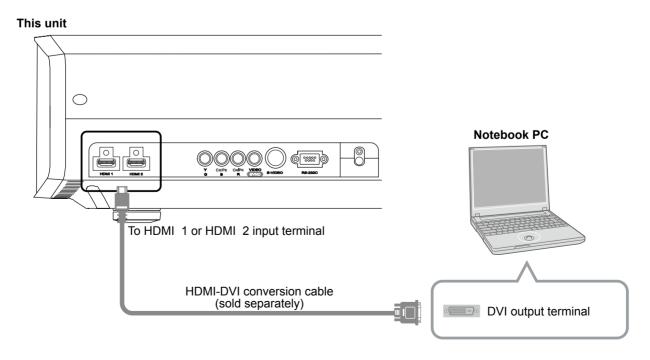


Connecting(Continued)

Connecting via HDMI Cable

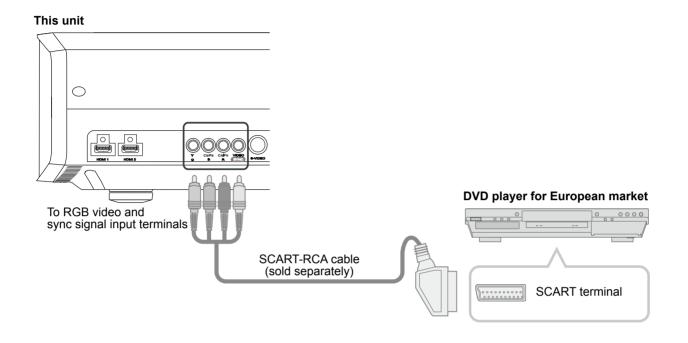


Connecting via HDMI-DVI Conversion Cable



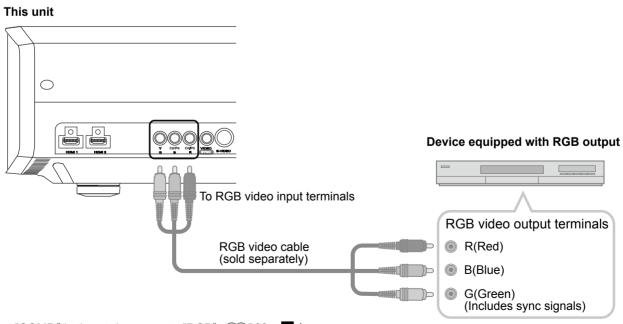
• If noise is produced, take PCs (including notepads) away from this unit.

Connecting via SCART-RCA Cable



• Set "COMP." in the setting menu to "SCART". (P33 - 12)

Connecting via RGB Video Cable



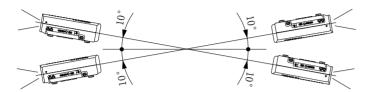
- Set "COMP." in the setting menu to "RGB". (P33 12)
- For information on compatible input signals, see "Specifications". (P56)

Installing the Projector and Screen

While installing, please place this unit and the screen perpendicular to each other. Failing to do so may increase trapezoidal distortion. Please refer to "Keystone". () 24)

Set Angle

• The angle range which can be set for this unit is ±10°.



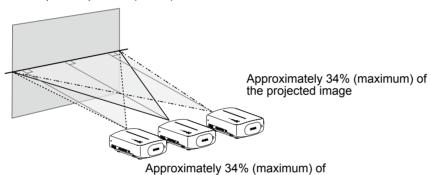
• Malfunctions may occur if the angle is not set within the above-mentioned range.

Shift Adjustment



Installing the projector and screen

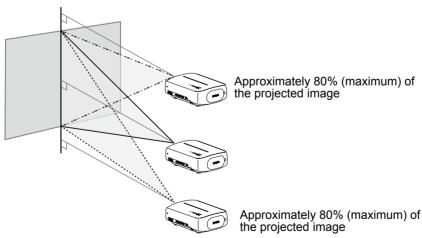
- Left/Right position
 - * 0% up/down position (center)



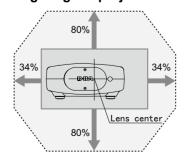
the projected image

■ Up/Down position

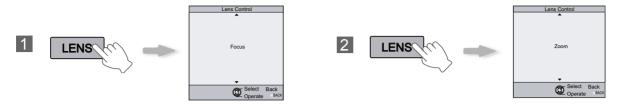
* 0% left/right position (center)

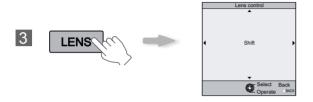


■ Shifting range of projected image



2 Adjust such that the projected image is in the center of the screen





Adjust the image position to the center of the screen by pressing



(the up, down, left and right buttons).

• It may be necessary to set "Pixel Adjust" in the setting menu after adjusting the image position. (P36 - 22)

Screen Size and Projection Distance

Determine the distance from the lens to the screen to achieve your desired screen size. This unit uses a 2.0x power zoom lens for projection.

■ Relationship Between Projection Screen Size and Projection Distance

Projection Screen Size (Diagonal Length) Aspect Ratio 16:9	Approximate Projection Distance W (Wide) to T (Tele)
60" (Approx. 1.52m)	Approx. 1.78m to Approx. 3.66m
70" (Approx. 1.78m)	Approx. 2.09m to Approx. 4.28m
80" (Approx. 2.03m)	Approx. 2.40m to Approx. 4.89m
90" (Approx. 2.29m)	Approx. 2.70m to Approx. 5.51m
100" (Approx. 2.54m)	Approx. 3.01m to Approx. 6.13m
110" (Approx. 2.79m)	Approx. 3.31m to Approx. 6.75m
120" (Approx. 3.05m)	Approx. 3.62m to Approx. 7.36m
130" (Approx. 3.30m)	Approx. 3.92m to Approx. 7.98m

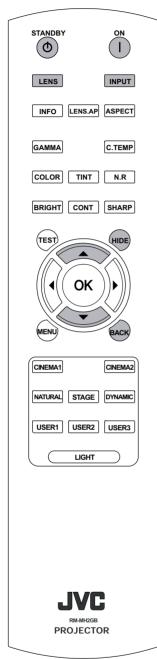
(Diagonal Length) Aspect Ratio 16:9	Approximate Projection Distance W (Wide) to T (Tele)
140" (Approx. 3.56m)	Approx. 4.23m to Approx. 8.60m
150" (Approx. 3.81m)	Approx. 4.53m to Approx. 9.22m
160" (Approx. 4.06m)	Approx. 4.84m to Approx. 9.84m
170" (Approx. 4.32m)	Approx. 5.14m to Approx. 10.45m
180" (Approx. 4.57m)	Approx. 5.45m to Approx. 11.07m
190" (Approx. 4.83m)	Approx. 5.75m to Approx. 11.68m
200" (Approx. 5.08m)	Approx. 6.06m to Approx. 12.30m

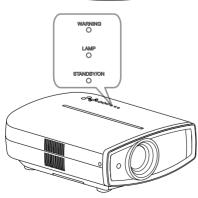
- The projection distances in the table are provided only as a guide. Use them as a reference during installation.
- To adjust the installation, use a projected image of aspect ratio 16:9.



Projecting Image

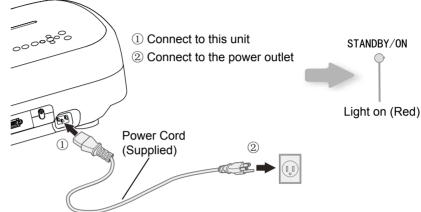
This section describes the basic operations to project input images on the screen.





Preparation

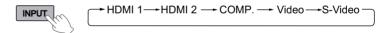




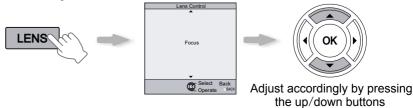
Turn on the power



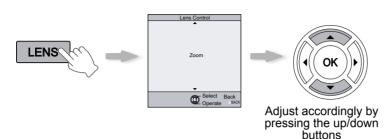
- You can also press the bill button on the unit to turn on the power.
 P15)
- The lens cover will be opened.
- 3 Project the image
 - Select input mode



- You can also select the input mode by pressing the putton on the unit. (P15)
- 2 Play back the selected device
- Adjust the position of the projection screen
 - See "Installing the Projector and Screen" (P22) and "Lens Control" (P36 21) for the adjustment method.
- 6 Adjust the image size (zoom) and the focus
 - 1 Adjust the focus



2 Adjust the image size (zoom)



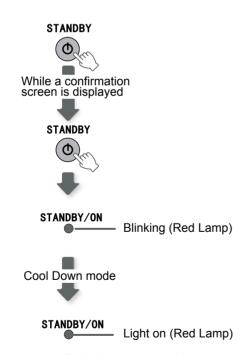
• Every time the LENS button is pressed, the adjustment item will be switched among "Focus", "Zoom" and "Shift".



3 To end



6 Turn off the power



- When power off, the lens cover will be closed.
- The power cannot be turned off within approximately 90 seconds after it has been turned on. Start operation only after 90 seconds time.
- You can also press the (6/1) button on the unit to turn off the power. (AP15)
- Pull out the power plug when the unit will not be used for a prolonged time.



You can hide the image temporarily

You can hide the image temporarily.



- Press the hidden. button again to display image.
- The power cannot be turned off when the image is temporarily hidden.



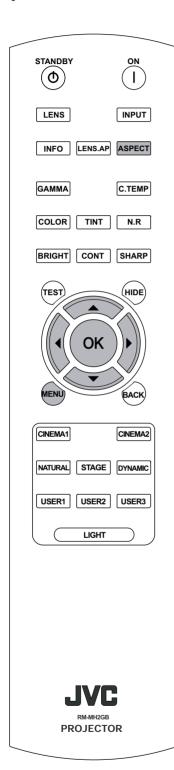
About Cool Down mode

- The Cool Down mode is a function to cool down the lamp for approximately 60 seconds after projection is complete. This function prevents the internal parts of the unit from deformation or damage due to overheating of the lamp. It also prevents lamp blowout and premature shortening of lamp life.
- During Cool Down mode, the [STANDBY/ ON] indicator blinks in red.
- After the Cool Down mode is complete, the unit automatically returns to standby mode.
- Do not pull out the power plug during Cool Down mode. This may shorten the lamp life and cause a malfunction.

-0-0-3-0-0-0

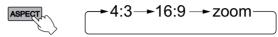
Convenient Features during Projection

You can change the screen size of the projected image or hide the surrounding area of an image for which quality at the outer area has deteriorated.



Setting the Screen Size

The projected image can be set to a most appropriate screen size (aspect ratio).



- The screen size can also be set from "Aspect(Video)" of the setting menu.
 P34 44)
- When PC signals are input, the "Aspect(Computer)" setting will be available instead. (P34 15)
- Input Image and Projected Image by Different Screen Size Settings

Input Image	Screen Size			
input image	4:3	16:9	Zoom	
SDTV(4:3)	Aspect Ratio: Same Most appropriate screen size	Aspect Ratio: Landscape Image is stretched horizontally	Aspect Ratio: Same Top and bottom of the image are missing	
SDTV(4:3) Image recorded in landscape (black bands on top and bottom) of DVD software	Aspect Ratio: Same Small image is projected	Aspect Ratio: Landscape Image is stretched horizontally	Aspect Ratio: Same Most appropriate screen size	

 Depending on the input image, selecting "4:3" may result in a vertically stretched image, while selecting "16:9" provides you with the most appropriate screen size.

Masking the Surrounding Area of an Image

Images for which quality at the outer area has deteriorated can be projected by masking (hiding) the surrounding area of the projected image.

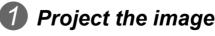




 Image for which quality at the outer area has deteriorated.



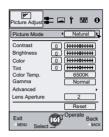


Mask the image

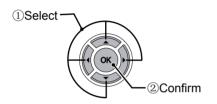
1 Display the setting menu

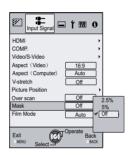




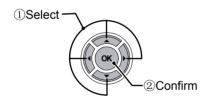


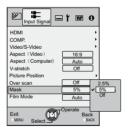
2 Select "Input Signal" → "Mask"





3 Set a mask value





Example: When the "Mask" value is changed from "Off" → "5%"



To end

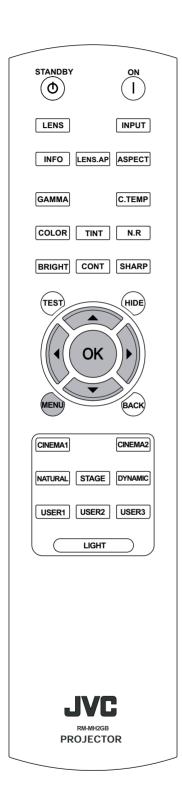




 Masking is available only when high definition images are input.

Setting Menu

Projected images can be adjusted to a desired view by changing the initial settings.



Procedures for Menu Operation

Example:

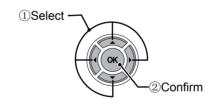
When changing "Aspect(Video)" from "4:3" to "16:9"

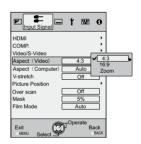




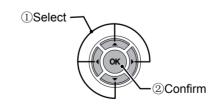


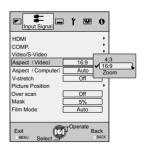
② Select "Input Signal" → "Aspect(Video)"





3 Set to "16:9"





4 To end



Setting Menu

Item values shown in _____ are factory settings.

• Items that can be configured differ according to the input signals.

Picture Adjust

01 Picture Mode

Adjusts the pattern of the projected image.

Cinema 1, Cinema 2, Natural, Stage, Dynamic, User 1, User 2 and User 3.

02 Contrast

Adjusts the contrast of the projected image.

(Black) -50 to 50 (White)

03 Brightness

Adjusts the brightness of the projected image.

(Darken) -50 to 50 (Brighten)

04 Color

Adjusts the color density of the projected image.

(Lighten) -50 to 50 (Darken)

05 Tint

Adjusts the hue of the projected image.

(Red) -50 to 50 (Green)

• "Contrast", "Brightness", "Color" and "Tint" can also be configured from the remote control. (@@P16)

Setting Menu (Continued)

cture Adjust > Color Temp.					
Color Temp.					
ets the color temperature of the projected image.					
5800K	Select this to gi image.	Select this to give a reddi image. Select this to have a bala Select this to give a bluisl image.			
6500K	Select this to ha				
7500K	I. •			Only offset can be set.	
9300K	Select this to gi than 7500K.	ve a grea	ater bluish tinge		
High Bright	Select this to ge	et the bri	ghtest image.		
		Red	(Less red) –255 to	o 0 (More red)	
	Gain (Bright part)	Green	(Less green) –255	5 to 0 (More green)	
Custom 1	(=g p.a)	Blue	(Less blue) –255	to 0 (More blue)	
Custom		Red	(Less red) –50 to 50 (More red)		
	Offset (Dark part)	Green	(Less green) –50 to 50 (More green)		
	(Sam pany	Blue	(Less blue) –50 to 50 (More blue)		
		Red	(Less red) -255 to	o 0 (More red)	
	Gain (Bright part)	Green	(Less green) –255 to 0 (More green)		
Custom 2	(Bright part)	Blue	(Less blue) –255 to 0 (More blue)		
Custom 2		Red	(Less red) -50 to	50 (More red)	
	Offset (Dark part)	Green	(Less green) –50 to 50 (More green)		
	(San part)	Blue	(Less blue) –50 to 50 (More blue)		
		Red	(Less red) –255 to 0 (More red)		
	Gain (Bright part)	Green	(Less green) –255 to 0 (More green)		
Custom 3	(=::9::: pa:::)	Blue	(Less blue) –255 to 0 (More blue)		
Custom 3	055	Red	(Less red) –50 to 50 (More red)		
	Offset (Dark part)	Green	(Less green) –50 to 50 (More green)		
	(Bank part)	Blue	(Less blue) –50 to 50 (More blue)		

- The red, green and blue colors can be adjusted and registered respectively.
- This setting can also be configured from the remote control. (P16)

Picture Adjust > Gamma

07 Gamma

Sets the gradation characteristics of the projected image.

9				
Normal	For normal circ setting.	umstances, select this		
Α	Set gamma to	"A".	Gamma adjustment cannot be performed,	
В	Set gamma to	"B".	and only copy is valid.	
С	Set gamma to	"C".		
	Three different	kinds of gamma can be set	according to your preferences.	
Custom 1 Custom 2 Custom 3	Correction Value	The coefficient (1.8 to 2.6) of the gamma curve can be selected.		
	Gamma Adjustment*	separately.	olors (Red, Green, Blue) can be adjusted ust for all "Red, Green, Blue" values. The value for "Green".	
(Gamma Setup)	Сору	Copy the adjusted gamma data.		
	Paste	Paste the copied gamma data.		
	Reset	Return the gamma coefficients to the values 2.2 set by "Correction Value".		

- "Normal" is suitable for normal circumstances but other settings can be selected according to your preferences.
- This setting can also be configured from the remote control. (P16)
- * "Gamma Adjustment"
 - \bigcirc Select the reference gamma curve coefficient (1.8 \sim 2.6) in "Correction Value".
 - ② Select the color to be adjusted in the gamma adjustment screen.



3 Adjust the gamma curve in the gamma curve adjustment screen.



Select the point where the gradation (brightness) is to be adjusted with the \P / \blacktriangleright buttons.



Adjust the gradation (brightness) with the \triangle / ∇ buttons.

 $\widehat{4}$ To end



• If gamma curve is adjusted repeatedly, calculation errors will be accumulated and the gamma curve may not be able to revert back to its original form. In that case, select "Reset".

Setting Menu (Continued)

Picture Adjust					
08 Advanced					
Adjusts the contours of the im	nage and detailed composit	tion of the image.			
	Sharpness	(Soft) 0 to 100 (Sharp)	Adjusts the outline of image.	
Sharpness	Detail Enhancement	(Soft) -50 to 50	(Strong)	Emphasizes the details of image.	
	RNR	(Soft) 0 to 16 (S	Strong)	Adjusts the intensity of removing image noise.	
NR*	MNR	(Soft) 0 to 16 (S	Strong)	Adjusts the intensity of removing mosquito noise.	
	DND	On		Reduces block noise.	
	BNR	Off		Input signal remains unchanged.	
	O	off	Input signa	Input signal remains unchanged.	
OTI:	Lo	ow			
CTI*	Mic	idle	Reduces color smear.		
	Hi	gh]		
9 Lens Aperture	<u> </u>		•		
		1		Dark	
Lens Aperture		2		Medium	
		3		Bright	
10 Reset			•		
Reset the setting.					

* In case of HD signals or PC signals, NR and CTI cannot be set.

Abbreviations

NR: Noise Reduction

RNR: Random Noise Reduction MNR: Mosquito Noise Reduction BNR: Block Noise Reduction CTI: Color Transient Improvement

		N.
()	()	

Inpu	nput Signal > HDMI				
11 H	TI HDMI				
Conf	Configures HDMI input signal.				
		Auto	Automatically configures the input signals.		
	Input	Standard	Select this when the dynamic range of the input images is 16-235.		
		Enhanced	Select this when the dynamic range of the input images is 0-255.		
		Auto	Automatically configures the input signals.		
	Color Space	YCbCr(4:4:4)	Select this when the Y Cb Cr(4:4:4) video signals are input.		
		YCbCr(4:2:2)	Select this when the Y Cb Cr(4:2:2) video signals are input.		
		RGB	Select this when the RGB video signals are input.		
	Control with UDMI	On	Enables CEC communications.		
	Control with HDMI	Off	Disables CEC communications.		

- The setting is available only if the HDMI terminal is selected.
- Abbreviation

CEC: Consumer Electronics Control

Inpu	Input Signal > COMP.			
12	12 COMP.			
Conf	Configures the input signal for the component video input terminals.			
		Y Pb/Cb Pr/Cr	Select this when the component video signals are input.	
	Color Space	RGB	Select this when the RGB video signals are input.	
			Select this when RGB video signals and sync signals are input via the SCART interface for European markets.	

• The setting is available only if the component video terminals are selected.

Inpu	ut Signal > Video/S-Vi	ideo	
13 \	/ideo/S-Video		
Conf	figures the Video/S-Video i	nput signals.	
	NTCC Catain Laural		Adjusts the gradation for signals without the 7.5 IRE setup.
	NTSC Setup Level	7.5IRE	Adjusts the gradation for signals with the 7.5 IRE setup.
• A	djust this only when NTSC	-	
		Auto	Configures the color system automatically.
		NTSC	Select this when the color system is NTSC.
		NTSC4.43	Select this when the color system is NTSC4.43.
	Color System	PAL	Select this when the color system is PAL.
		PAL-M	Select this when the color system is PAL-M.
		PAL-N	Select this when the color system is PAL-N.
		SECAM	Select this when the color system is SECAM.

• The setting is available only when the Video or S-Video input image is projected.

Setting Menu (Continued)

Inp	ut Signal > Aspect (Video)				
14	14 Aspect (Video)				
Conf	figures the screen size of the pro	ojected image.			
	4:3 Sets the screen size of the projected image as 4:3.				
	16:9 Sets the screen size of the projected image as 16:9.				
	Zoom Zooms the images. (This item cannot be selected in the case of HD signals.)				

- This setting can also be configured from the remote control. (P16)
- The items cannot be set in the case of PC signals.

Inp	Input Signal > Aspect (Computer)		
15 <i>1</i>	15 Aspect (Computer)		
Con	Configures the screen size of the projected image.		
	Auto	Enlarges the PC signal horizontally/vertically until it fits the panel height, and displays it in the original aspect ratio.	
	1:1	Displays the PC signal corresponding to the panel at one dot per pixel ratio. The PC screen can be shown in the original size.	
	Full	Enlarges the PC signal horizontally/vertically.	

- This setting can also be configured from the remote control. (P16)
- This setting cannot be set in the case of SD or HD signals.

Inpu	Input Signal > V-Stretch (when HD or SD video signals are input)		
16 \	16 V-Stretch		
Whe	When set to "On", the projected 2.35:1 image will be stretched vertically to the panel resolution.		
	On	The projected 2.35:1 image will be stretched vertically to the panel resolution.	
	Off	Projects the 2.35:1 image as-is. (Black bands will be displayed on the top and bottom.)	

• This setting cannot be set in the case of PC signals.



Input Signal > Picture Position 17 Picture Position Adjusts the horizontal/vertical position of the projected image.

• The position of the image varies depending on the input signals. The image of some signals may not be fully displayed. Adjust the position of image using this menu to display the image properly.

Inpu	nput Signal > Over Scan		
18 (18 Over Scan		
Sele	Selects whether or not to set over scan for the SD video signal.		
	On	Over scan the top, left, bottom and right at 2.5% each.	
	Off	Do not over scan.	

• This setting is not available when HD signal or PC signal is input.

Inpu	Input Signal > Mask		
19 N	19 Mask		
Mask	Masks (Hides) the outer area of the projected image.		
	2.5%	Mask 2.5% of the screen.	
	5%	Mask 5% of the screen.	
	Off	No masking.	

• Masking is available only when high definition images are input.

Inp	Input Signal > Film Mode		
20	20 Film Mode		
Sele	Selects this to view movies shot on film.		
	Auto	For normal circumstances, select this setting.	
	Off	Select this when you are not watching movies shot on film.	

• This setting is not available when a progressive signal is input.

Setting Menu (Continued)

Installation > Lens Cont	nstallation > Lens Control		
21 Lens Control	21 Lens Control		
Controls the individual motori	zed function of the lens when setting up the projector		
Focus	Function for adjusting the lens focus.		
Zoom	Function for adjusting the lens zoom.		
Shift	Function for adjusting lens shift. (Press the up/down/left/right button to shift the screen).		
Image Pattern	·		
On	Displays the image pattern in conjunction with the above setting items. Display for "Focus": (Picture of big green grids) (Picture of small green grids)		
Off	Do not display the image pattern.		
Lock			
On	Disables lens adjustment. A warning message appears when the [LENS] button on the remote control is pressed.		
Off	Enables lens adjustment.		

Inst	Installation > Pixel Adjust		
22 I	22 Pixel Adjust		
Make	Makes fine adjustments of 1 pixel unit for each minor color shift in the horizontal/vertical direction of the image.		
	Horiz. Red	(Move red to left) 1 to 7 (Move red to right)	
	Horiz. Green	(Move green to left) 1 to 7 (Move green to right)	
	Horiz. Blue	(Move blue to left) 1 to 7 (Move blue to right)	
	Vert. Red	(Move red down) 1 to 5 (Move red up)	
	Vert. Green	(Move green down) 1 to 5 (Moves green up)	
	Vert. Blue	(Move blue down) 1 to 5 (Move blue up)	

- The horizontal and vertical directions are reversed when the image is flipped to the left or right, or flipped up or down.
- To adjust, use still images with distinct outlines.
- As the adjustments are minor, the effect may be difficult to see for some images.

Inst	Installation > Installation Style			
23 I	23 Installation Style			
Flips	Flips the image to the left or right, up or down according to the projection state of the projector.			
	Front	Select this for tabletop front projection.		
	Ceiling Mount (F)	Select this for ceiling front projection.		
	Rear	Select this for tabletop rear projection.		
	Ceiling Mount (R)	Select this for ceiling rear projection.		

Installation > Keystone		
24 Keystone		
Compensates for trapezoidal distortion caused by installation.		

• Refer to "Installing the Projector and Screen". (P22)

Disp	Display Setup > Menu Display		
27 N	27 Menu Display		
Sets	Sets the duration for displaying the menu.		
15 sec Display for 15 seconds.		Display for 15 seconds.	
	On	Always display.	

Disp	Display Setup > Line Display		
28 L	28 Line Display		
Sets	Sets whether to display the input setting when switching the input.		
	5 sec Display for 5 seconds.		
	Off	Do not display.	

Disp	Display Setup > Source Display		
29 8	29 Source Display		
Sets	Sets whether to display the source of input signals when changing the input.		
	On Display the source of input signals.		
	Off	Do not display.	

Disp	Display Setup > Logo			
30 L	30 Logo			
Sets	Sets whether to display "Logo" during startup.			
	On Display for 5 seconds.			
	Off	Do not display.		

Setting Menu (Continued)

Display Setup > Language				
31 Language	Language			
Sets the language of the menu di	splay.			
日本語	Japanese			
English	English			
Deutsch	German			
Español	Spanish			
Italiano	Italian			
Français	French			
Português	Portuguese			
Nederlands	Dutch			
Svenska	Swedish			
Norsk	Norwegian			
Русский	Russian			
中文	Chinese			

Fun	Function > Lamp Power		
32 I	32 Lamp Power		
Configures the output of the light-source lamp.			
Normal For normal circumstances, select this		For normal circumstances, select this setting. (150W)	
	High	Select this when it is difficult to see the image in a bright room. (200W)	

- The setting cannot be changed within approximately 90 seconds after this unit has been turned on.
- Settings cannot be changed within approximately 60 seconds after they are made.

Function > Test Pattern
33 Test Pattern
Display 6 types of test patterns.

• This can also be displayed by the remote control. (P16)

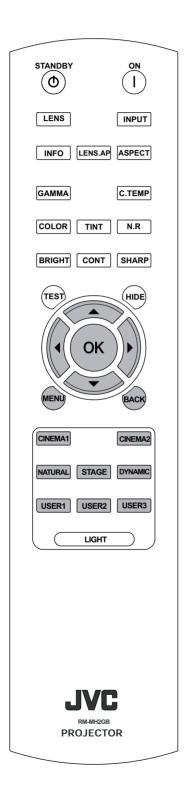
Fur	unction > Off Timer			
34	34 Off Timer			
Auto	Automatically powers off when there is no operation for a certain duration.			
	Off	Disables the off timer.		
	1 hour	Auto power off after 1 hour.		
	2 hours	Auto power off after 2 hours.		
	3 hours	Auto power off after 3 hours.		
	4 hours	Auto power off after 4 hours.		

Fun	Function > High Altitude Mode		
35 H	35 High Altitude Mode		
Sele	Selects this when using the projector in a location of low atmospheric pressure (higher than 900 meters above sea level).		
On Enable.		Enable.	
	Off	Disable.	

formation		
Input	Displays the currently selected video input.	
Source	Displays the type of the current video input signal. (If PC signal is input, this item cannot be displayed)	
Resolution	In the case of PC signal, the resolution is displayed.	
H Frequency	In the case of PC signal, the horizontal frequency is displayed.	
V Frequency	In the case of PC signal, the vertical frequency is displayed.	
Deep Color	Displays the bit depth (color depth) of the video signals input from the HDMI terminals. [Deep Color is not displayed when Y Cb Cr (4:2:2) is input.]	
Lamp Time	Displays the accumulated hours of usage of the light-source lamp.	

Customizing Projected Images

You can adjust the projected image to a desired image quality and register the adjusted value. (Picture Mode) Besides the five default "Cinema 1", "Cinema 2", "Natural", "Stage" and "Dynamic" settings, there are 3 more types of user-defined settings for Picture Mode.



Changing the Initial Setting of Picture Mode

"Contrast", "Brightness", "Color", "Tint", "Color Temp.", "Gamma", "Sharpness", "NR", "CTI" and "Lens aperture" are registered in the Picture Mode.





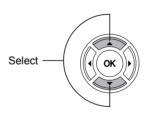
Adjust picture quality

Example: To adjust "Contrast"

1 Display the setting menu

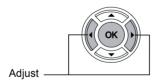


2 Select "Picture Adjust" → "Contrast"





3 Adjust the setting





4 To end the adjustments



- Other items can also be adjusted
- 4 To end



 "Contrast", "Brightness", "Color", "Tint", "Color Temp.", "Gamma", "Sharpness", "NR" and "Lens aperture" can also be adjusted from the remote control. (IP16)





Getting Started

Preparation

Registering User-defined Picture Mode

Select the picture mode

USER1

USER2

USER3

- Adjust picture quality
 - See "Changing the initial setting of picture Mode" for procedures on adjusting the picture quality. (P40)
- To end

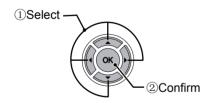


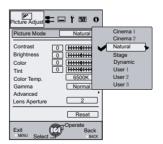
Registering User-defined Picture Mode from the Menu

- Adjust picture quality
 - See "Changing the Initial Setting of Picture Mode" for procedures on adjusting the picture quality. (P40)
- Display the setting menu



Select "Picture Adjust" → "Picture Mode" → "Natural"





Register the setting





CAUTION

Adjustment settings of image quality will not be registered if other picture mode is selected before registering these settings.

Basic Operation



Troubleshooting

Before sending the unit to your authorized dealer for repair, please check the following points.

The following situations are not malfunctions.

- You do not need to worry about the following situations if there is no abnormality on the screen.
 - Part of the top surface or front of the unit is hot.
 - A creaking sound is heard from the unit.
 - An operating sound is heard from the inside of the unit.
 - Color smear occurs on some screens.
- Perform the following operations when the unit is unable to operate normally due to external static or noise.
 - ① When the unit is in standby mode, please pull out the power plug, then insert again.
 - ② Press the power button on the unit to turn on the power again.
- A sound may be heard when the lamp is off but there is no danger.
- D-ILA device is manufactured using high-precision technology but there may be some missing pixels or pixels that remain permanently lit up.

Power is not supplied		
Is the power cord disconnected?	Insert the power cord (plug) firmly.	₽ 24
Is the lamp cover properly shut?	Remove the power plug when the unit is in standby mode and close the lamp cover properly. After that, insert the plug again.	≅ P47
Is the lamp in Cool Down mode?	After the Cool Down mode is complete, turn on the power again.	₽25

Projected image is dark		
Is the lamp near exhaustion?	Check the lamp time on the information menu. Prepare a new lamp unit or replace as soon as possible when the lamp is near exhaustion.	₽P46 to 48

The unit works when power is turned on but stops abruptly after a few minutes				
Are the air inlets and exhaust vent blocked? Remove the power plug when the unit is in standby mode and remove any blocking object. After that, insert the plug again.				
Is the filter dirty?	Clean the filter.	₽49		

Video image does not appear				
Is the correct external input selected?	Select the correct external input.	₽24		
Is the AV device properly connected?	Connect the AV device properly.	₽18 to 21		
Is the power of the AV device turned on?	Turn on the power of the AV device and play the video.	₽24		
Are the correct signals being output from the AV device?	Set the AV device properly.	₽18 to 21		
Is the setting of the input terminal correct?	Set "COMP." and "HDMI" in the setting menu according to the input signal.	P33 - 11 12		
Is the video image temporarily hidden?	Press the [HIDE] button to display the video image again.	₽25		

The image cannot output by HDMI terminal				
Is the setup of "Control with HDMI" function "Off"?	Set up the "Control with HDMI" function to "Off".	P33 - 11		

• Even if the "Control with HDMI" function is "On", there are still some devices cannot reveal image normally.

Color does not appear or looks strange				
Is the image correctly adjusted? Adjust "Color" and "Tint" in the setting menu.				

Video image is fuzzy				
Is the focus correctly adjusted?	Adjust the focus.	₽24		
Is the unit placed too near or too far away from the screen?	Set the unit at a correct distance from the screen.	₽22 to 23		

Video images are missing		
Has setting been performed for screen mask?	Set "Mask" in the setting menu to "Off".	P27, 35 - 19
Is the display out of position?	Alter the "Picture Position" value in the setting menu to ensure that images are not missing.	P34 - 17

Remote control does not work				
Are batteries installed correctly?	Match the polarities $(\oplus \text{ or } \ominus)$ correctly when inserting the batteries.	₽17		
Are batteries exhausted?	Replace with new batteries.	₽17		
Is there an obstructive object between the remote control and remote sensor?	Remove any obstructive objects.	₽ 17		
Is the remote control held too far away from the unit?	Hold the remote control closer to the sensor when using.	≅ P17		

Power is cut off suddenly		
Has setting been performed for off timer?	Set "Off Timer" in the setting menu to "Off".	₽38 - 34



What to Do When these Messages Are Displayed

Message	Cause (Details)
COMP.	No device is connected to the input terminal. The input terminal is connected but there is no signal.
No Input	➡Input the video signals.
	A video signal that cannot be used in this unit has been input.
COMP.	➡ Input video signals that can be used.
	* The names of input terminals such as COMP. will be displayed in yellow.
Lamp replacement	This message is displayed when the accumulated lamp time has exceeded 1900 hours. To clear the message, press the [Back] button.
Back BACK	Get ready a new lamp unit and replace as soon as possible. Reset the lamp time after replacing the lamp. (P46 to 48)

About Warning Indicators

The accumulated lamp time or warning mode of this unit is displayed by the indicators. For information on indicator display during normal operation, see "Controls and Features". (EP14)

		Indicat	or	Blinking	Blinking	Interval	Content	
No.	WARNING	LAMP	STANDBY/ON	•	Frequency	between Blinks		
1	-	ı	Light on (Red)	ı	-	-	During standby	
2	-	-	Light on (Green)	-	-	-	When the power on (Hide Off)	Indicator display
3	-	-	Blinking (Green)	0.5 second	continuous	-	When the power on (Hide On)	in normal conditions.
4	-	-	Blinking (Red)	0.5 second	continuous	-	During cool down	
5	-	Light on (orange)	-	-	-	-	Lamp replacement is near (() (When accumulated lamp tim exceeded 1900 hours)	e has
6	-	Light on (orange)	-	-	-	-	Lamp has reached the end of (P46 to 48) (When accumulated lamp timexceeded 2000 hours)	
7				0.25 second	1 time	0.75 second	Lamp does not light up and u unable to project	nit is
8	Light on (Red)	Blinking (orange)	-	0.25 second	2 times	0.75 second	Lamp is turned off during projection	
9				0.25 second	3 times	0.75 second	Lamp cover is removed	
10				0.25 second	1 time	0.75 second	Abnormalities in the power su	ipply
11				0.25 second	2 times	0.75 second	Cooling fan stops (cooling fan gets caught)	
12		-		0.25 second	3 times	0.75 second	Internal temperature is too high (abnormal internal temperature	·)
13	Blinking			0.25 second	4 times	0.75 second	External temperature is too hi (abnormal external temperatu	
14	(Red)		-	0.25 second	1 time	0.75 second	Abnormal electrical circuit (abnormal startup of drive circ	cuit)
15		Blinking		0.25 second	2 times	0.75 second	Abnormal electrical circuit (abnormal communication of drive circuit)	the
16		(orange)		0.25 second	3 times	0.75 second	Abnormal electrical circuit (abnormal drive circuit of image)	ge)
17				0.25 second	4 times	0.75 second	Abnormalities in the automati	c lens cover

Actions to Be Taken for Warning Mode

When the unit enters into warning mode (No. 7 to 17), it will automatically stop projection, and run the cooling fan for about 60 seconds.

After the cooling fan has stopped, pull out the power plug from the power outlet.

Then, follow the procedures below.

No.	Check	Action
7	Check that an impact shock has not accurred during appretion	
8	 Check that an impact shock has not occurred during operation. Check that the lamp unit and lamp cover are correctly installed. 	Turn on the power again.
9	 Check that nothing is blocking the auto lens cover. 	rum on the power again.
17	Check that nothing is blocking the data lens cover.	
10		
11		
12	Check that nothing is blocking the air inlets.	Leave the unit until it cools down.
13	Check that the external temperature is normal.	After that, turn on the power again.
14	• Official title external temperature is normal.	Alter that, turn on the power again.
15		
16		

If the warning indication is displayed again, please wait for the cooling fan stopped, then pull out the power plug from the power outlet. Then call your authorized dealer for repair.



Replacing the Lamp

The lamp is a consumable item. If the image is dark or the lamp is turned off, replace the lamp unit.

• When the lamp replacement time approaches, a message is displayed on the screen and the condition is indicated by the indicator. (@@P45)



CAUTION

- Pull the power plug from the power outlet. Failure to do so may cause injuries or electric shocks.
- Do not replace the lamp immediately after the unit has been used, and allow a cooling period of 1 hour or more before replacement. The temperature of the lamp is still high and this may cause a burn.
- Do not apply shock to the lamp unit. It may cause lamp blowout.
- Do not use flammable air duster to clean the internal parts of the unit. This may cause fire.



Usable Lamp Life

- The usable lamp life for this unit is approximately 2000 hours. The usable lamp life of 2000 hours is merely the average usable life of lamps and we do not provide any guarantee for this figure.
- The lamp life may not reach 2000 hours depending on the operating conditions.
- When the lamp has reached the end of its usable life, deterioration progresses rapidly.
- If the image is dark or the color tone is abnormal, replace the lamp unit as soon as possible.
- Setting "Lamp Power" to "Standard" will help to prolong the lamp life.

Purchasing the Lamp Unit

Please consult your authorized dealer.

■ Lamp Unit

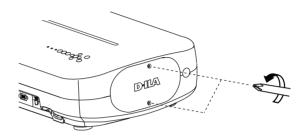
Part No.: BHL5010-S

Procedure for Lamp Replacement



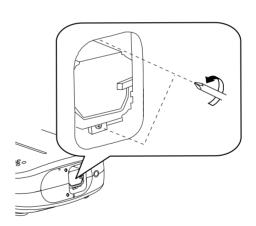
Remove the lamp cover

Remove the screws with a ⊕ screwdriver.



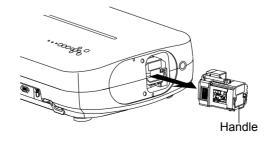
Loosen the screws on the lamp unit

• Loosen the screws with a (+) screwdriver.

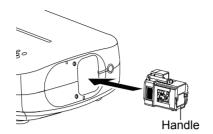


Pull out the lamp unit

• Grasp the handle and pull out the lamp unit.

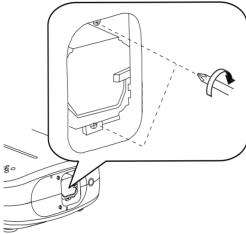


4 Install the new lamp unit



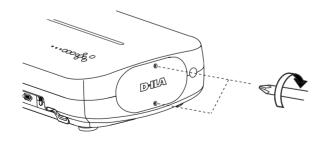
Tighten the screws of the new lamp unit

• Tighten the screws with a \oplus screwdriver.



6 Attach the lamp cover

- Insert the top part (with 2 claws) of the lamp cover into the unit.
- Fasten the screws with a \oplus screwdriver.





CAUTION

- Use only genuine replacement parts for the lamp unit. Also, never attempt to reuse an old lamp unit. This may cause a malfunction.
- Do not touch the surface of a new lamp.
 This may shorten the lamp life and cause lamp blowout.

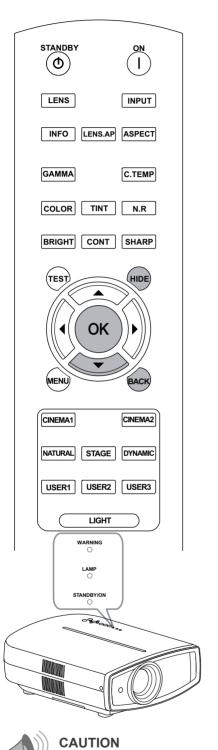


After Replacing the Lamp

- Do not place the removed lamp unit at locations that is reachable by children or near combustible items.
- Dispose used lamp units in the same way as fluorescent lamps. Follow your local community rules for disposal.



Replacing the Lamp (Continued)



- Reset the lamp time only when you have replaced the lamp.
- Never reset the service time when the lamp is still in use. Otherwise, the approximate standard for gauging replacement time may be inaccurate and lamp blowout may occur.

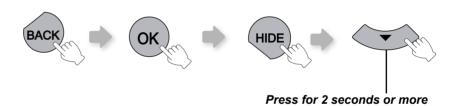
Resetting Lamp Time

After replacing the lamp, reset the lamp time.

Insert the power plug to the power outlet

STANDBY/ON Light on (Red)

- 2 Must operate with the remote control in the standby mode (the projector is powered, but is not turned on).
 - Press in the order as shown.
 - Press each button within 2-second intervals and press the last button for 2 seconds or more.



• [STANDBY/ON] indicator and [LAMP] indicator blink alternately for 3 seconds. After that, the unit switches to standby mode.

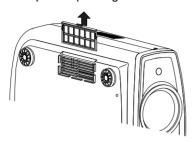
Cleaning and Replacing the Filter

Clean the filter regularly or air intake efficiency may deteriorate and malfunction may occur.



Remove the inner filter

Lift up while pushing the claw



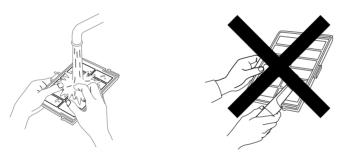


CAUTION

Pull the power plug from the power



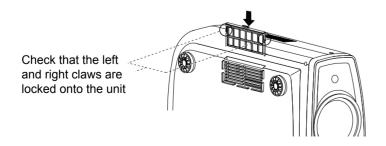
Clean the filter



- Wash the filter with water and dry it in a shaded area.
- In extremely soiled cases, using a neutral detergent is recommended. Put on rubber gloves when using a neutral detergent.
- After washing the filter with water, make sure that it is completely dry before reinstalling. Otherwise electric shock or malfunctions may occur.
- Do not clean the filter with a vacuum cleaner or air duster. The filter is soft and may be damaged.



Reinstall the inner filter





MEMO

If the filter is damaged or too dirty to be cleaned

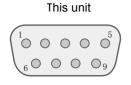
- Replace with a new filter. A dirty filter will dirty the internal parts of the unit and cause shadows on the video image.
- To purchase a new filter or when it is dirty in the internal parts, consult your authorized dealer.
- Inner Filter Part No.: Replacement Filter:

the appearance is black PB006560999 (Inner Filter) the appearance is white PB006575099 (Inner Filter)

RS-232C Interface

Control of this unit via a computer is possible by connecting the computer to this unit with a RS-232C cross cable (D-Sub 9 pin).

RS-232C Specifications



Pin No.	Signal	Function	Signal Direction
2	RxD	Receive data	PC→This unit
3	TxD	Transmit data	This unit→PC
5	GND	Signal ground	-
1,4,6 - 9	N/C	-	-

• PC refers to the controller such as a personal computer.

Mode	Non-synchronous
Character Length	8 bit
Parity	None
Start Bit	1
Stop Bit	1
Data rate	19200 bps
Data format	Binary



Command Format

The command between this unit and the computer consists of "Header", "Unit ID", "Command", "Data" and "End".

• Header (1 byte), Unit ID (2 bytes), Command (2 bytes), Data (n bytes), End (1 byte)

■ Header

This binary code indicates the start of communication.

Binary code	Туре	Description			
21	Operating command	PC→This unit			
3F	Reference command	PC→This unit			
40	Response command	This unit→PC			
06	ACK	This unit→PC (When the command is accepted without error, it returns to PC)			

■ Unit ID

This code specifies the unit. The binary code is fixed at "8901".

■ Command and data

Operating command and data (Binary code)

Command	Туре	Data description			
0000	Connection check	Check whether communication is available between this unit and the PC during standby.			
5057	Power supply	During standby 31: Turn on the power. During power on 30: Turn off the power. (Standby mode)			
4950	Input	During power on 30: S-VIDEO 31: VIDEO 32: COMP. 36: HDMI 1 37: HDMI 2			
5243	Remote Control	Sends the same code as the supplied remote control. • "Remote control code" (P52)			

Reference command and data (Binary code)

Command	Туре	Data description		
5057	Power supply	During standby or power on 30: Standby mode 31: Power-on mode 32: During Cool Down mode 34: Warning mode		
4950	Input	During power on 30: S-VIDEO 31: VIDEO 32: COMP. 36: HDMI 1 37: HDMI 2		

■ End

This code indicates the end of communication. The binary code is fixed at "0A".



RS-232C Interface (Continued)

■ Remote control code

• Binary code is sent during communication.

Remote control button name	Binary code
A	37 33 30 31
▼	37 33 30 32
BACK	37 33 30 33
ON	37 33 30 35
STAND BY	37 33 30 36
INPUT	37 33 30 38
BRIGHT	37 33 30 39
CONT	37 33 30 41
SHARP	37 33 31 34
COLOR	37 33 31 35
TINT	37 33 31 36
N.R	37 33 31 38
HIDE	37 33 31 44
LENS.AP	37 33 32 30
MENU	37 33 32 45
ОК	37 33 32 46
LENS	37 33 33 30

Remote control button name	Binary code
>	37 33 33 34
◀	37 33 33 36
TEST	37 33 35 39
STAGE	37 33 36 37
CINEMA2	37 33 36 38
CINEMA1	37 33 36 39
NATURAL	37 33 36 41
DYNAMIC	37 33 36 42
USER1	37 33 36 43
USER2	37 33 36 44
USER3	37 33 36 45
INFO	37 33 37 34
GAMMA	37 33 37 35
C.TEMP	37 33 37 36
ASPECT	37 33 37 37







RS-232C Communication Examples

This section shows the communication examples of RS-232C.

■ Operating command

Туре	Command	Description	
Connection check	PC→This unit: 21 89 01 00 00 0A This unit→PC: 06 89 01 00 00 0A	Connection check	
Power (On)	PC→This unit: 21 89 01 50 57 31 0A This unit→PC: 06 89 01 50 57 0A	When power is turned on from standby mode	
Power (Off)	PC→This unit: 21 89 01 50 57 30 0A This unit→PC: 06 89 01 50 57 0A	When power is turned off (standby mode) from power-on mode	
Input (COMP.)	PC→This unit: 21 89 01 49 50 32 0A This unit→PC: 06 89 01 49 50 0A	When video input is set to component	
Remote Control (MENU)	PC→This unit: 21 89 01 52 43 37 33 32 45 0A This unit→PC: 06 89 01 52 43 0A	When the same operation as pressing the [MENU] button on the remote control is made	

■ Reference command

Туре	Command	Description		
Power (On)	PC→This unit: 3F 89 01 50 57 0A This unit→PC: 06 89 01 50 57 0A This unit→PC: 40 89 01 50 57 31 0A	When information of power-on mode is acquired		
Input (S-VIDEO)	PC→This unit: 3F 89 01 49 50 0A This unit→PC: 06 89 01 49 50 0A This unit→PC: 40 89 01 49 50 30 0A	When information of S-VIDEO input is acquired		

Copyright and Caution

About Trademarks and Copyright

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Caution

D-ILA Device Characteristics

Do not project still pictures or pictures that have still segments for a long period of time. The still parts of the picture may remain on the screen.

Take special notice of images on the screens of video games and computer programs. There is no problem when playing normal video images such as movies.

When Unit is Unused for a Long Time

Prolonged disuse of the unit may effect an error on the functions. Turn on the power occasionally and operate the unit

Usage Environment

- Avoid direct exposure of screen to direct sunlight and illumination. Block light using a curtain. Images can be well projected by darkening the brightness of the room.
- Do not use this unit in rooms with cigarette smoke or oily smoke. This may cause the unit to malfunction.

Parts Replacement

This unit contains parts (optical part, cooling fan, etc.) that require replacement to maintain its functioning. The estimated time for parts replacement varies greatly depending on the usage and environment. Please consult your authorized dealer for replacement.

Maintenance Procedures

Dirt on the cabinet

- Gently clean dirt on the cabinet with a soft cloth. In the case
 of heavy soiling, soak a cloth in water, wring dry and wipe,
 followed by wiping again with a dry cloth. Pay attention to
 the following as the cabinet may deteriorate in condition or
 paint may come off.
 - Do not wipe with thinner or benzene.
 - Do not spray with volatile chemicals like insecticide.
 - Do not allow prolonged contact with rubber or plastic products.

Dirt in the air inlets

 Use a vacuum cleaner to suck up the dirt. Otherwise, use a cloth to wipe off the dirt. If dirt is allowed to accumulate in the air inlets, the internal temperature cannot be adjusted and this may cause a malfunction.

Dirt on the lens

 Clean the dirt using commercial blowers or lens cleaning papers for cleaning glasses and cameras. Do not use fluid-type cleaning agents. This may lead to peeling of the surface coating film.





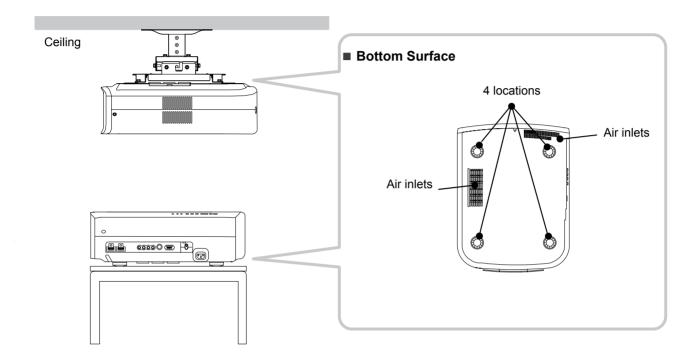


Getting Started

Mounting this Unit

Measures to prevent the unit from toppling or dropping should be taken for safety reasons and accident prevention during emergencies including earthquakes.

When mounting this unit on a pedestal or ceiling, remove the 4 feet on the bottom surface and use all the 4 screw holes (M5 screws) to mount.



Precautions for Mounting

- Special expertise and techniques are required for mounting this unit. Be sure to ask your dealer or a specialist to perform mounting.
- Depth of the screw holes (screw length) is 23 mm. Use screws shorter than 23 mm but longer than 13 mm.
 Using other screws will result in malfunctioning or cause the unit to drop.
- When mounting to a pedestal, ensure sufficient space (foot height of 10 mm or higher) around the unit so that the air inlets are not blocked.
- Do not tilt this unit more than ±5 degrees from side to side when using.
- Regardless whether the unit is still under guarantee, JVC is not liable for any product damage caused by mounting the unit with non-JVC ceiling fittings or when the environment is not suitable for ceiling-mount.
- When using the unit hanging from a ceiling, pay attention to the surrounding temperature. When a heater is in use, temperature around the ceiling is higher than expected.

Specifications

Proc	luct Name	D-ILA Projector			
Model Name		DLA-HD350			
Display Panel/Size		D-ILA device*1*2 / 0.7" (1920pixels x 1080pixels) x 3 (Total no. of pixels: Approx. 6.22million)			
Proje	ection Lens	2.0 x power zoom lens (1.4:1 to 2.8:1)(Zoom/Focus: Power)			
Ligh	t-source Lamp	200 W Ultra-high pressure mercury lamp [Part No. : BHL5010-S]			
Scre	en Size	Approx. 60" to 200" (Aspect ratio: 16:9)			
obje	ction Distance	Approx. 1.8m to 12m			
Colo	r System	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM (Auto/Manual switch)			
Anal	og Video Input Format	480i, 480p, 576i, 576p, 720p/50Hz, 720p/60Hz, 1080i/50Hz, 1080i/60Hz			
Digit	al Video Input Format	480i, 480p, 576i, 576p, 720p/50Hz, 720p/60Hz, 1080i/50Hz, 1080i/60Hz, 1080p/24Hz, 1080p/50Hz, 1080p/60Hz, PC compatible signals (灣 P57)			
Res	olution	1920 dots x 1080 dots			
Input Terminals					
	Video Input (VIDEO)	1-line, RCA pin jack x 1 1.0V(p-p), 75Ω			
	S-video Input (S-VIDEO)	1-line, mini DIN 4 pin x 1 Y: 1.0V(p-p), 75Ω C: 0.286V(p-p), 75Ω(NTSC); 0.3V(p-p), 75Ω(PAL)			
	Component Video Input (COMPONENT)	1-line, RCA pin jack x 3 Y: $1.0V(p-p)$, 75Ω C_B/P_B , C_R/P_R : $0.7V(p-p)$, 75Ω			
	HDMI Input (HDMI 1, HDMI 2)	2-line, HDMI 19 pin x 2(HDCP compliant)*3			
Pow	er Requirements	AC 110V-240V 50/60 Hz			
Pow	er Consumption	280W (Standby mode: 1W)			
Operation Environment		Temperature: 5°C to 35°C Humidity: 20% to 80% (No condensation) (Storage Temperature: -10°C to 60°C)			
Installation Height		Below 1524m			
Dimensions (Width x Height x Depth)		365mm X 167mm X 477.5mm			
Mass		11.0Kg			
Acce	essories	(See≅P13)			

^{*1} D-ILA is the abbreviation for Direct drive Image Light Amplifier.

- *3 HDCP is the abbreviation for High-bandwidth Digital Content Protection system.

 The image of HDMI input terminal may not be displayed due to HDCP specification change.
- Design and specifications are subject to change without prior notice.
- Please note that some of the pictures and illustrations may have been abridged, enlarged or contextualized in order to aid comprehension. Images may differ from the actual product.

^{*2} D-ILA devices are manufactured using extremely high-precision technology. Pixel effectiveness is 99.99%. Only 0.01% or less of the pixels are either missing or would remain permanently lit up.

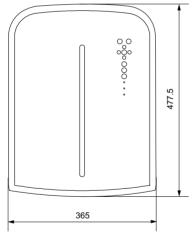
■ PC compatible signals

	fh	fh	fv	Dot CLK	Polarity		Total No.	Total No.	No. of effective	No. of effective	
No.	Designation Resolution [KHz] [Hz] [MHz]		Н	V	of dots [dot]	of lines [line]	dots [dot]	lines [line]			
1	VGA 60	640 X 480	31.500	60.000	25.200	-	-	800	525	640	480
2	VGA 59.94	640 X 480	31.469	59.940	25.175	-	-	800	525	640	480
3	SVGA 60	800 X 600	37.879	60.317	40.000	+	+	1,056	628	800	600
4	XGA 60	1024 X 768	48.363	60.004	65.000	-	-	1,344	806	1,024	768
5	WXGA 60	1280X 768	47.760	60.000	79.998	-	+	1,675	796	1,280	768
6	WXGA +60	1440 X 900	55.919	59.999	106.470	-	+	1,904	932	1,440	900
7	SXGA 60	1280 X 1024	63.981	60.020	108.000	+	+	1,688	1,066	1,280	1,024
8	WSXGA +60	1680 X 1050	65.222	60.002	147.140	-	+	2,256	1,087	1,680	1,050
9	WUXGA 60	1920 X 1200	74.038	59.95	154.000	+	-	2,080	1,235	1,920	1,200

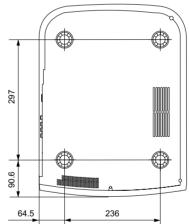
Images may not be displayed if the above timings are not met.

Dimensions

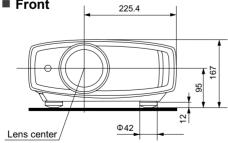
■ Top Surface

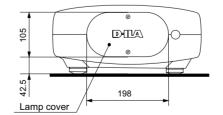


■ Bottom Surface



■ Back Surface **■** Front





(Unit: mm)