

DLA-HD750

DLA-HD750

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









Serial No.

JVC

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1108TTH-AO-AO

N° de série

Nº de serie

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.

NOTE:

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 receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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 reduct is used on a part across (windol provided by RETAC)
- 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



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



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.

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

Getting Started

Preparation

Basic

Operation

Others

ESPAÑOL / CASTELLANO

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

[Sólo Unión Europea]



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

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.

Productos

plomo.

ITALIANO

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



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

PORTUGUÊS

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



[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.

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 aenbrua.

Batteri

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



Tietoja vanhojen laitteiden ja akkujen hävittämisestä

Akku Tuotteet

[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.

Settings

Getting Started

Preparation

Basic

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.

NORSK

Opplysninger til brukere om kassering av gammelt utstyr og batterier



[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.

Batteri

Produkter

8

РУССКИЙ

Сведения для пользователей по утилизации старого оборудования и батарей



[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 Pb под символом батарей указывает на то, что данная батарея содержит свинец.

ČESKY

Informace pro uživatele k likvidaci starého zařízení a baterií



[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

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

Produkty

POLSKI

Informacje dla użytkowników dotyczące pozbywania się zużytego sprzętu i baterii



[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.

Bateria

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

Produkty

MAGYAR

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 érdekében.

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

THX Certification



THX Certification

THX Ltd. was founded by filmmaker George Lucas to improve the cinema and home entertainment experience through strict engineering standards and breakthrough technologies. THX has leveraged more than 25 years of filmmaking, cinema design and post-production expertise to partner with JVC to engineer a best-in-class home theater projector.

With a strict focus on image quality and signal processing performance, THX certification promises that this JVC projector is capable of presenting a wide range of video content at maximum resolutions with the correct color and luminance levels. In addition, THX has created a battery of signal processing tests that challenge the projector's scaling, motion conversion and de-interlacing capabilities. This type of in-depth analysis predicts how the projector will present a variety of high definition and standard definition content.

The JVC projector also features THX Movie Mode, a pre-calibrated video setting for watching movies on DVD, Blu-ray HD or broadcast television. This playback feature is designed to recreate the cinema experience at home by setting the display's gamma, luminance, color temperature and other settings to mirror those used by filmmakers in post-production. THX Movie Mode also ensures projector brightness is optimal for large screen viewing.

THX	0
RECOMMENDED USE	
All Home Theaters or Living Rooms	
THX CERTIFICATION FEATURE	S
 THX Movie Mode: Correct Gamma and Color Temper No Overscan or Scaling Correct High Def Color Gamut 	ature
THX PERFORMANCE	
Best in Class Parameters include: ANSI and Sequential Contrast Luminance and Color Uniformity Color Tracking with Gray Scale Optimum Brightness Deinterlacing Performance Jaggies and Contouring	
Visit www.thx.com for further technical detail	s.

Others

Main Features 🗢

Supports Multiple Digital Devices

 Comes with 2 independent HDMI terminals that allows digital transmission of high definition signals. () P18) 6

Beautiful Images on Big Screen

• Enjoy smooth and high resolution video images with no visible grid, brought about by full high definition resolution of 1920 x 1080 pixels. (
P26)

Perfect for Any Location

 Comes with an 80% vertical and 34% horizontal lens shift function. (APP23)

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ENGLISH

Getting Started

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Others



Buttons to be used are colored in a darker shade.

Check the Accessories



(for operation confirmation)

Power Cord

Indicates relevant pages for reference.

For European continent countries (2m)
 Instruction manual, warranty card and other printed material are also included.

■P13

Optional Accessories

Please check with your authorized dealer for details.

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

Controls and features





Bottom Surface

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



Others

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 \bigcirc 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.

Others

Troubleshooting

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.



Others

Getting Started

Preparation

Basic Operation

Settings

Troubleshooting

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". (@P35 - 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.



Getting Started

Preparation

Basic Operation

Settings

Troubleshooting

Connecting via SCART-RCA Cable

This unit



• Set "COMP." in the setting menu to "SCART". (
P35 - 12)

Connecting via RGB Video Cable



• For information on compatible input signals, see "Specifications". (@P58)

Others

Connecting(Continued)

Connecting via PC Cable

This unit



Connecting via Trigger Cable

This unit



- Do not supply the power to the other devices.
- Do not connect audio terminals of the other devices such as headphones etc. Otherwise, this may cause a malfunction of the other devices or injury.
- Using beyond the rated value will cause malfunction.
- Exercise adequate caution to prevent short circuit as the trigger terminal outputs a voltage of 12V.

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". (AP38 - 25)

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)







Getting Started

C

thers

Installing the Projector and Screen(Continued)



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



4 (((or))) (the up, down, left and right buttons). Adjust the image position to the center of the screen by pressing

• It may be necessary to set "Pixel Adjust" in the setting menu after adjusting the image position. (RP38 - 23)

Preparation

Troubleshooting

Others

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)	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	140" (Approx. 3.56m)	Approx. 4.23m to Approx. 8.60m
70" (Approx. 1.78m)	Approx. 2.09m to Approx. 4.28m	150" (Approx. 3.81m)	Approx. 4.53m to Approx. 9.22m
80" (Approx. 2.03m)	Approx. 2.40m to Approx. 4.89m	160" (Approx. 4.06m)	Approx. 4.84m to Approx. 9.84m
90" (Approx. 2.29m)	Approx. 2.70m to Approx. 5.51m	170" (Approx. 4.32m)	Approx. 5.14m to Approx. 10.45m
100" (Approx. 2.54m)	Approx. 3.01m to Approx. 6.13m	180" (Approx. 4.57m)	Approx. 5.45m to Approx. 11.07m
110" (Approx. 2.79m)	Approx. 3.31m to Approx. 6.75m	190" (Approx. 4.83m)	Approx. 5.75m to Approx. 11.68m
120" (Approx. 3.05m)	Approx. 3.62m to Approx. 7.36m	200" (Approx. 5.08m)	Approx. 6.06m to Approx. 12.30m
130" (Approx. 3.30m)	Approx. 3.92m to Approx. 7.98m		

• 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.





Adjust the image size (zoom)

2

LENS

LENS

time.

3

othe

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).

ASPECT

►4:3—►16:9 —► zoom—

- The screen size can also be set from "Aspect(Video)" of the setting menu.
 (P36 16)
- When PC signals are input, the "Aspect(Computer)" setting will be available instead. (
 P37 - 17)
- Input Image and Projected Image by Different Screen Size Settings

Input Image	Screen Size			
mput 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.

Project the image



Image for which quality at the outer area has deteriorated.





Others

Setting Menu

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



Setting Menu

Pi

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, User 3 and THX.
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. (

Others

Setting Menu (Continued)

ture Adjust > Coloi	r Temp.				
Color Temp.					
the color temperature	of the projected image.				
5800K	Select this to g image.	o give a reddish tinge to the o have a balanced image.			
6500K	Select this to h				
7500K	Select this to g image.	give a bluish tinge to the		Only offset can be set.	
9300K	Select this to g than 7500K.	ive a greater bluish tinge			
High Bright	Select this to g	et the brig	ghtest image.		
		Red	(Less red) -255 to	o 0 (More red)	
	Gain (Bright part)	Green	(Less green) -25	5 to 0 (More green)	
		Blue	(Less blue) -255	to 0 (More blue)	
Custom 1		Red	(Less red) -50 to	red) –50 to 50 (More red)	
	(Dark part)	Green	(Less green) –50 to 50 (More green)		
		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)		
	(Dark part)	Green	(Less green) –50 to 50 (More green)		
		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 3	(=	Blue	(Less blue) –255 to 0 (More blue)		
		Red	(Less red) –50 to	50 (More red)	
	Offset (Dark part)	Green	(Less green) -50	to 50 (More green)	
	(20 port)	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)

• Cannot set when the "Picture Mode" in "THX".

-	٠	
2	5	
ſ	D	
	2	

07 Gamma

ts the gradation characteris	stics of the projected im	nage.		
Normal	For normal circ setting.	cumstances, select this	Gamma adjustment cannot be performed	
Α	Set gamma to	"A".		
В	Set gamma to	"В".	and only copy is valid.	
С	Set gamma to	"C".	1	
Custom 1 Custom 2 Custom 3 (Gamma Setup)	Three different	Three different kinds of gamma can be set according to your preferences.		
	Correction Value	The coefficient (1.8 to 2.6) of the gamma curve can be selected.		
	Gamma Adjustment*	The gamma curve for the colors (Red, Green, Blue) can be adjusted separately. Adjusting "White" will adjust for all "Red, Green, Blue" values. T gamma curve displays the value for "Green".		
	Сору	Copy the adjusted gamma data.		
	Paste	Paste the copied gamma data.		
	Reset	Return the gamma coefficients to the values 2.2 set by "Correctio 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)
- Cannot set when the "Picture Mode" in "THX".
- * "Gamma Adjustment"
 - (1) 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 $\triangleleft / \triangleright$ buttons.



Adjust the gradation (brightness) with the \blacktriangle / \blacktriangledown buttons.

• You can switch between "Before" and "After" using the [TEST] button of the remote control.

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 image, detailed composition of the image and image color. (Cannot set when the "Picture Mode" in "THX".)

50 (Strong) Err	and a since the details of image	
	phasizes the details of image.	
	justs the intensity of removing age noise.	
	justs the intensity of removing squito noise.	
Re	duces block noise.	
Inp	out signal remains unchanged.	
Input signal rem	Input signal remains unchanged.	
Re	Reduces color smear.	

obreviations

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

DI	R. DIUCK NUISE REUUCIIUIT C		nprovement		
	Color Management	Off	The image color cannot be adjusted.		
		Custom 1 Custom 2 Custom 3	Pause	Off	Video mode
				On	Still mode
			Color Management	t Values of each color can be adjusted ("Red	
				Yellow, Green, Cyan, Blue and Magenta").	
			All Reset	Return to the factory settings.	
09 L	ens Aperture				
	(Dark) -15 to 0 (Bright)				
10	Reset				

Reset the setting.

* About "Color Management Adjustment"

(1) Set the picture mode of the color management.

② Select the color to be adjusted by color management.



③ Select color adjustment.



ENGLISH

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(4) Select the "Hue", "Saturation" or "Brightness" using the \blacktriangle / \blacktriangledown button.

(5) Use the \triangleleft / \blacktriangleright button to adjust.



• You can switch between "Before" and "After" using the [TEST] button of the remote control.

6 To end



Input Signal > HDMI

11 HDMI

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.	
Color Space	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.	
	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

Inp	ut Signal > COMP.		
12	COMP.		
Con	figures the input signal for the co	mponent video input termina	als.
		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.

Setting Menu (Continued)

nput Signal > Video/S-	Video	
13 Video/S-Video		
Configures the Video/S-Vide	o input signals.	
NTCC Coture Loval	0IRE	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.
	Auto	Configures the color system automatically.
	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	NTSC4.43 PAL	Select this when the color system is NTSC4.43. Select this when the color system is PAL.
Color System		
Color System	PAL	Select this when the color system is PAL.

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

Inp	ut Signal >PC	
14	PC	
Cont	figures PC input.	
	Auto Alignment Automatically adjusts "Tracking", "Phase" and "Picture Position".	
	Tracking	Adjust the horizontal size and display area of the image. (This may vary depending on the signal, but does not usually require adjustment.)
	Phase	Adjust flickering and blurred images. (This may vary depending on the signal, but does not usually require adjustment.)
	Picture Position	Adjust the display position of the image.

• This can be set only when selecting PC input terminal.

Input Signal > Picture Position
15 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.

Input Signal > Aspect (Video) Input Signal > Aspect (Video) Configures the screen size of the projected image. Configures the screen size of the projected image as 4:3. If is 9 Sets the screen size of the projected image as 4:3. If is 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.
	9	D
1	ζ	5
	C	2
	Ľ	
	2	2
	E	1.
	C)
	c	3

2

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2	4
¢	ñ

Inpu	nput Signal > Aspect (Computer)	
17 A	17 Aspect (Computer)	
Conf	igures the screen size of the pro	vjected image.
		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. (

• 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)	
18 \	18 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.





Inpu	Input Signal > Over Scan		
19 (19 Over Scan		
Seleo	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		
20 N	20 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.

Inpu	Input Signal > Film Mode		
21 F	21 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 Co	ntrol
22 Lens Control	
Controls the individual moto	prized 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 "Zoom" and "Shift": 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	nstallation > Pixel Adjust		
23 F	Pixel Adjust		
Make	es fine adjustments of 1 pixel un	it 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.

Installation > Installation Style

Installation Style Flips the image to the left or right, up or down according to the projection state of the projector. 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

25 Keystone

Compensates for trapezoidal distortion caused by installation.

• Refer to "Installing the Projector and Screen". (
P23)

(

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Dis	Display Setup > Back Color	
26	26 Back Color	
Conf	Configures the screen color displayed when there is no input signal.	
	Blue	Sets screen color to "Blue".
	Black	Sets screen color to "Black".

Display Setup > Menu Position

27 Menu Position

Sets the display position of the menu. The possible positions for displaying the menu are at the four corners or at center of the screen.



Disp	Display Setup > Menu Display	
28 N	28 Menu Display	
Sets	Sets the duration for displaying the menu.	
	15 sec	Display for 15 seconds.
	On	Always display.

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

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

Setting Menu (Continued)

Display Setup > Languag	Display Setup > Language		
32 Language	2 Language		
Sets the language of the menu	ı display.		
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		
33	33 Lamp Power		
Conf	Configures the output of the light-source lamp.		
	Normal	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.

Fun	Function > Trigger		
34 T	34 Trigger		
Conf	Configures the output of Trigger terminal.		
	Off	Do not activate.	
	On(Power)	Move the screen UP/DOWN in conjunction with the power.	
	On(V-Stretch)	Operate the anamorphic lens in conjunction with the "V-Stretch".	

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

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

Function > Off Timer	unction > Off Timer		
36 Off Timer			
Automatically powers off v	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		
37 H	37 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.	
	Off	Disable.	

ormation	
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", "Dynamic" and "THX" settings, there are 3 more types of user-defined settings for Picture Mode.



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Iroubleshooting



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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.	₽26
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.	₽ ₽49
Is the lamp in Cool Down mode?	After the Cool Down mode is complete, turn on the power again.	₽27

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.	₽48 to 50

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.	₽14 to 15
Is the filter dirty?	Clean the filter.	P51

Video image does not appear				
Is the correct external input selected?	Select the correct external input.	₽26		
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.	∰P26		
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.	🛱 P35 - 11 12		
Is the video image temporarily hidden?	Press the [HIDE] button to display the video image again.	₽27		

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

• 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.	P31 - 04 05			

Video image is fuzzy		
Is the focus correctly adjusted?	Adjust the focus.	₽26
Is the unit placed too near or too far away from the screen?	Set the unit at a correct distance from the screen.	P23 to 25

Video images are missing		
Has setting been performed for screen mask?	Set "Mask" in the setting menu to "Off".	₽29, 37 - <mark>20</mark>
Is the display out of position?	Alter the "Picture Position" value in the setting menu to ensure that images are not missing.	₽36 - <mark>15</mark>

Remote control does not work					
Are batteries installed correctly?	Match the polarities (\oplus or \odot) correctly when inserting the batteries.	€€P17			
Are batteries exhausted?	Replace with new batteries.	₩P17			
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".	⊜⊇P41 - <mark>36</mark>

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	Get ready a new lamp unit and replace as soon as possible. Reset the lamp time after replacing the lamp. (P48 to 50)

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". (

	Indicator			Blinking	Blinking	king Interval		
No.	WARNING	LAMP	STANDBY/ON	Time	Frequency	between Blinks	Content	
1	-	-	Light on (Red)	-	-	-	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 (P48 to 50) (When accumulated lamp tim exceeded 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 proj	ection
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	pply
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 sheet, has not assumed during exercise	
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 newer again
9	 Check that the lamp unit and lamp cover are correctly installed. Check that nothing is blocking the auto lens cover. 	Turn on the power again.
17		
10		
11		
12	Check that nothing is blocking the air inlate	Leave the unit until it cools down.
13	 Check that nothing is blocking the air inlets. Check that the external temperature is normal. 	
14		After 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.

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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. (PP47)



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





Loosen the screws on the lamp unit





3 Pull out the lamp unit

• Grasp the handle and pull out the lamp unit.





Tighten the screws of the new lamp unit

• Tighten the screws with a \oplus screwdriver.



- Fasten the screws with a \oplus screwdriver.

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.



Press 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.



Othe

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

This unit	Pin No.	Signal	Function	Signal Direction
$\begin{pmatrix} 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	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

D0 D1 D2 D3 D4 D5 D6 D7 Start Bit Stop Bit

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. 33: VGA 36: HDMI 1 37: HDMI 2
5243	Remote Control	Sends the same code as the supplied remote control. • "Remote control code" (

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
	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.

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.

O-O-O-O-O Others

Specifications

Product Name		D-ILA Projector				
Model Name		DLA-HD750				
Display Panel/Size		D-ILA device ^{*1*2} / 0.7" (1920pixels x 1080pixels) x 3 (Total no. of pixels: Approx. 6.22million)				
Projection Le	ens	2.0 x power zoom lens (1.4:1 to 2.8:1)(Zoom/Focus: Power)				
Light-source	Lamp	200 W Ultra-high pressure mercury lamp [Part No. : BHL5010-S]				
Screen Size		Approx. 60" to 200" (Aspect ratio: 16:9)				
objection Dis	stance	Approx. 1.8m to 12m				
Color System	n	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM (Auto/Manual switch)				
Analog Video	o Input Format	480i, 480p, 576i, 576p, 720p/50Hz, 720p/60Hz, 1080i/50Hz, 1080i/60Hz				
Digital Video	Input Format	480i, 480p, 576i, 576p, 720p/50Hz, 720p/60Hz, 1080i/50Hz, 1080i/60Hz, 1080p/24Hz, 1080p/50Hz, 1080p/60Hz, PC compatible signals (P59)				
Resolution		1920 dots x 1080 dots				
Color Manag	gement	Featured				
Terminals						
Video I (VIDE		1-line, RCA pin jack x 1 1.0V(p-p), 75Ω				
S-video (S-VII	•	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)				
	nent Video Input IPONENT)	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 I (HDM	nput II 1, HDMI 2)	2-line, HDMI 19 pin x 2(HDCP compliant) ^{3}				
PC Inp	ut	1-line, D-Sub 15 pin VGA				
Trigger	[·] Output	12V 100mA				
Power Requ	irements	AC 110V-240V 50/60 Hz				
Power Cons	umption	280W (Standby mode: 1W)				
Operation Environment		Temperature: 5℃ to 35℃ Humidity: 20% to 80% (No condensation) (Storage Temperature: -10℃ to 60℃)				
Installation H	leight	Below 1524m				
Dimensions (Width x Height	ght x Depth)	365mm X 167mm X 477.5mm				
Mass		11.0Kg				
Accessories		(See P13)				

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

- *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.
- *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.

PC compatible signals

• HDMI

	fh	fv	Dot CLK	Polarity		Total No. of dots [dot]	Total No. of lines [line]	No. of effective	No. of effective		
No.	Io. Designation Resolution [kHz] [Hz]	[MHz]	Н	V	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.

• PC (D-sub 3-lines 15 pins)

		fi	fb	fh fv	Dot CLK	Pola	arity	Total No.	Total No.	No. of effective	No. of effective
No.		[MHz]	Н	V	of dots [dot]	of lines [line]	dots [dot]	lines [line]			
1	VGA 60	640 X 480	31.500	60.000	25.175	-	-	800	525	640	480
2	VGA 72	640 X 480	37.900	72.000	31.500	-	-	832	520	640	480
3	VGA 75	640 X 480	37.500	75.000	31.500	-	-	840	500	640	480
4	VGA 85	640 X480	43.300	85.000	36.000	-	-	832	509	640	480
5	SVGA 56	800X 600	35.200	56.000	36.000	+	+	1024	625	800	600
6	SVGA 60	800 X 600	37.900	60.000	40.000	+	+	1056	628	800	600
7	SVGA 72	800 X 600	48.100	72.000	50.000	+	+	1040	666	800	600
8	SVGA 75	800 X 600	46.900	75.000	49.500	+	+	1056	625	800	600
9	SVGA 85	800 X 600	53.700	85.000	56.250	+	+	1048	631	800	600
10	XGA 60	1024 X 768	48.400	60.000	65.000	-	-	1344	806	1024	768
11	XGA 70	1024 X 768	56.500	70.000	75.000	-	-	1328	806	1024	768
12	XGA 75	1024 X 768	60.023	75.029	78.750	+	+	1312	800	1024	768
13	XGA 85	1024 X 768	68.700	85.000	94.500	+	+	1376	808	1024	768
14	WXGA 60	1280 X 768	47.760	60.000	79.998	-	+	1675	796	1280	768
15	WXGA+ 60	1440 X 900	55.919	59.999	106.470	-	-	1904	932	1440	900
16	SXGA 60	1280 X 1024	63.981	60.020	108.000	+	+	1688	1066	1280	1024
17	SXGA+ 60	1400 X 1050	64.740	59.950	101.000	+	+	1560	1080	1400	1050
18	WSXGA+ 60	1680 X 1050	65.222	60.002	147.140	-	-	2256	1087	1680	1050
19	1920x1080 60	1920 X 1080	67.500	60.00	148.500	+	+	2200	1125	1920	1080
20	MAC13"	640 X 480	35.000	66.667	30.240	-	-	864	525	640	480
21	MAC16"	832 X 624	49.107	75.087	55.000	-	-	1120	654	832	624
22	MAC19"	1024 X 768	60.241	74.927	80.000	-	-	1328	804	1024	768

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

Specifications(Continued)

Dimensions

) () () ()

-6 Others





(Unit: mm)





