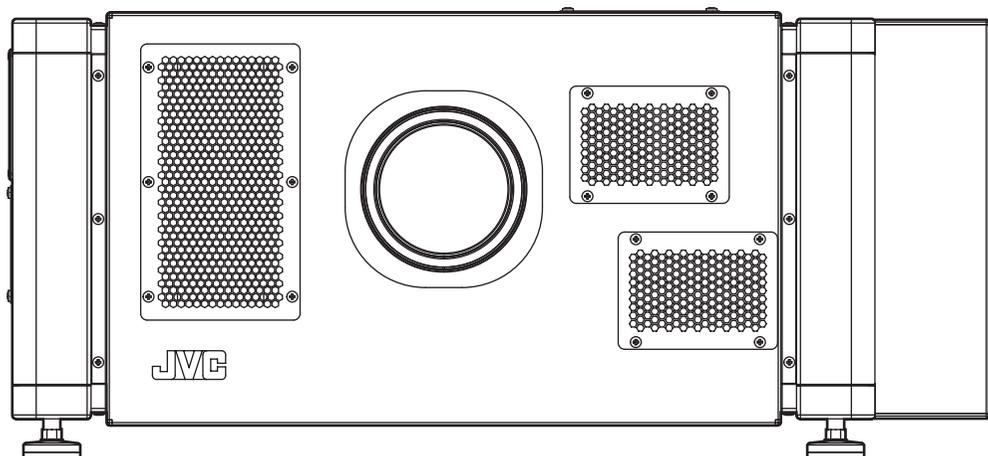


# JVC

## INSTRUCTIONS

D-ILA  
PROJECTOR

# DLA-VS8000



**D-ILA<sup>®</sup>** *BLU-Escent*

Thank you for purchasing this JVC product.  
Please study this instruction manual carefully before starting to operate the unit, in order to use the unit correctly.  
We take no responsibility for any problems resulting from misuse of this unit by operating this equipment other than instructed in this manual.

**For Customer use :**

Enter below the model No. and the serial No. which are located on the back of the cabinet. Retain this information for future reference.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

Getting Started

Connection and Installation

Operation and Settings

Others

# Safety Precautions

## IMPORTANT INFORMATION

### 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.

### NOISE EMISSION DECLARATION

The sound pressure level at the operator position is equal or less than 60dB(A) according to ISO7779.

### WARNING

REMOVE THE LENS COVER BEFORE TURNING ON THE PROJECTOR

### WARNING

This equipment is compliant with Class A of CISPR 32.

In residential environment this equipment may cause radio interference.

### Supplier's Declaration of Conformity

Model Number: DLA-VS8000G

Trade Name: JVC

Responsible party: JVCKENWOOD USA Corporation

Address: 1440 Corporate Drive, Irving, TX 75038

Telephone Number: 678-449-8879

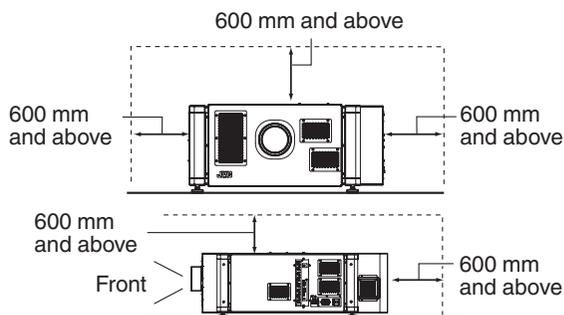
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications 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 a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## 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.
  - 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.
- PORTABLE CART WARNING  
(symbol provided by RETAC)
- 
- S3126A
- 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. Overheating can cause damage.



- 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.

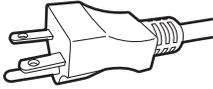
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
  - Upon completion of any service or repairs 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.
  - Use only the accessory cord designed for this product to prevent shock.
  - Once every three years, please perform an internal test. This unit is provided with replacement parts needed to maintain its function (such as cooling fans). Estimated replacement time of parts can vary greatly depending on frequency of use and the respective environment. For replacement, please consult your dealer, or the nearest authorized JVC service center.
  - Video images can burn into the electronic component parts. Please do not display screens with still images of high brightness or high contrast, such as found in video games and computer programs. Over a long period of time it might stick to the picture element. There is no problem with the playback of moving images, e.g. normal video footage.
  - Not using the unit for a long time can lead to malfunction. Please power it on and let it run occasionally. Please avoid using the unit in a room where cigarettes are smoked. It is impossible to clean optical component parts if they are contaminated by nicotine or tar. This might lead to performance degradation.
- \* DO NOT allow any unqualified person to install the unit.**

Be sure to ask your dealer to install the unit 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.
- Do not use optical instruments (such as magnifying glass or reflector) viewing the laser output. It may pose an eye hazard.
  - When turning on the projector, ensure that no one is looking into the projection lens.
  - Do not look into the lens and openings when the light is on. Doing so would have serious effects on the human body.
  - Do not detach or attach the projection lens with the power connected.
  - Attempting to disassemble, repair or modify the projector yourself may lead to serious safety issues.
  - Using a faulty product not only results in electrical shock or fire hazard, it can cause visual impairment.
  - When abnormality occur, stop using the projector immediately and send it to your authorized dealer for repair.
  - The lens for this product is optional. Do not attach the power cord when the lens is not attached. Turning on the power when no lens is attached may result in fire, electric shock, or other hazards.
  - This equipment is not suitable for use in locations where children are likely to be present.

## POWER CONNECTION

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

### Power cord



The power supply voltage rating of this product is AC200V – 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.

### 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.

### WARNING:

**THIS APPARATUS MUST BE EARTHED.**

### Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety. European representative of JVCKENWOOD Corporation is: JVCKENWOOD Deutschland GmbH Konrad-Adenauer-Allee 1-11, 61118 Bad Vilbel, GERMANY

### 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.

### 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.

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



Produits



Pile

#### [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 collecte des déchets ou les centres de recyclage appropriés.

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

### 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.

### Benutzerinformationen zur Entsorgung alter Geräte und Batterien



Produkte



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.

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

### Informazioni per gli utenti sullo smaltimento delle apparecchiature e batterie obsolete



Prodotti



Batteria

#### [Solo per l'Unione Europea]

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.

### Informatie voor gebruikers over het verwijderen van oude apparatuur en batterijen



Producten

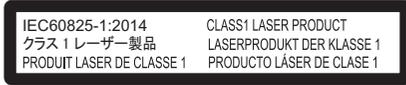


Batterij

#### [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 weggoien, kunt u inzamelsystemen of faciliteiten voor een geschikte recycling gebruiken.

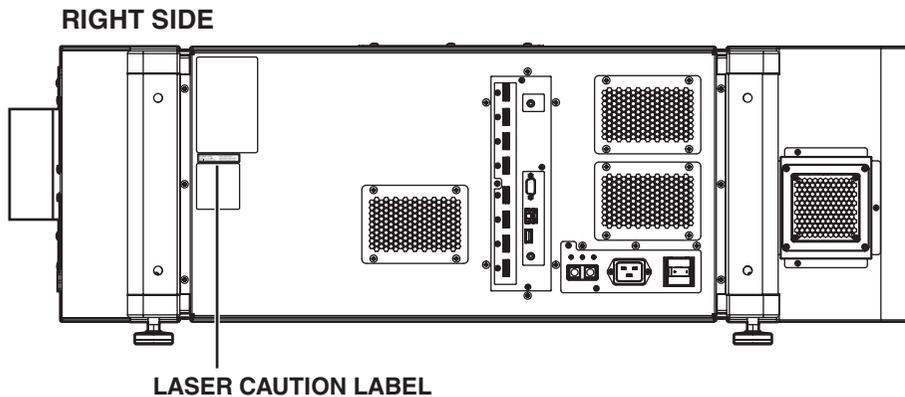
**Opmerking:** Het teken Pb onder het batterijsymbool geeft aan dat deze batterij lood bevat.

**IEC60825-1****CLASS 1 LASER PRODUCT****LASER CAUTION LABEL****WARNING**

Do not look into the lens while in use.

**CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

**Location information of the labels****CAUTION**

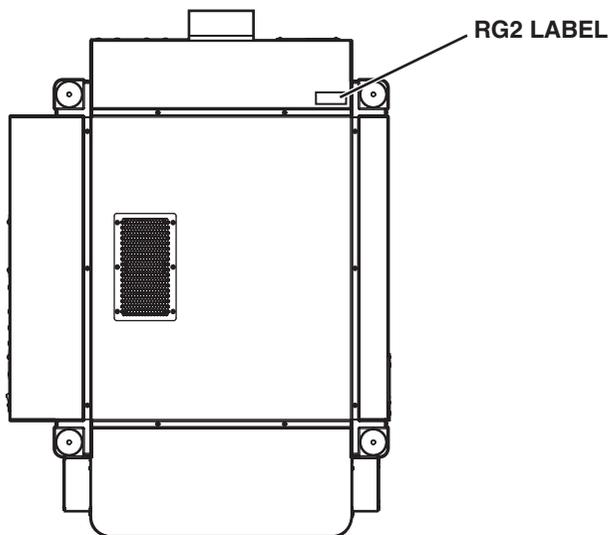
- Do not stare into the projector beam at any distance from the projector.
- Be careful to beam from lens when using the remote control for starting the projector while in front of the projection lens.
- Do not use of optical aids such as binoculars or telescopes inside the beam.

**For EU**

Standard is EN 60825-1:2014+A11:2021, Published : 2021

**IEC62471-5****RG2 label for IEC62471-5:2015**

警告 : 光線を見ないでください	RG2	B4B-0070-00
Caution	: Do not stare into the beam,	RG2
Attention	: Ne pas regarder dans le faisceau,	RG2
Vorsicht	: Schauen Sie nicht direkt in den Lichtstrahl,	RG2
PRECAUCIÓN	: No mire directamente al haz de luz,	RG2
ATTENZIONE	: Non fissare il fascio luminoso,	RG2
Let op	: Kijk niet in de lichtstraal,	RG2
ОСТОРОЖНО.	: Не допускайте попадание луча в глаза,	RG2

**Location information of the labels****TOP SIDE**

As with any bright light source, do not stare into the beam, RG2 IEC 62471-5:2015

Light source specifications

30 W Laser diodes ×12

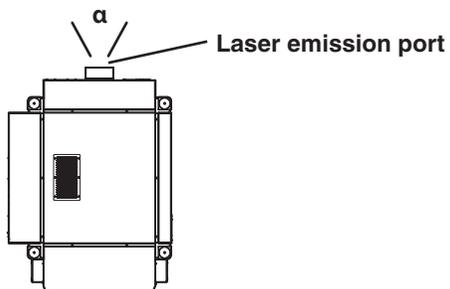
Wavelength 440 - 470 nm

Maximum output is 68.5 W

**Beam divergence angle from lens of this unit**

Wide :  $\alpha=64^\circ$

Tele :  $\alpha=55^\circ$



# Contents

## Getting Started

Safety Precautions .....	2
Names and Functions of Parts .....	10
Front/Right, Left and Rear Side .....	10
Right Side .....	11

## Connection and Installation

Installation .....	12
Optional Projection Lens .....	12
Shift Lock Screws on the OP Unit .....	12
Minimum Space Required .....	13
Projector Installation Angle .....	14
Installing the Projector and Screen .....	15
Screen Size and Projection Distance .....	17
Connecting Video Signals .....	18
Possible Input Signals and Projected Image .....	18
Connecting the Projector .....	24
Connecting to the DisplayPort Terminals .....	24
Connecting to the LAN Terminal .....	24
Connecting to the RS-232C Terminal .....	25
Connecting to the REMOTE Terminal .....	25
Turning On the Main Power .....	26

## Operation and Settings

Projecting Image .....	27
Firmware Update .....	28
Adjustments and Settings in the Menu .....	29
List of Menu Items .....	29
 Picture Adjust .....	31
 Input Signal .....	35
 Installation .....	37
 Display Setup .....	46
 Function .....	47
 Information .....	50

## Others

Maintenance .....	51
Cleaning and Replacing the Filter .....	51
Routine Servicing .....	53
Troubleshooting .....	54
When the Following Messages Appear... ..	56
External Control .....	57
RS-232C Specifications .....	57
TCP/IP Connection .....	57
Command Format .....	58
Remote Control Code .....	59
Communications Example .....	60
Specifications .....	61
Dimensional Outline Drawing .....	65
Index .....	66

# Accessories

Power cord ..... 1 piece

\* The attached power cord is for this product only and cannot be used on other equipment.

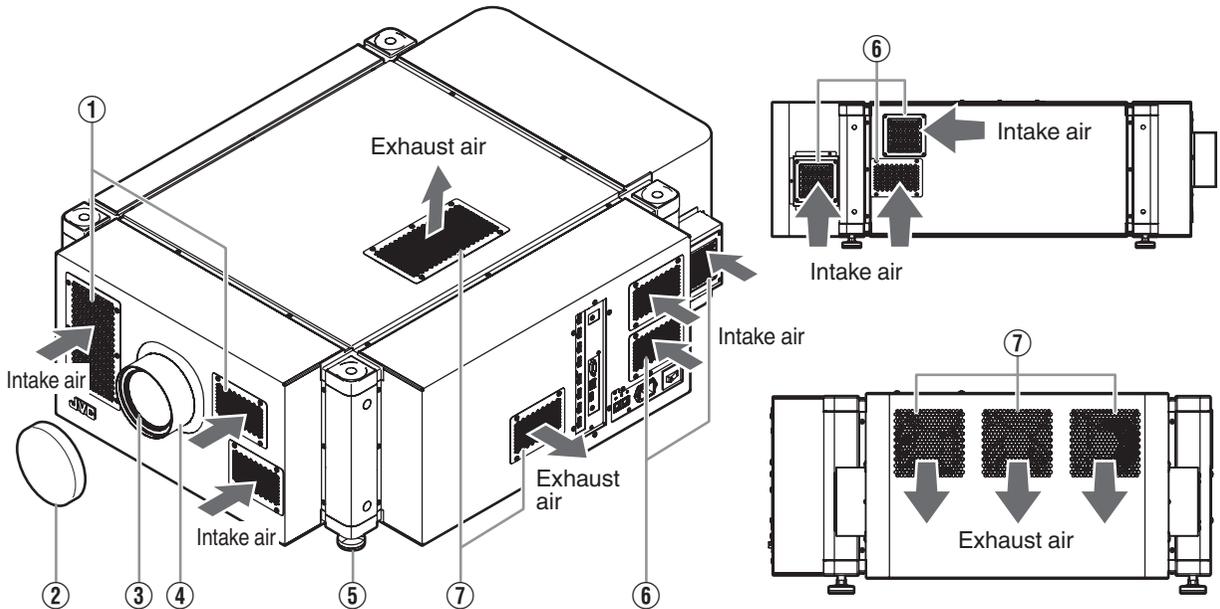
- Safety precautions and other printed material are also included.

### Content of this manual

- Contents of this manual are the copyright of JVC. All rights reserved. Unauthorized reproduction and duplication of this manual, in whole or in part, without the permission of JVC is strictly prohibited.
- The names of other companies' products that appear in this manual are the trademark or registered trademark of the respective companies. Symbols such as <sup>TM</sup>, ®, and © are omitted in this manual.
- Designs, specifications, and other details described in this manual may be modified for improvement without prior notice.

# Names and Functions of Parts

## Front/Right, Left and Rear Side



### ① Air Inlet/Filter

The air inlets absorb air to cool the interior of the projector. A filter is mounted inside the projector to remove dirt in the air that enters through the inlets. Clean the filter regularly. (P. 51)

- Do not block the air inlets with papers, cloth, or soft cushions. Doing so may cause heat to trap inside the projector and result in fire or malfunction.

### ② Lens Cap (included with the optional lens)

Fit the cap on the lens when this projector is not in use to prevent the lens from becoming dirty.

- Do not project images with the lens cap attached. The lens cap may be deformed due to the heat, or the projector may malfunction.

### ③ Projection Lens (optional)

This is the optional zoom lens. (P. 15, 62)  
Remove the lens cap before projection.

### ④ Lens Mounting Bracket

Mount the optional projection lens.

### ⑤ Adjustable Feet (x4)

Adjust the feet until the projector is level. The adjustable range is 20 mm for each. (P. 14)

### ⑥ Air Inlet/Filter (Right Side: x3, Left Side: x3)

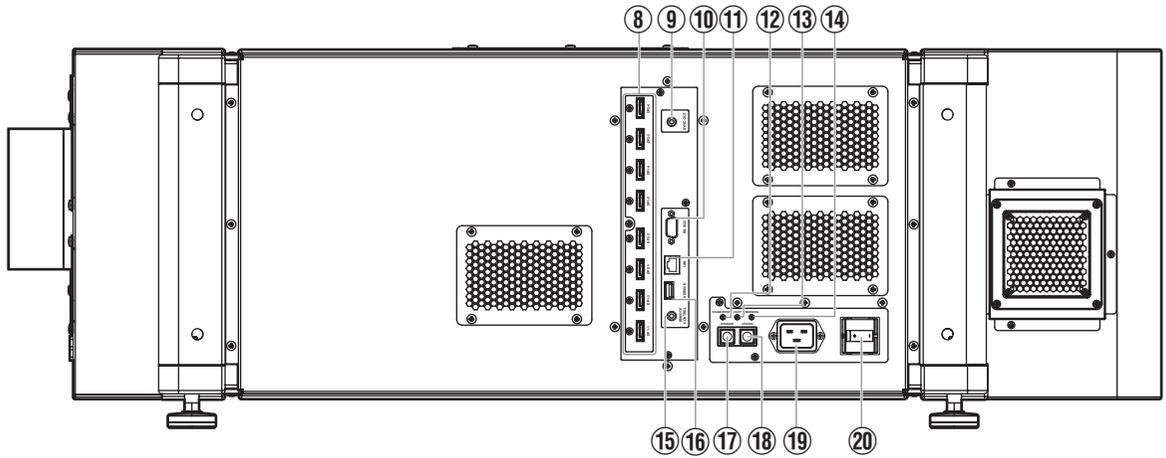
The air inlets absorb air to cool the interior of the projector. A filter is mounted inside the projector to remove dirt in the air that enters through the inlets. Clean the filter regularly. (P. 51)

### ⑦ Vent Hole (Right Side: x1, Top Side: x1, Rear Side: x3)

Warm air exits from the hole after cooling the projector.

- Do not block the vent holes with papers, cloth, or soft cushions. Doing so may cause heat to trap inside the projector and result in fire or malfunction.

## Right Side



### ⑧ [DisplayPort] input terminal (DP1-1 to 1-4, DP2-1 to 2-4) (20-pin male)

For connecting to devices that support DisplayPort output. (P. 24)

### ⑨ [SYNC OUT] terminal

For synchronizing with other equipment.

### ⑩ [RS-232C] terminal (D-sub 9-pin male)

The projector can be controlled by connecting a PC to this terminal.

### ⑪ [LAN] terminal (RJ-45)

The projector can be controlled by connecting it to a PC through the computer network for control commands to be sent to the projector.

### ⑫ [STANDBY/ON] Indicator

Lit (Red) : When in the standby mode.

Lit (Green) : When power is supplied.

Blinking (Red): When cooling down (cool down mode).

Blinking (Green): When the projected image is temporarily hidden.

- For details, refer to “When the Following Messages Appear...”P. 56.

### ⑬ [LIGHT] Indicator

This indicator lights up in red when the lifetime of the LD block exceeds 20,000 hours.

- For details, refer to “When the Following Messages Appear...”P. 56.

### ⑭ [WARNING] Indicator

This indicator lights up in red when abnormality occurs on this projector.

- For details, refer to “When the Following Messages Appear...”P. 56.

### ⑮ [REMOTE CONTROL] terminal (stereo mini jack)

This terminal connects a remote control directly to the projector with a cable.

### ⑯ [SERVICE] terminal

For updating the software using a commercially available USB flash drive.

### ⑰ [OPERATE] Button

Pressing this button for one second or longer when in the standby mode (main power supply is ON) turns on the power of the projector unit. Pressing it for one second or longer when the power is ON switches the projector to the standby mode.

### ⑱ [UPDATE] Button

With a USB flash drive connected to the [SERVICE] terminal, press this button for at least 1 second while in standby mode (main power is turned on) or while the power is on to start software update.

- For detailed instructions and the latest information about the software, refer to <https://www3.jvckenwood.com/english/download/>.

### ⑲ AC Power Input Terminal

Connect the supplied cord to this terminal.

### ⑳ Main Power Supply Switch

Use this to turn ON/OFF the main power supply of the projector unit.

### MEMO

- Power ON condition is indicated by the symbol **I**.
- Power OFF condition is indicated by the symbol **○**.

# Installation

Please read the following carefully when installing this unit.

## CAUTION

- Special expertise and techniques are required for mounting this unit. Be sure to ask your dealer or a specialist to perform mounting.
- Turn off the power of the projector unit, and unplug the power cord when fixing screws to the unit body.
- Use only the screws that are used for this unit. Using screws of different lengths may cause parts to fall off, damage the components inside the unit and cause malfunction.

## Optional Projection Lens

Mount the optional projection lens (P. 62). For details on mounting the lens, please consult your authorized dealer.

## Shift Lock Screws on the OP Unit

### When using the shift function

- 1 Remove the screws of 6 locations on the front panel with a Phillips screwdriver. (Refer to Fig.1)
- 2 Remove the front panel.
- 3 Remove the shift lock screws of 2 locations with a Phillips screwdriver. (Refer to Fig.2)
  - To use the shift function, make sure to remove the shift lock screw. Using this unit without removing the shift lock screw will cause the unit to malfunction.
- 4 Please be sure to retain the removed screws. (Tighten the shift lock screws once again for the next transportation.)

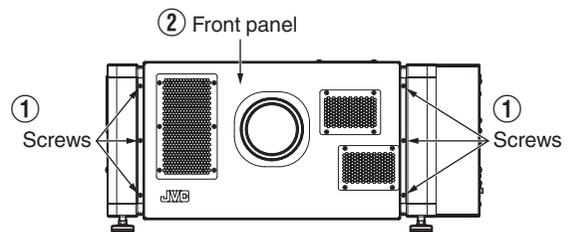


Fig.1

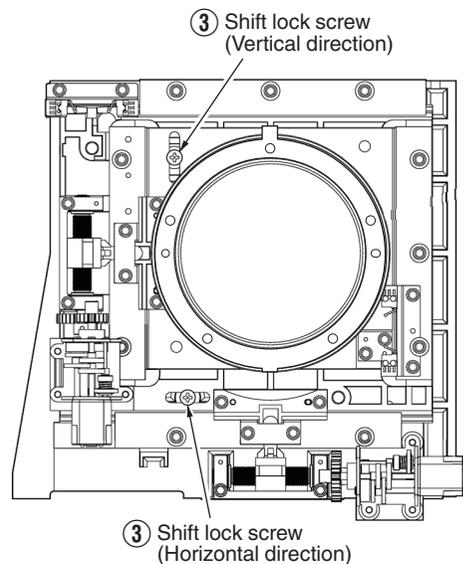
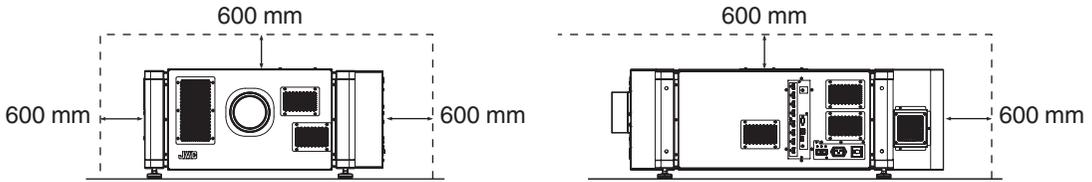


Fig.2

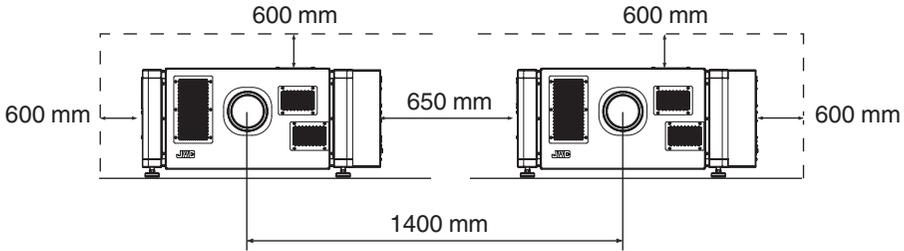
## Minimum Space Required

Do not use a cover that may enclose this unit or block the air inlets/vent holes. Allow sufficient space around this unit. When this unit is enclosed in a space with dimensions as indicated below, ventilate accordingly so that the internal and external temperatures are the same.

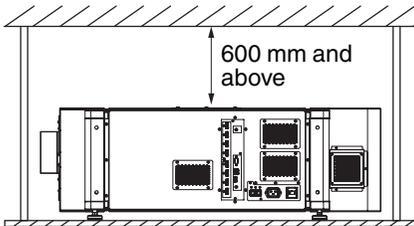
### When using one set of projector



### When using two sets of projectors side by side



### When the projector is suspended



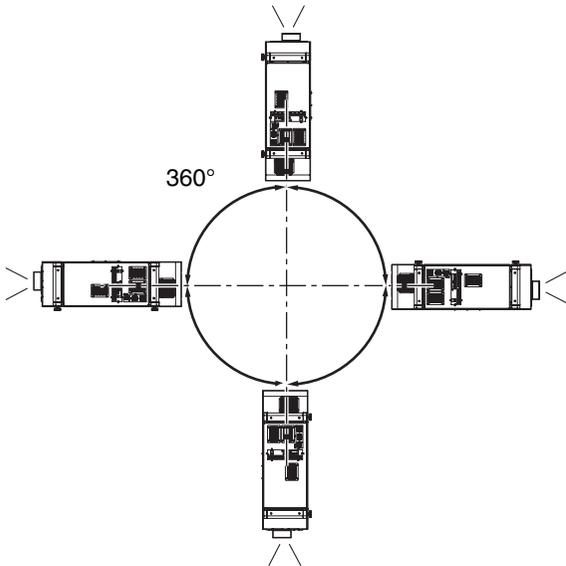
### MEMO

- To prevent the projector from falling or toppling, it is recommended that the holder be fastened to the unit using bolts.
- To mount the projector to the ceiling, mount a special shelf to the ceiling, followed by installing the unit on the shelf. For safety and maintenance purposes, equipment that eases adjustment to a suitable height for maintenance is required.

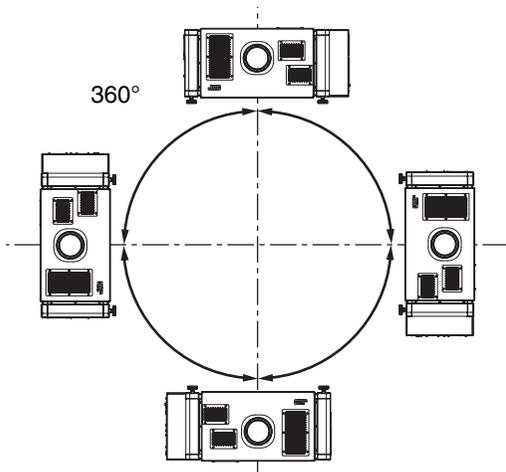
## Projector Installation Angle

There are no restrictions on the vertical or horizontal installation angle of this unit.

### Vertical Angle



### Horizontal Angle



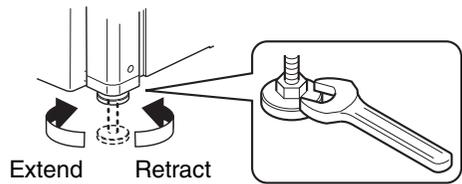
### CAUTION

- Special expertise and techniques are required for mounting this unit. Be sure to ask your dealer or a specialist to perform mounting.

### Adjusting the Inclination

Adjust the horizontal angle of the projector.

Lift the projector and turn the nut of the adjustable foot with a spanner in the direction indicated by the arrow to extend or retract the foot. The adjustable range is 20 mm.



# Installing the Projector and Screen

It is recommended that this projector be installed at right angle to the screen.

When a lens that supports lens shift (optional) is in use, you can make use of the lens shift feature of this projector to shift the projection screen vertically from 0% to up to  $\pm 50\%$ , and horizontally from 0% to up to  $\pm 25\%$ .

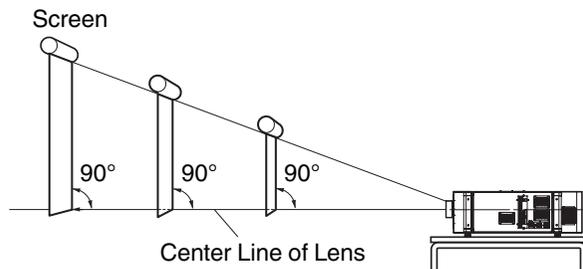
Below are some examples on the layout when a lens that supports lens shift is used.

## Lens Shift Fixation Mechanism

A screw for securing the lens shift mechanism is attached in the factory shipment to prevent damage of the equipment during transportation. If the lens does not move horizontally or vertically when you operate "Shift" in the "Lens" menu, this could be because the screw has not been removed. When this occurs, please consult your authorized dealer.

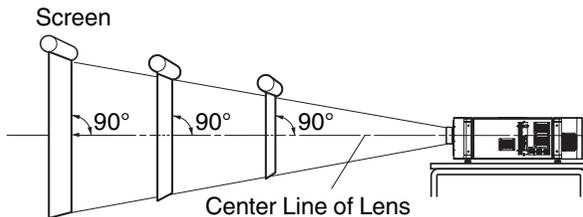
## When shift amount in the upward direction is +50 %

Install the projector such that the lower end of the projection screen is at the same height as the center of the lens.



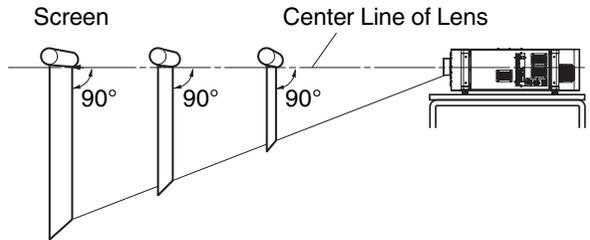
## When shift amount in the upward/downward direction is 0 %

Install the projector such that the center of the projection screen is at the same height as the center of the lens.



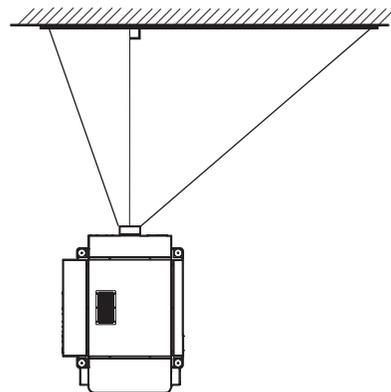
## When shift amount in the downward direction is -50 %

Install the projector such that the upper end of the projection screen is at the same height as the center of the lens.



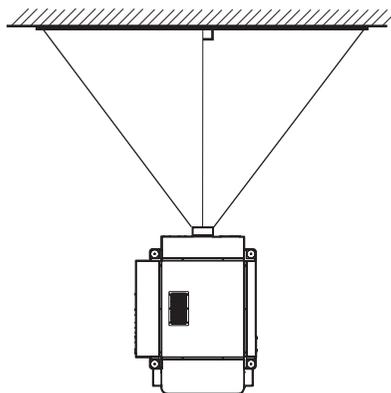
## When shift amount in the right direction is +25 %

Install the projector such that the center of the lens is aligned with the 1/4 position from the left edge of the screen.



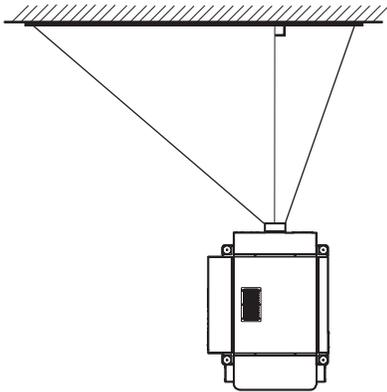
## When shift amount in the left/right direction is 0 %

Install the projector such that the center of the lens is aligned with the center of the screen.

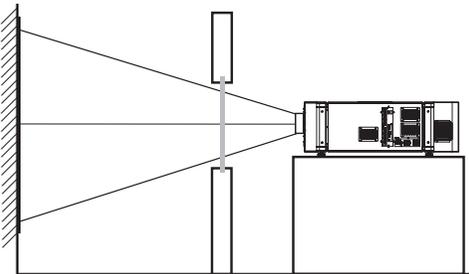


### When shift amount in the left direction is -25 %

Install the projector such that the center of the lens is aligned with the 1/4 position from the right edge of the screen.



### When light passes through the glass of projection booth



### MEMO

- When light passes through the glass, the quantity of light decreases. Make sure that the glass of the projection booth is not more than one piece.
- Do not use glass if possible.
- When projecting light on an inclined glass surface, adjust the glass angle as well as installation angle of this unit accordingly to prevent impact on the image due to diffuse reflection.

## Screen Size and Projection Distance

Adjust the distance from the lens to the screen to achieve your desired screen size.

### GL-MS8016SZ Zoom lens

Projection Screen Size (Diagonal Length)	Image Width	Projection distance	
		Tele End	Wide End
70" (Approx. 1.79 m)	1.54 m	2.73 m	2.24 m
80" (Approx. 2.03 m)	1.75 m	3.06 m	2.51 m
90" (Approx. 2.29 m)	1.97 m	3.41 m	2.78 m
100" (Approx. 2.54 m)	2.19 m	3.71 m	3.03 m
110" (Approx. 2.79 m)	2.41 m	4.00 m	3.26 m
120" (Approx. 3.05 m)	2.63 m	4.28 m	3.48 m
130" (Approx. 3.30 m)	2.85 m	4.53 m	3.67 m
140" (Approx. 3.56 m)	3.07 m	4.77 m	3.86 m
150" (Approx. 3.81 m)	3.29 m	4.97 m	4.01 m

# Connecting Video Signals

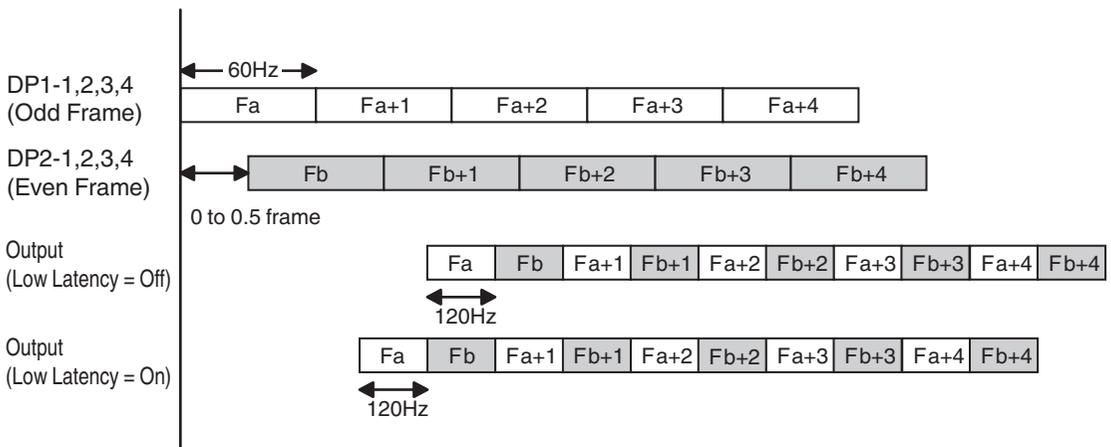
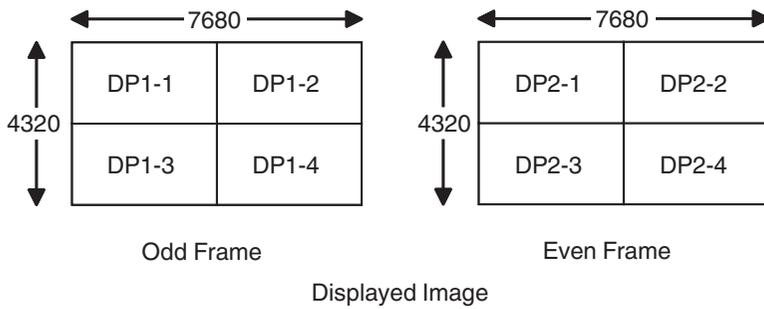
## Possible Input Signals and Projected Image

Input	Designation	V Freq. [Hz]	Total No. of Lines [line]	No. of Effective Lines [line]	H Freq. [kHz]	Total No. of Dots [dot]	No. of Effective Dots [dot]	dot CLK [MHz]	Projector Terminal for Connection	Displayed Projector Image		
3840x2160p60 x 8ch	4k60p (3840x2160)	60.000	2250	2160	135.000	4400	3840	594.000	[DP1-1] - [DP-1-4], [DP2-1] - [DP-2-4]	7680x4320p120		
		59.940	2250	2160	134.865	4400	3840	593.406				
	3840x2160/60p CVT-RB	59.997	2222	2160	133.313	4000	3840	533.250				
1920x2160p60 x 8ch	1920x2160/60p	60.000	2250	2160	135.000	2200	1920	297.000		[DP1-1] - [DP-1-4], [DP2-1] - [DP-2-4]	7680x4320p60	
		59.940	2250	2160	134.865	2200	1920	296.703				
1920x2160p120 x 8ch	1920x2160/120p	120.000	2250	2160	270.000	2200	1920	594.000			[DP1-1] - [DP-1-4]	7680x4320p120
		119.880	2250	2160	269.730	2200	1920	593.406				
3840x2160p60 x 4ch	4k60p (3840x2160)	60.000	2250	2160	135.000	4400	3840	594.000	[DP1-1] - [DP-1-4]			7680x4320p60
		59.940	2250	2160	134.865	4400	3840	593.406				
	3840x2160/60p CVT-RB	59.997	2222	2160	133.313	4000	3840	533.250				
3840x2160p120 x 4ch	3840x2160/120p CVT-RB2	120.000	2287	2160	274.440	3920	3840	1075.804		[DP1-1]		7680x4320p120
3840x2160p60 x 1ch	4k60p (3840x2160)	60.000	2250	2160	135.000	4400	3840	594.000			[DP1-1]	7680x4320p60
		59.940	2250	2160	134.865	4400	3840	593.406				
	3840x2160/60p CVT-RB	59.997	2222	2160	133.313	4000	3840	533.250	3840x2160p60			

Connection and Installation

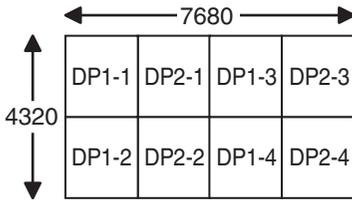
# 3840x2160p60 x 8ch

DP1-1, DP1-2, DP1-3, DP1-4 : Odd Frame Input  
 DP2-1, DP2-2, DP2-3, DP2-4 : Even Frame Input

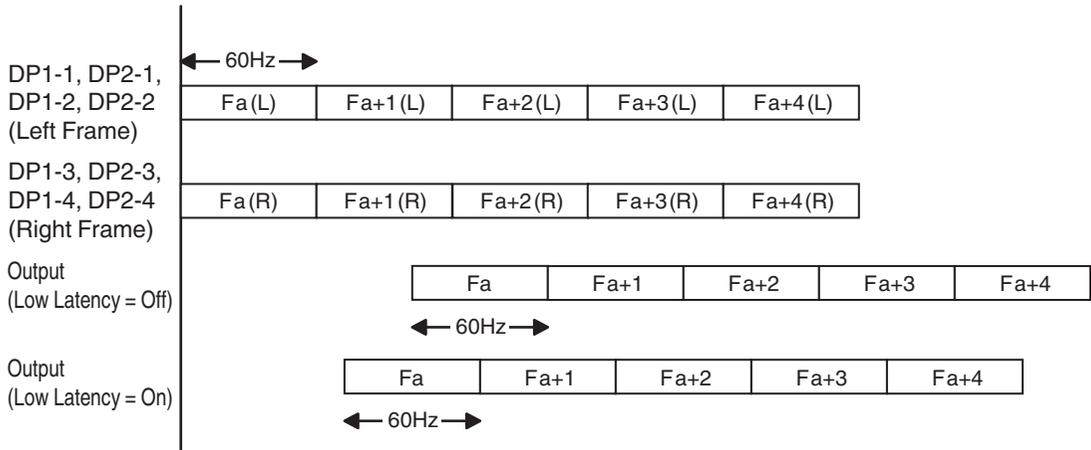


# 1920x2160p60 x 8ch

DP1-1, DP2-1, DP1-2, DP2-2 : Left Frame Input  
 DP1-3, DP2-3, DP1-4, DP2-4 : Right Frame Input



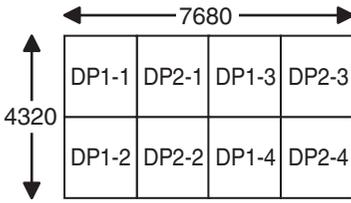
Displayed Image



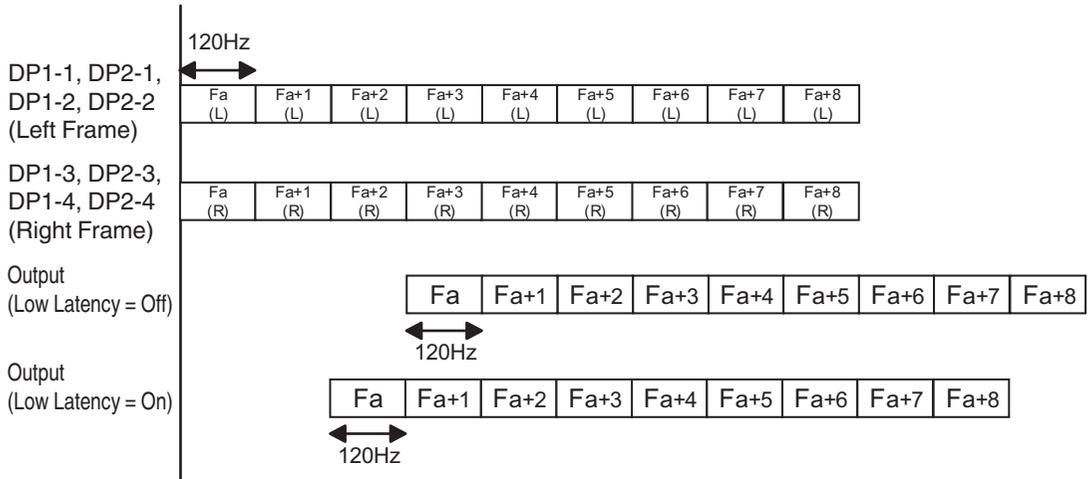
Connection and Installation

# 1920x2160p120 x 8ch

DP1-1, DP2-1, DP1-2, DP2-2 : Left Frame Input  
 DP1-3, DP2-3, DP1-4, DP2-4 : Right Frame Input



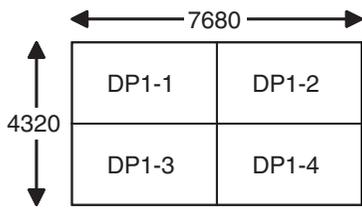
Displayed Image



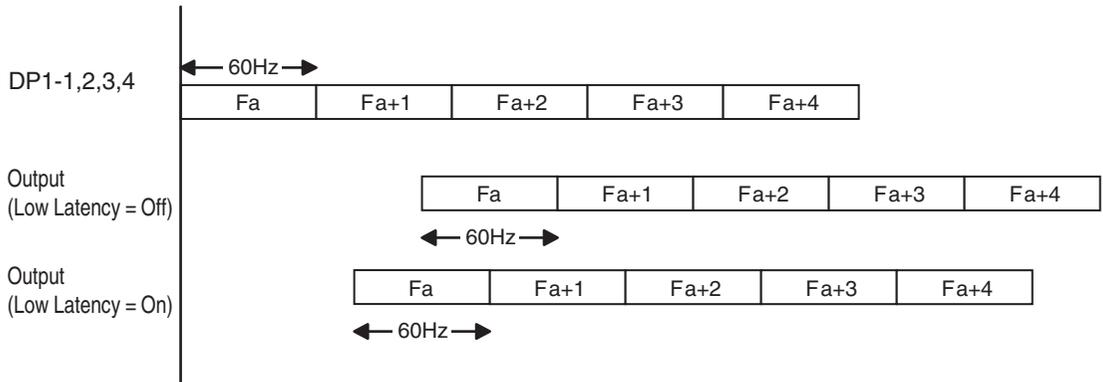
# 3840x2160p60 x 4ch

DP1-1, DP1-2, DP1-3, DP1-4 : Input

DP2-1, DP2-2, DP2-3, DP2-4 : No Input



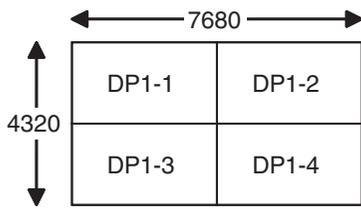
Displayed Image



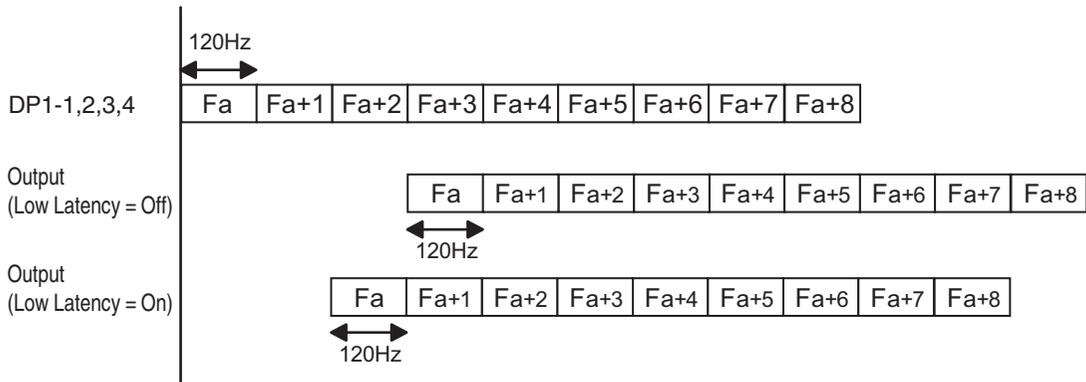
Connection and Installation

### 3840x2160p120 x 4ch

DP1-1, DP1-2, DP1-3, DP1-4 : Input  
 DP2-1, DP2-2, DP2-3, DP2-4 : No Input



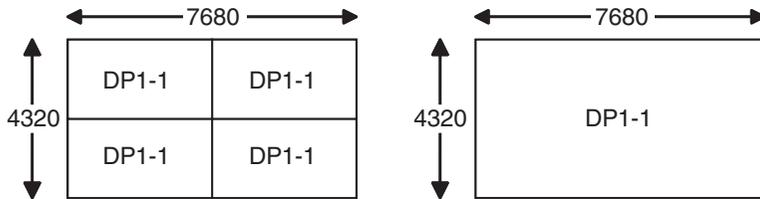
Displayed Image



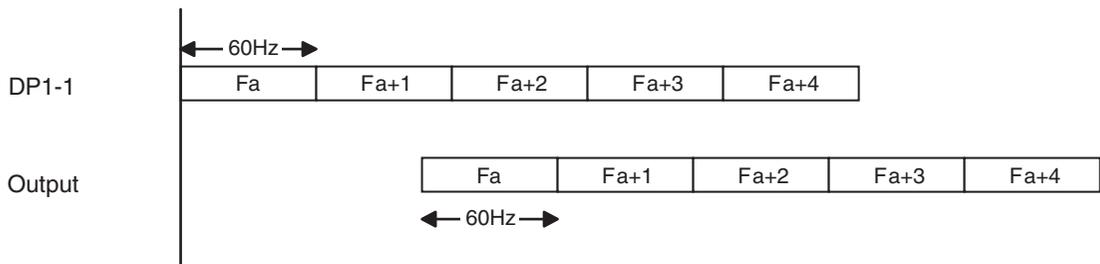
### 3840x2160p60 x 1ch

DP1-1 only working

"1ch Display Setting" is set to "4 Tiles"      "1ch Display Setting" is set to "Scaling"



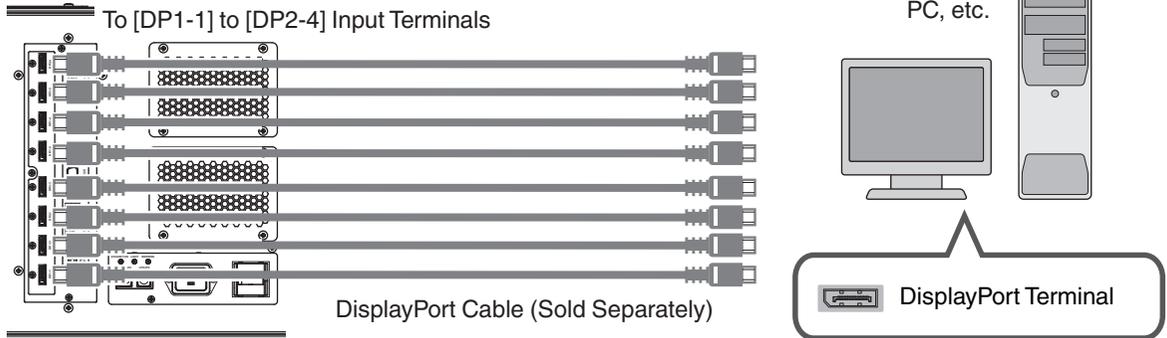
Displayed Image



# Connecting the Projector

## Connecting to the DisplayPort Terminals

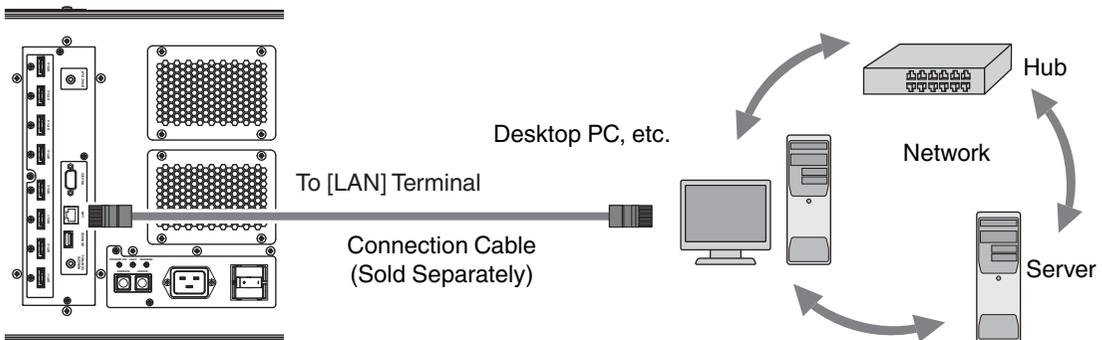
This Unit



- For 8-ch input mode, connect to the [DP1-1] to [DP2-4] terminals.
- For 4-ch input mode, connect to the [DP1-1] to [DP1-4] terminals.
- For 1-ch input mode, connect to the [DP1-1] terminal.
- ➔ “Connecting Video Signals” (P. 18)
- When disconnecting the DisplayPort cable, make sure to release the latch and unplug the cable.
- The images may not be displayed depending on the cable. Try using another cable or contact your authorized dealer.

## Connecting to the LAN Terminal

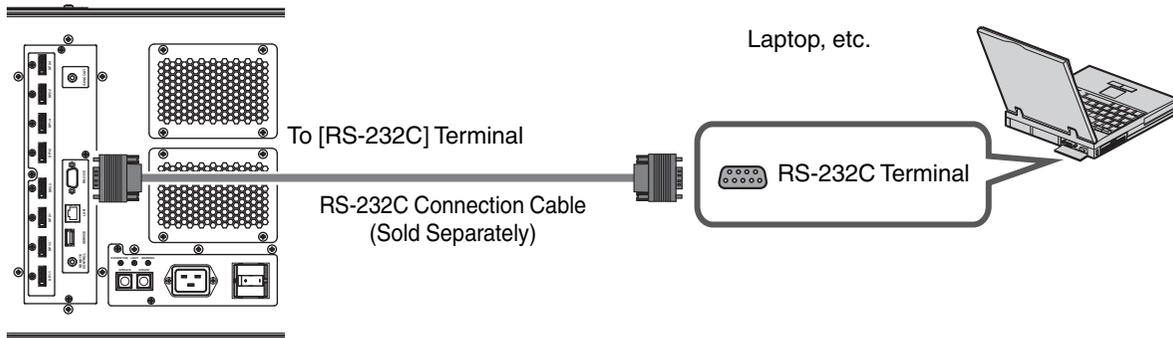
This Unit



- The network is used to control this unit. It is not used for sending or receiving video signals.
- Please contact your network administrator for information concerning the network connection.
- Configuration of a network password is necessary before connecting to the LAN terminal. Please refer to “Network”P. 47, 48 in “Function” Menu.
- For more information on control, please refer to “External Control”P. 57.

## Connecting to the RS-232C Terminal

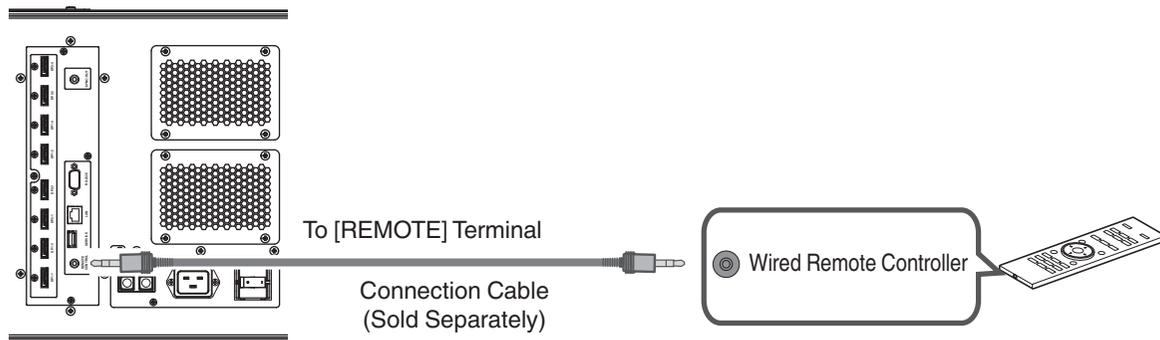
This Unit



- For more information on control, please refer to “External Control”P. 57.

## Connecting to the REMOTE Terminal

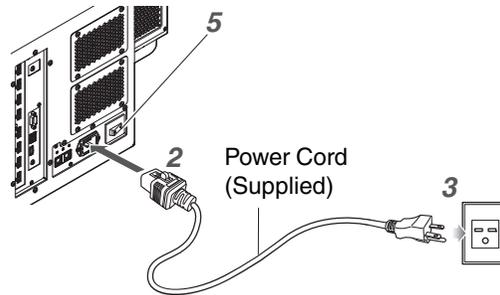
This Unit



- For more details on the wired remote controller and connection cable, please consult your dealer.

# Turning On the Main Power

- 1 Check to ensure that this projector, computer, and switching hub are properly connected
- 2 Connect the power cord to the power input terminal of this projector



## CAUTION

- Do not connect the power cord when a lens (optional) is not attached.

- 3 Insert plug into the power outlet on the wall
- 4 Remove the lens cap
- 5 Turn on the main power of the projector to set to [I]
  - The [STANDBY/ON] indicator lights up in red.

---

# Projecting Image

- Connect the power cord, and ensure that the [STANDBY/ON] indicator lights up in red.
- Remove the lens cap.

## 1 Turn on the power

Press the [OPERATE] button on the projector unit for more than one second.

The unit is turned on and the image is projected.

The [STANDBY/ON] indicator lights up in green.

## 2 Turn off the power

Press the [OPERATE] button on the projector unit for more than one second.

The light of the LD block goes off, and the [STANDBY/ON] indicator switches to a red blinking light.

After the light goes off, the fan will run to cool down the LD block (Cool-down mode).

Do not disconnect the power cable while cooling is in progress.

After exiting the cool down mode, the projector switches automatically to the standby mode, and the [STANDBY/ON] indicator lights up in red.

## CAUTION

- The power cannot be turned on again while cooling is in progress.
- Pull out the power plug when the unit is not to be used for a prolonged period of time.
- If the indication of indicator differs from the description, refer to “Indicator Display on the Main Unit” P. 63 for details.

---

# Firmware Update

## Required Equipment

- PC  
A PC capable of connecting to the Internet, downloading the firmware for updating from our website and extracting the zip file.
- USB drive (1 GB or more, FAT32 format)
- \* Make sure there are no other folders and files in the USB drive.

### 1 Downloading the Update File

### 2 Checking the Firmware Version

### 3 Performing the Update

Connect the USB drive to [SERVICE] terminal and press the [UPDATE] button on the projector unit for more than one second.

### 4 Checking the Firmware Version after Updating

For the latest software information and detailed update instructions, refer to <https://www3.jyckenwood.com/english/download/>.

# Adjustments and Settings in the Menu

You can use the optional remote control to display menus and configure various function settings. This chapter describes the functions that can be configured by displaying the menu.

\* For information on how to configure using external control, please consult your dealer.

Pressing the [MENU] button displays the menu.

Press the [▲▼◀▶] keys to select an item, followed by pressing the [OK] button to confirm the selection.

## List of Menu Items

### Picture Adjust

▶ Picture Mode .....	P. 31
↳ Sharpness .....	P. 31
↳ Auto Intensity .....	P. 31
↳ LD Current .....	P. 31
↳ User Name Edit .....	P. 31
▶ Color Temp. ....	P. 32
▶ Gamma .....	P. 33
▶ Blur Reduction .....	P. 34
↳ Clear Motion Drive .....	P. 34
↳ Motion Enhance .....	P. 34
▶ Contrast .....	P. 34
▶ Brightness .....	P. 34
▶ Color .....	P. 34
▶ Tint .....	P. 34

### Input Signal

▶ Input Level .....	P. 35
▶ Color Space .....	P. 35
▶ Channel Hide .....	P. 35
▶ Low Latency .....	P. 35

## Installation

- ▶ Lens Control ..... P. 37
  - ↳ Focus ..... P. 37
  - ↳ Zoom ..... P. 37
  - ↳ Shift ..... P. 37
  - ↳ Image Pattern ..... P. 37
  - ↳ Lock ..... P. 38
- ▶ Pixel Adjust ..... P. 39
  - ↳ Adjust ..... P. 39
  - ↳ Adjust Area ..... P. 39
  - ↳ Adjust Color ..... P. 39
  - ↳ Adjust Pattern ..... P. 39
  - ↳ Adjust Pattern Color ..... P. 39
  - ↳ Adjust (Pixel) ..... P. 39
  - ↳ Adjust (Fine) ..... P. 39
  - ↳ Reset ..... P. 39
- ▶ Image Shift ..... P. 43
  - ↳ Adjust Color ..... P. 43
  - ↳ Adjust Pattern ..... P. 43
  - ↳ Adjust ..... P. 44
- ▶ Mask ..... P. 45
- ▶ H / V Flip ..... P. 45
- ▶ LED Indication ..... P. 45
- ▶ High Altitude Mode ..... P. 45

## Display Setup

- ▶ Back Color ..... P. 46
- ▶ Menu Position ..... P. 46
- ▶ Signal Display ..... P. 46
- ▶ Logo ..... P. 46

## Function

- ▶ Sync Out ..... P. 47
- ▶ Off Timer ..... P. 47
- ▶ Network ..... P. 47
  - ↳ Network Password ..... P. 48
- ▶ Remote Code ..... P. 49
- ▶ Hide Mode ..... P. 49
- ▶ Software Update ..... P. 49

## Information

- ▶ Information ..... P. 50



## Picture Adjust

### Picture Mode

You can adjust the image quality according to the type of video image you are viewing.

Setting	Description
Natural	Image quality that focuses on natural color and gradation reproduction. Suitable for displaying video images in general.
Dynamic	This is the picture setting best suited for viewing the picture in a room that cannot be made completely dark.
User 1 to User 6	Enables user-defined image quality data to be saved and retrieved.

You can configure the following setting items by pressing the [MENU] button to display the menu, followed by selecting "Picture Adjust" → "Picture Mode" and pressing the [OK] button.

### Sharpness

The sharpness of the image can be adjusted.

- Setting: 0 (low sharpness) to 50 (high sharpness)

### Auto Intensity

Controls the LD current value to maintain the projector brightness at a constant level.

Setting	Description
Off	Light intensity is manually set.
On	Light intensity will be constant.

### LD Current

Controls the brightness of the light source by controlling the LD current.

- Setting range: 38 to 100
- \* This function cannot be used when "Auto Intensity" is set to "On".
- The [LIGHT] indicator lights up in Orange when "Auto Intensity" is set to "On" and "LD Current" reaches 95 and above.

### User Name Edit

You can edit the "User 1" to "User 6" names in the Picture mode.

- Characters that are usable include alphabets (upper or lower case), numeric characters, symbols and blank (space) character. (However, blank (space) cannot be used for the first and last characters.)
- Enter not more than 10 characters.

The screenshot shows the "User Name Edit" menu. At the top, it says "> User Name Edit". Below that, it says "Name User 1" followed by a text input field. A "Selection Cursor" points to the letter 'A' in the top-left corner of the keyboard. An "Input Cursor" points to the text input field. The keyboard has rows for uppercase letters (A-M), lowercase letters (a-m), and numbers/symbols (1-0, ., ^, !, \*, #, \$, %, &, \*, +, -, /, ?, @, :, ;, |, ~, (, ), <, >, [, ], {, }, \). At the bottom, there are four buttons: "Space", "Clear", "All Clear", and "OK".

After entry is complete, select "OK" and press the [OK] button

## Color Temp.

For setting the color temperature of the video image.

- The selectable “Color Temp.” settings vary according to “Picture Mode”.

### “Color Temp.”

Color Temp.	Description
6380K(0.31,0.37)	Increasing the value enhances the blue tone of the video image, while decreasing the value enhances the red tone.
6500K	
7500K	
High Bright	Color temperature that gives priority to brightness.
Custom 1 to Custom 2	The color temperature of video images can be adjusted manually and saved as one of the three customized settings.

### List of selectable “Color Temp.” according to “Picture Mode”

Picture Mode	Color Temp.
Natural User 1 to User 6	6380K(0.31,0.37)
	6500K
	7500K
	High Bright
	Custom 1 to Custom 2
Dynamic	High Bright

### Correction Value

For setting the base color temperature for the adjustment of “Gain Red” / “Gain Green” / “Gain Blue” / “Offset Red” / “Offset Green” / “Offset Blue” when one of the “Custom 1” to “Custom 2” setting is selected in “Color Temp.”.

- If the color profile is imported using the calibration software, select “Default”.
- This item cannot be set when “Picture Mode” is set to “Dynamic”.

### List of Selectable “Correction Value” According to “Color Temp.”

Color Temp.	Correction Value
Custom 1 to Custom 2	6380K(0.31,0.37)
	6500K
	7500K
	High Bright
	Default

### Gain Red / Gain Green / Gain Blue

Adjusts each color in the bright parts of the video image.

- Setting range: -255 (reduces the red/green/blue tone) to 0 (no adjustment)

### Offset Red / Offset Green / Offset Blue

Adjusts each color in the dark areas of the video image.

- Setting range: -50 (reduces the red/green/blue tone) to 0 (no adjustment) to +50 (enhances the red/green/blue tone)

## Gamma

You can adjust the output value of the projected image with respect to the video signal input.

### “Gamma”

Gamma	Description
1.8	The gamma is set to “1.8”.
2.2	The gamma is set to “2.2”.
2.6	The gamma is set to “2.6”.
Custom 1 to Custom 3	Enables fine adjustment of gamma according to preference.

You can perform fine adjustments based on the selected gamma adjustment setting.

### Correction Value

For configuring the gamma to be used as the basis for adjustment when one of the “Custom 1” to “Custom 3” settings is selected in “Gamma”.

- Setting: 1.8 / 1.9 / 2.0 / 2.1 / 2.2 / 2.3 / 2.4 / 2.5 / 2.6 / import / Default
- If the color profile is imported using the calibration software, select “Default”.

### Adjustment item and its setting

Item	Description	Setting
Color Selection	For selecting the color for adjusting “Picture Tone”, “Dark Level” and “Bright Level”.	White / Red / Green / Blue
Picture Tone	Adjusts the overall brightness automatically for a well-balanced result without compromising the gradation of the image.	-16 (darkens image for an underexposed effect) to +16 (brightens image for an overexposed effect)
Dark Level	Adjusts the dark areas of the input image. <ul style="list-style-type: none"><li>• To do so, use the ◀▶ keys to move the cursor.</li></ul>	-7 (darkens the shadows) to +7 (brightens the shadows)
Bright Level	Adjusts the bright areas of the input image. <ul style="list-style-type: none"><li>• To do so, use the ◀▶ keys to move the cursor.</li></ul>	-7 (darkens the highlights) to +7 (brightens the highlights)

### When “Correction Value” is set to “Import”

- By selecting “Import” for “Correction Value”, the gamma data created externally can be selected as the base setting value for adjustment.
- The factory setting for “Import” is “2.2”.
- You can use the calibration software to customize the gamma data adjustment, and import the created gamma data. Please check with your authorized dealer for details.

## Blur Reduction

For reducing the after-image, which occurs in a fast-moving scene.

- Blur Reduction is grayed out and cannot be adjusted when signal is out of range or when detecting the input.

## Clear Motion Drive

For reducing the after-image, which occurs in a fast-moving scene.

- Pressing the [C.M.D.] button each time switches the mode in the following sequence: “Off” → “On”→“Off”...

\* C.M.D. is the abbreviation for Clear Motion Drive.

Setting	Description
Off	Turns Off the blur reduction features.
On	Applies black insertion to minimize blurriness in the video images. The screen may flicker in this mode.

## Motion Enhance

You can reduce motion blur with this function enhancing the response of D-ILA image devices.

If the image outline is unnatural, set this item to “Off”.

Setting	Description
Off	Does not perform correction.
On	Reduces image blurring.
Red	When Motion Enhance is set to “On”, adjust each color using Red/Green/Blue.
Green	
Blue	

## Contrast

For adjusting the white level point to avoid clipping or over saturation.

- Setting range: -50 (little difference in brightness) to +50 (large difference in brightness)

## Brightness

For adjusting the black level point to avoid clipping or over saturation.

- Setting range: -50 (darker) to +50 (brighter)

## Color

For adjusting the color density of the video image.

- Setting range: -50 (lighter) to +50 (deeper)

## Tint

For adjusting the hue of the video image.

- Setting range: -50 (reddish) to +50 (greenish)



## Input Signal

### Input Level

For setting the dynamic range (gradation) of the video input.

- If the dynamic range is not appropriate, the bright areas become overexposed, and the dark areas become underexposed.

Setting	Description
16-235 (Video)	Select this setting if you are inputting video signals (dynamic range: 16 - 235).
0-255 (PC)	Select this setting if you are inputting PC signals (dynamic range: 0 - 255).

### Color Space

For setting the color space of the input signal.

Setting	Description
YCbCr444	Select this setting when inputting YCbCr (4:4:4) video signals.
YCbCr422	Select this setting when inputting YCbCr (4:2:2) video signals.
RGB	Select this setting when inputting RGB video signals.

### Channel Hide

A function for configuring whether to display video images for each DisplayPort input terminal.

Setting	Description
DP1-1 DP1-2 DP1-3 DP1-4 DP2-1 DP2-2 DP2-3 DP2-4	Off On
	Displays video images with the Hide function disabled.
	Enables the Hide function and does not display video images.

### Low Latency

For reducing the amount of input signal delay.

- When using the low latency function, the input signal at the bottom of the screen must be input in an inverted state.

Setting	Description
Off	Turns off the low latency function.
On	Turns on the low latency function.

## 1ch Display Setting

For configuring the display method during 1-ch Input Mode. (“Possible Input Signals and Projected Image”P. 18)

Setting	Description
4 Tiles	Displays four input signals side by side.
Scaling	Magnifies and displays the input signal twice its size horizontally and vertically.

## Forced 60Hz Display Setting

This function is for setting the display screen when the device protection function is activated.

### Device Protection Function

For formats that display two input videos, DP1-x and DP2-x, in the same location, a restriction mode will be activated to display only one input video to protect the device if the video level difference between the two input videos is large. In particular, when inputting a 4k60p signal in 8-ch Input Mode, if the signal is input only to either DP1-x or DP2-x, the device protection function may be activated and only one side of the image may be displayed. This is not a malfunction.

- When the device protection function is in operation, “Forced60p” is displayed in “Status” under “Information”.

Setting	Description
DP1	Displays DP1-x when the device protection function is in operation.
DP2	Displays DP2-x when the device protection function is in operation.



## Installation

### Lens Control

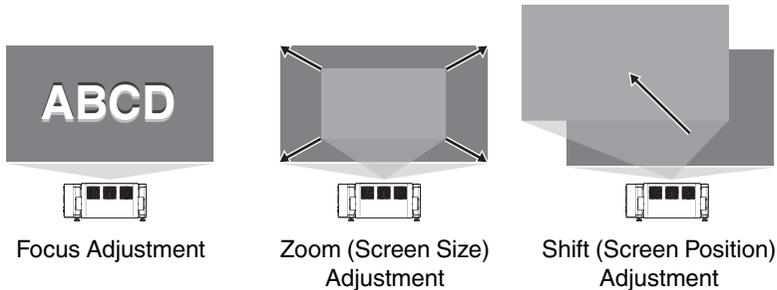
#### Focus / Zoom / Shift

For adjusting the lens according to the projection position

- 1 Press the [LENS CONTROL] button, and use the [▲▼◀▶] keys to adjust Focus, Zoom (screen size), and Shift (screen position)



- Pressing the [LENS CONTROL] or [OK] button each time switches the mode in the following sequence: “Focus” → “Zoom” → “Shift” → “Focus”...



- If the driving range of the motorized lens shift unit is exceeded, the projected screen cannot be shifted anymore when the lens reaches the end.
- Pressing and holding the [▲▼◀▶] keys continuously after the projected screen cannot be shifted anymore will overload the motor causing malfunction.

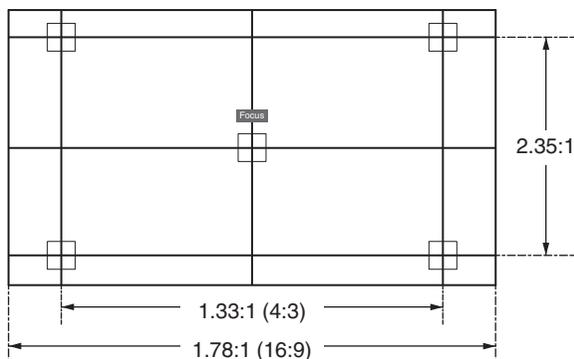
- 2 Press the [MENU] or [BACK] button to end adjustment

#### Image Pattern

For setting whether to display the lens adjustment pattern.

Setting	Description
Off	Displays external signals, and does not display the lens adjustment pattern.
On	Displays the lens adjustment pattern.

## Adjustment Pattern Displayed on the Adjustment Screen



Adjust the display according to the viewing angle of the respective aspect ratios for the adjustment patterns.

\* This is not displayed when "Image Pattern" is configured to "Off".

### Lock

For setting whether to lock or unlock the lens.

Setting to "On" to lock the lens allows you to preserve the adjustment status of the lens.

Setting	Description
Off	Does not lock the lens.
On	Locks the lens to prevent any erroneous operation on the adjustments.

## Pixel Adjust

For correcting the phase shifting between each RGB color by adjusting the pixel.

### Adjust

For setting the adjustment feature to On or Off.

### Adjust Area

Setting	Description
Whole	Adjusts the entire image.
Zone	Enables fine adjustment of each area by dividing the screen evenly into 10 vertical and horizontal zones.

### Adjust Color

For selecting the color to adjust (“Red”, “Green” or “Blue”).

- “Green” cannot be set when “Adjust Area” is set to “Zone”.

### Adjust Pattern

Setting	Description
Off	Displays the external signals without displaying the test pattern for adjustment.
On	Displays the test pattern for adjustment.

### Adjust Pattern Color

For setting the color of the adjustment pattern displayed during adjustment to “White” or “Yellow / Cyan”.

### Adjust (Pixel)

When “Adjust Area” is set to “Whole”, adjustment can be made by moving in units of one pixel on the screen of the color selected in “Adjust Color”.

➔ “Whole Adjust (Pixel) Operation Procedure” (P. 40)

- Adjustment cannot be made when “Adjust Area” is set to “Zone”.

Setting	Description
H (Horizontal)	Setting range: -4 (moves red/green/blue to the left) to +4 (moves red/green/blue to the right)
V (Vertical)	Setting range: -4 (moves red/green/blue downward) to +4 (moves red/green/blue upward)

### Adjust (Fine)

When “Adjust Area” is set to “Whole”, adjustment can be made by moving in units of 1/8 pixel on the screen of the color selected in “Adjust Color”.

➔ “Whole Adjust (Fine) Operation Procedure” (P. 41)

When “Adjust Area” is set to “Zone”, the screen is divided evenly into 10 vertical and horizontal zones, and fine adjustment of each area is possible.

➔ “Zone Adjust Operation Procedure” (P. 42)

- Adjustment cannot be made when “Adjust Color” is set to “Green”.

Setting	Description
H (Horizontal)	Setting range: -31 (moves red/blue to the left) to +31 (moves red/blue to the right)
V (Vertical)	Setting range: -31 (moves red/blue downward) to +31 (moves red/blue upward)

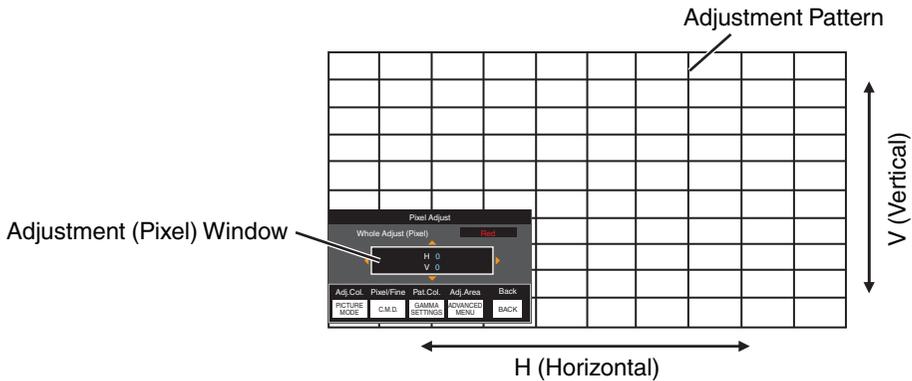
### Reset

Restores all pixel adjustment data to the factory default.

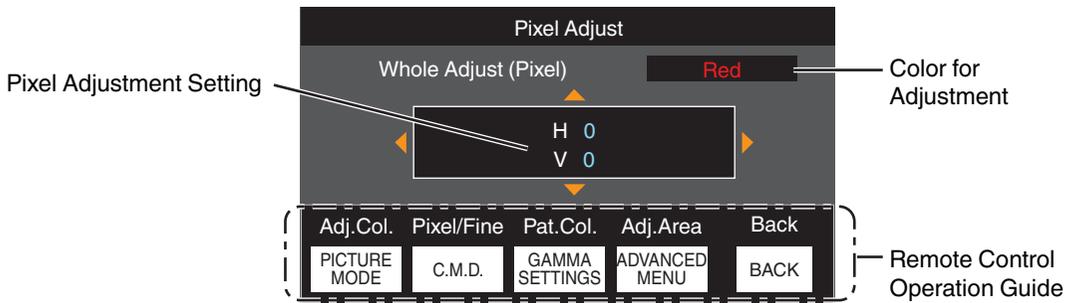
## Whole Adjust (Pixel) Operation Procedure

For making general adjustments to slight color fringing in the horizontal/vertical directions of the video image.

- ① Set “Adjust Area” to “Whole”
- ② Select “Adjust Color” and “Adjust Pattern Color”
- ③ Select “Adjust (Pixel)”, and press the [OK] button
  - The Adjustment mode is activated, and the selected adjustment pattern and Adjustment (Pixel) window are displayed.



- ④ Use the [▲▼◀▶] keys to move and adjust the vertical and horizontal pixels of the entire zone
  - The adjustment setting appears at the center of the Adjustment (Pixel) window.



- ⑤ After adjustment is complete, press the [BACK] button to exit the Adjustment mode

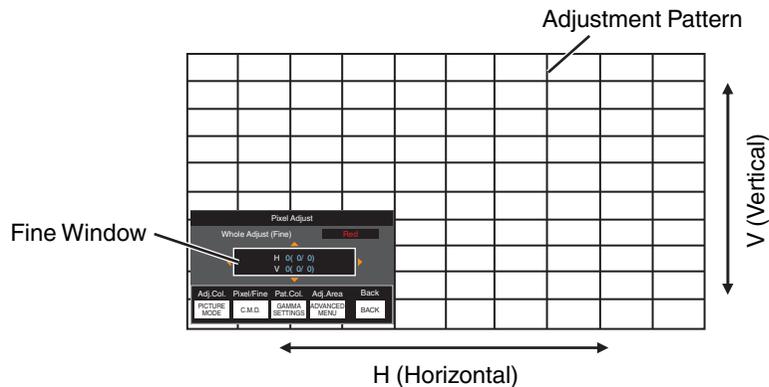
### Remote Control Operation Guide

Button Name	Function	Description of Operation
[PICTURE MODE]	Adj.Col.	Changes “Adjust Color”.
[C.M.D.]	Pixel/Fine	Switches between “Adjust (Pixel)” and “Adjust (Fine)”. <ul style="list-style-type: none"> <li>• Switches to “Adjust (Pixel)” when “Adjust Area” is set to “Zone”.</li> </ul>
[GAMMA SETTINGS]	Pat.Col.	Changes “Adjust Pattern Color”.
[ADVANCED MENU]	Adj.Area	Switches “Adjust Area”. <ul style="list-style-type: none"> <li>• A zone cursor appears on the adjustment pattern when the “Zone” setting is selected.</li> </ul>

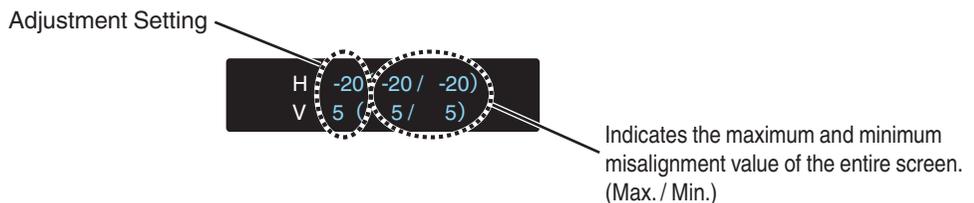
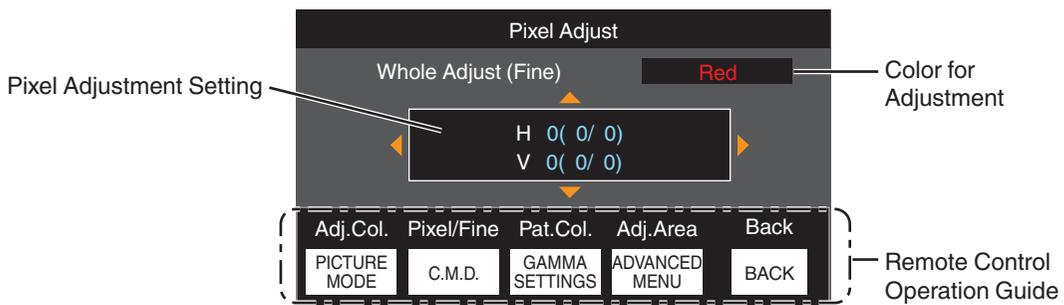
## Whole Adjust (Fine) Operation Procedure

For making general adjustments on the misalignment of the entire screen using “Adjust (Pixel)”, followed by making fine adjustments.

- ① Set “Adjust Area” to “Whole”
- ② Select “Adjust Color” and “Adjust Pattern Color”
- ③ Select Adjust (Fine), and press the [OK] button
  - The Adjustment mode is activated, and the selected adjustment pattern and Fine window are displayed.
  - The adjustable range may be smaller depending on the pixels being adjusted on the entire screen.
  - “Green” cannot be used in “Adjust Color” for Whole Adjust (Fine).



- ④ Use the [▲▼◀▶] keys to move and adjust the vertical and horizontal pixels of the entire zone
  - The adjustment setting appears at the center of the Fine window.



- ⑤ After adjustment is complete, press the [BACK] button to exit the Adjustment mode

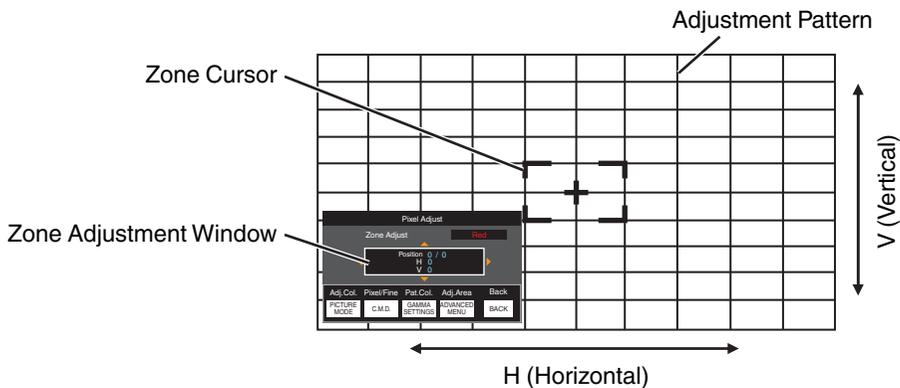
## MEMO

- If both the maximum overall screen misalignment of H (horizontal direction) and V (vertical direction) are “31”, you cannot select a value that is larger than the displayed setting even when the adjustment setting is lower than the maximum value.
- If the minimum overall screen misalignment is “-31”, you cannot select a value that is smaller than the displayed setting even when the adjustment setting is higher than the minimum value.

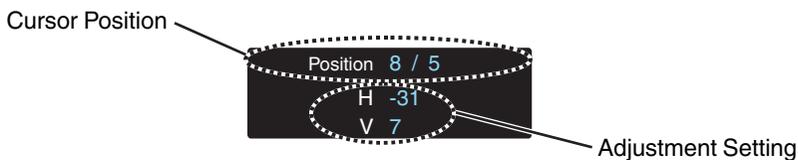
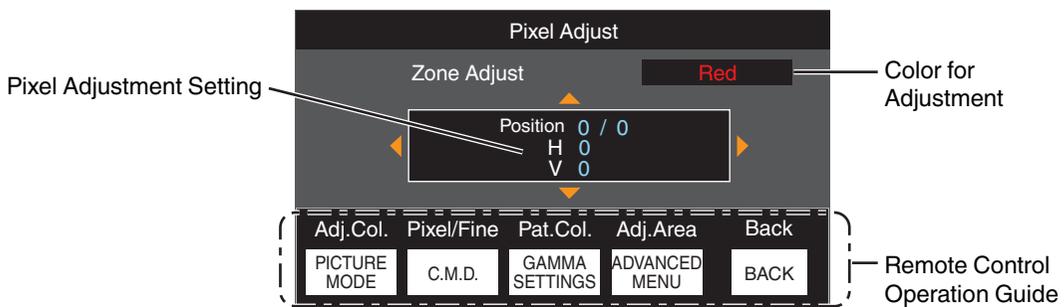
## Zone Adjust Operation Procedure

For fine-tuning misalignments on a part of the screen after adjusting the overall screen misalignment using “Adjust (Pixel)” and “Adjust (Fine)”.

- The screen can be divided vertically and horizontally into 10 sections for partial adjustments to be made.
- ① Set “Adjust Area” to “Zone”
  - ② Select “Adjust Color” and “Adjust Pattern Color”
  - ③ Select Adjust (Fine), and press the [OK] button
    - The Adjustment mode is activated, and the selected adjustment pattern and Zone Adjustment window are displayed.
    - The adjustable range may be smaller depending on the pixels being adjusted on the entire screen.
    - “Green” cannot be used in “Adjust Color” for Zone Adjust.



- ④ Press the [▲▼◀▶] keys to move the cursor to the point to be adjusted
- ⑤ Press the [OK] button to enter the Adjustment mode
- ⑥ Use the [▲▼◀▶] keys to move and adjust the vertical and horizontal pixels of the entire zone
  - The adjustment setting appears at the center of the Zone Adjustment window.



- ⑦ After adjustment is complete, press the [BACK] button to exit the Adjustment mode

---

## Image Shift

This is a function to mechanically shift the “Red” and “Blue” elements.

It is mainly used to align the display positions of the “Green” image at the center of the screen and the “Red”/“Blue” image.

### MEMO

- If the display position of the “Red”/“Blue” image does not move, turn off the power to the main unit, turn it on again, and then perform the same adjustment.

### CAUTION

- Refrain from any use for purpose other than intended, such as moving the display position of “Red”/“Blue” image off too far from normal display position for “Green” image, may cause the unit to malfunction.

## Adjust Color

For selecting the color to adjust (“Red” or “Blue”).

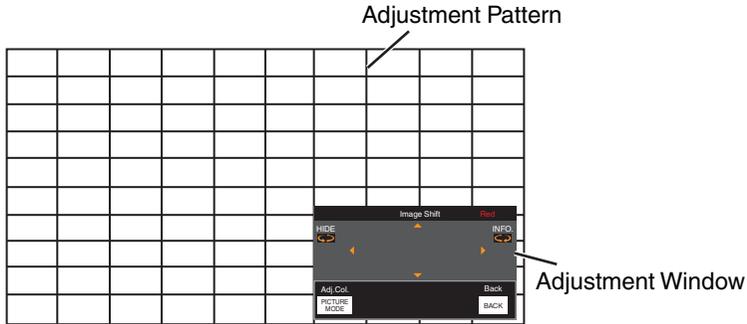
## Adjust Pattern

Setting	Description
Off	Displays the external signals without displaying the test pattern for adjustment.
On	Displays the test pattern for adjustment.

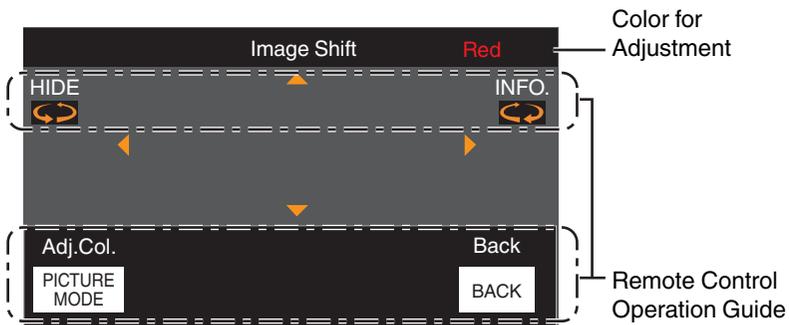
## Adjust

### Image Shift Operation Procedure

- ① Select "Adjust Color"
- ② Select "Adjust", and press the [OK] button
  - The Adjustment mode is activated, and the selected adjustment pattern and Adjustment window are displayed.



- ③ Adjust horizontally and vertically using the [▲▼◀▶] keys
  - Press and hold the button: Perform coarse adjustment using mechanical shift.
  - Short press: Performs fine adjustment using mechanical shift.
- ④ Use the [HIDE] button to adjust the left rotation, and the [INFO] button to adjust the right rotation.
  - Press and hold the button: Perform coarse adjustment using mechanical shift.
  - Short press: Performs fine adjustment using mechanical shift.
- ⑤ Press the [PICTURE MODE] button to change "Adjust Color"



- ⑥ After adjustment is complete, press the [BACK] button to exit the Adjustment mode

## Mask

For hiding the peripheral area of the image with a mask (black strip).

Setting	Description
Off	Not masked.
On	Hides the ranges specified in “Top”, “Bottom”, “Left” and “Right” by masking (with black strips).

■ Off



■ On



Mask: black strip around the periphery

## “Top” / “Bottom” / “Left” / “Right”

For specifying the ranges to hide by masking (with black strips).

- Setting range: 0 to 220

## H / V Flip

For setting the projection to be flipped vertically or horizontally according to the installation condition of the projector.

Setting	Description
H:OFF / V:OFF	Projects without flipping horizontally and vertically.
H:ON / V:ON	Projects after flipping horizontally and vertically.
H:ON / V:OFF	Projects after flipping horizontally only.
H:OFF / V:ON	Projects after flipping vertically only.

## LED Indication

When “LED Indication” is set to “Off”, the LED indicator does not light up or blink under the following status.

- When the time to replace the laser light source is near. (P. 50)
- When HIDE is on.
- When the projector receives a signal from a remote control which is set to a different code mode (A or B). (P. 49)

## High Altitude Mode

For setting the high altitude mode to “On” or “Off”.

Set to “On” when using the projector at a location of low atmospheric pressure (higher than 1500 m above sea level).

## Display Setup

### Back Color

For setting the color of the background to “Blue” or “Black” when there is no signal input.

### Menu Position

For setting the display position of the menu.

### Signal Display

For setting the display of the input information to “On” or “Off”.

Setting	Description
Off	Not displayed.
On	Shows the input terminal for 5 seconds when input is switched.

### Logo

For setting the display of logo during startup to “On” or “Off”.

Setting	Description
Off	Not displayed.
On	Displays the “D-ILA” logo for 5 seconds during startup.



## Function

### Sync Out

For selecting the type of signal to output from Sync Out.

Setting	Description
Input (Positive)	Outputs a signal that is synchronized with the vertical sync signal of the input video signal.
Input (Negative)	Outputs a signal with reversed polarity that is synchronized with the vertical sync signal of the input video signal.
Low	Fixes the output at Low.
High	Fixes the output at High.

### Off Timer

For setting the duration before the power turns off automatically when the projector is not operated.

- Setting values: “Off”, “1 Hour”, “2 Hours”, “3 Hours” and “4 Hours”
- \* The setting will be retained even after the Off Timer operation has completed.

### Network

For specifying the settings for external control from a PC or smartphone.

Setting	Description	
DHCP Client	On	Obtains the IP address automatically from the DHCP server inside the connected network.
	Off	For configuring the network settings manually.
IP Address	For configuring the IP address.	
Subnet Mask	For configuring the subnet mask.	
Default Gateway	For configuring the default gateway.	
MAC Address	Displays the MAC address of the unit.	
Set	Applies the network settings.	

### Glossary of Network Terminology

- DHCP** : Abbreviation for Dynamic Host Configuration Protocol. This is a protocol for the network to assign an IP address automatically to the connected device.
- IP Address** : Numeric characters for identifying the device that is connected to the network.
- Subnet Mask** : Numeric characters that define the bit count used for the network address that is a segment of the IP address.
- Default Gateway** : Server for communicating beyond the network that is divided by the subnet mask.
- MAC Address** : Abbreviation for Media Access Control address. This is a number that is unique to each network adapter. Each of the network adapters is assigned with a unique MAC address.

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## Network Password

For configuring the password during LAN connection.

- Characters that are usable include alphabets (upper or lower case), numeric characters, and symbols.
- Enter a password with at least 8 characters and not more than 10 characters.



## CAUTION

- Configuration of a network password is necessary before connecting to the LAN terminal.

## Remote Code

For changing the remote control code.

Setting	Description
A	Change the remote control code from "B" to "A".
B	Change the remote control code from "A" to "B".

- You need to configure the remote control according to the settings of this unit.  
On the remote control unit, press the [MENU] and [BACK] buttons at the same time for three seconds or longer to switch the code.
  - The backlight of the remote control blinks 3 times: change the remote control code to "A"
  - The backlight of the remote control blinks 2 times: change the remote control code to "B"
- If the setting differs between this unit and the remote control, the "STANDBY/ON" indicator blinks in green when receiving the remote control code.

## Hide Mode

For reducing the power consumption through suppressing the current supply for the LD block when the [HIDE] button is pressed to hide the image temporarily.

Setting	Description
Off	Do not suppress the current supply when the [HIDE] button is pressed to hide the image temporarily.
On	Sets the output current to the specified current value when the [HIDE] button is pressed to hide the image temporarily.

- The output current value when "Hide Mode" is set to "On" can be set using external control. For details on external control, please consult your dealer.

## Software Update

For performing a software update.

For the latest information on the software, refer to <https://www3.jvckenwood.com/english/download/>.

## Information

### Page 1

Setting	Description
Input	Displays the selected Input Mode.
Status	Displays the image output status.
DP1-1 to DP2-4	Displays the information of signal input to each of the terminals.
Light Source Time	Displays the laser light source time.
Soft Ver.	Displays the firmware version.

### Pages 2 to 9

Setting	Description
DP1-1 to DP2-4	Displays the terminal for which the corresponding information is displayed.
Resolution	Displays the image resolution.
H Frequency	Displays the horizontal frequency.
V Frequency	Displays the vertical frequency.
Color Depth	Displays the color bit depth of the input video signal. <ul style="list-style-type: none"><li>• Displayed when Deep Color information is received from the source device.</li></ul>
Color Space	Displays the Color Space detected by AVI Info frame.
Link Rate	Displays the transmission frequency of the input signal.
Lane Count	Displays the number of lanes used for the input signal.
H/V Total	Displays the total number of dots and lines of the input signal.

# Maintenance

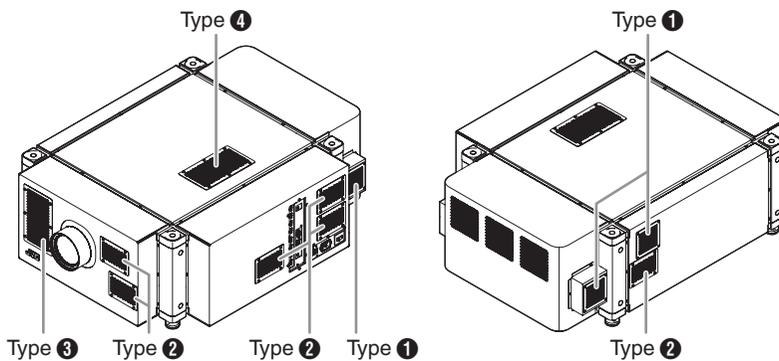
Turn off the power of the projector unit, and unplug the power cord when cleaning or replacing the filter.

## Cleaning and Replacing the Filter

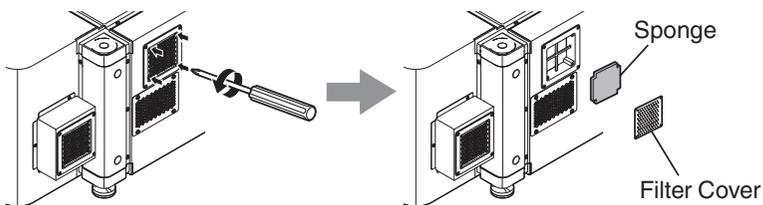
Clean the filter regularly. If the filter is soiled, air intake efficiency may deteriorate, thus resulting in malfunction of the product.

Replace with a new one if the filter fails to remove dust thoroughly or if it is damaged. Failure to do so may cause dust to enter the projector and shadows to appear on the projected image.

If dirt has entered this product or if you need to purchase the filter, please consult the authorized dealer from which this product is purchased or any nearby JVC servicing center.



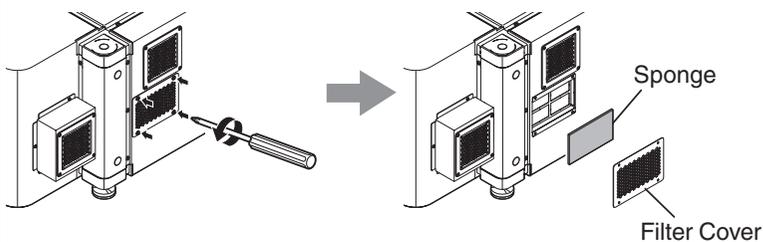
Type 1



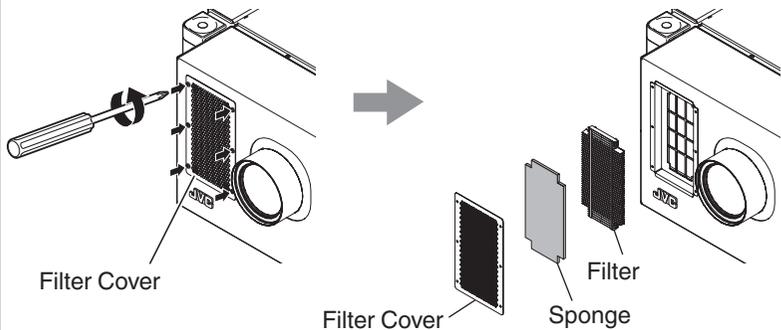
### CAUTION

- Remove the four screws on the inner side (for fastening the filter cover).

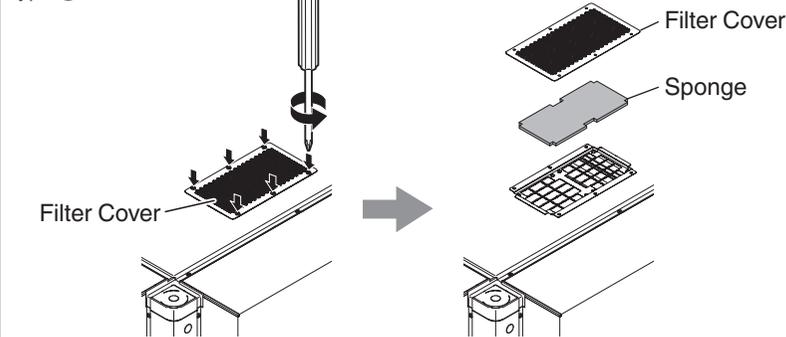
Type 2



### Type ③



### Type ④



#### 1 Loosen the screws and remove the cover

The filter is located at the front, top, left and right side of the projector unit.

#### 2 Remove the sponge and filter

Hold the center of the filter using your fingers, and pull the filter toward you to remove it.

#### 3 Clean the sponge and filter

Use a vacuum cleaner to remove dirt from the sponge and filter carefully.

#### 4 Restore the sponge and filter.

Mount the filter and sponge to the projector using the reverse removed procedure.

Finally, check to ensure that the filter cover is firmly mounted.

#### 5 Restore the cover and fasten the screws.

Finally, check to ensure that the filter cover is firmly mounted.

#### MEMO

- Mount the filter correctly. Failure to do so may cause the projector to malfunction.
- The projector may stop operating if a damaged filter or filter panel is used. In this case, replace the filter or filter panel with a new one.

#### CAUTION

- Do not clean using a flammable air duster. This may cause fire.

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## Routine Servicing

### Clean dirt on the cabinet

Do this with a soft cloth. In case of heavy soiling, soak a cloth in neutral detergent diluted with water, wring dry and wipe, followed by wiping again using a dry cloth.

Pay attention to the following to prevent the cabinet from deteriorating in condition, getting damaged, or the paint from coming off.

- Do not wipe with a stiff cloth
- Do not wipe with force
- Do not wipe with thinner or benzene
- Do not spray volatile chemicals like insecticide
- Do not allow prolonged contact with rubber or plastic products

### Remove dirt that is attached to the vent holes

Do this using a vacuum cleaner. Wipe using a cloth if a vacuum cleaner cannot be used. Leaving dust attached may prevent adjustment of the internal temperature and result in malfunction of the projector.

### Clean dirt on the lens

Do this 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.

Lens surface is fragile. Avoid rubbing or knocking it.

# Troubleshooting

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

The following symptoms are not malfunctions.

**You do not need to worry about the following symptoms if there is no abnormality on the screen.**

- A part of the top or front surface 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.

**This unit is a digital device. This unit may become unable to operate normally due to external static or noise. Perform the following operations when such malfunctions occur.**

- ① If the unit is in the Standby mode, pull out the power plug, followed by inserting it again
- ② Press the [OPERATE] button on the projector unit to turn on the power again

## Power is not supplied

Check	Action	Refer to
Is the power cord disconnected?	Insert the power cord (plug) firmly.	P. 26
Is the main power supply switched turned on?	Turn on the main power supply switch.	P. 26
Is the unit in the Cool-down mode?	After exiting the Cool-down mode, turn on the power again.	P. 27

## Power shuts down automatically

Check	Action	Refer to
Has "Off Timer" been configured?	Set "Off Timer" to "Off".	P. 47
Are the air inlets and exhaust vent blocked?	Leave proper clearance when installing the unit.	P. 10, 13
Is there a large amount of dirt attached to the sponge filter?	Remove the dirt using a vacuum cleaner.	P. 51

## Video image does not appear

Check	Action	Refer to
Is the power of the AV device or PC turned on?	Turn on the power of the AV device or PC and play the video.	P. 24
Is the AV device or PC properly connected?	Connect the AV device or PC properly.	P. 24
Are the correct signals being output from the AV device or PC?	Set the AV device or PC properly.	P. 24

## Video image looks unnatural

### Colors are unnatural

Check	Action	Refer to
Is the color space of the input signal correctly set?	The color may turn out unnatural when the input signal is different from that in the projector setting. Set the "Color Space" for "Input Signal" correctly.	P. 35
Is the image correctly adjusted?	Adjust "Color" and "Tint" accordingly.	P. 34
Is the AV device or PC properly connected?	Connect the AV device or PC properly.	P. 24

\* The video image may appear slightly reddish immediately after starting up. This is not a malfunction.

### Video image is fuzzy

Check	Action	Refer to
Is the focus correctly adjusted?	Adjust the focus.	P. 37
Is the unit placed too near or too far away from the screen?	Set the unit at a correct distance from the screen.	P. 17

### Projected image is dark

Check	Action	Refer to
Is the laser light source near exhaustion?	Check the laser light source time in the "Information" menu. If 20,000 hours have elapsed, the brightness will be half the brightness at shipment.	P. 50
Is the value of the "LD Current" setting small?	Increase the value of the "LD Current" setting.	P. 31
When inputting a 4k60p signal in 8-ch Input Mode, is the signal input only to either DP1-x or DP2-x?	The device protection function may operate and only DP1-x or DP2-x may be displayed, but this is not a malfunction.	P. 19, 36

### Striped patterns appear on the screen

Check	Action	Refer to
Does the fabric of the screen have a regular pattern?	Interference fringes may sometimes occur between the fabric pattern and the pixels. Please consult the authorized dealer.	-

### Video images are missing

Check	Action	Refer to
Has screen mask been configured?	Set "Mask" to "Off".	P. 45

## Noise is heard

Check	Action	Refer to
Is the exhaust vent blocked? Is the unit used near a heater or air-conditioner?	Check the installation condition of the projector. When the surrounding temperature of the projector is high, the fan revolution speed increases to protect the projector unit, hence a louder operating sound.	P. 13

## Unable to connect to LAN terminal

Check	Action	Refer to
Has a network password been configured?	Configuration of a network password is necessary before connecting to the LAN terminal. Configure the network password.	P. 48

## There are small black or colored dots on the screen

The D-ILA device is manufactured using high-precision technologies, but there may be some (less than 0.01%) missing pixels or pixels that remain permanently lit. This is not a malfunction.

# When the Following Messages Appear...

Message	Description	Action
No Input	<ul style="list-style-type: none"><li>No device is connected to the input terminal.</li><li>The input terminal is connected but there is no signal.</li></ul>	Input the video signals.
8ch Input	A video signal that cannot be used with this unit has been input (the names of input terminals such as "8ch Input" will be displayed in yellow).	Input video signals that can be used. (P. 24)
LD Block replacement	Displayed when the lifetime of the LD block has exceeded 20,000 hours.	For details, please consult your authorized dealer.

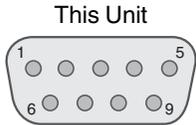
# External Control

It is possible to control this unit by connecting it to a PC using an RS-232C cross cable (D-sub 9-pin). The projector can be controlled by connecting it to a PC through the computer network with a LAN cable for control commands to be sent to the projector.

➔ “ Network ” (P. 47)

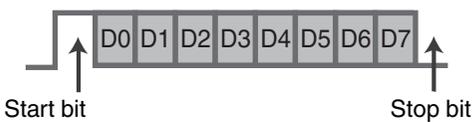
- Please use it after you have gained proper understanding from professional books or consulting the system administrator.

## RS-232C Specifications



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

- PC refers to the controller, such as a personal computer.

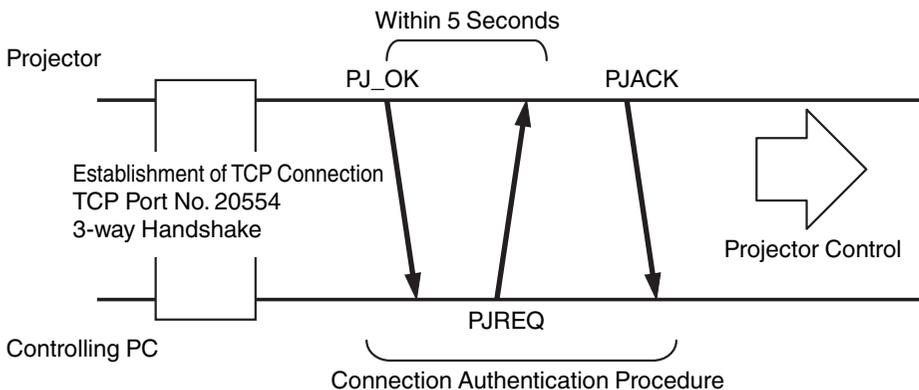


Mode	Non-synchronous
Character length	8 bit
Parity	None
Start bit	1
Stop bit	1
Data rate	19200 bps
Data format	Binary

## TCP/IP Connection

Before controlling via LAN, it is necessary to establish connection of the TCP layer by a “3-way handshake”, followed by sending out “PJREQ” and receiving “PJACK” within five seconds after the projector sends out “PJ\_OK” for connection authentication.

If you are unable to complete sending within five seconds, or when “PJ\_NG” or “PJNAK” is received, check the operating status of the projector, followed by performing the steps again starting from establishment of a TCP connection.



## 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	Type	Description
21	Operating command	PC → This unit
3F	Reference command	PC → This unit
40	Response command	This unit → PC
06	ACK	This unit → PC (returns to PC after the command is accepted without error)

### Unit ID

This is a code that specifies the unit. The binary code is fixed at “8901”.

### Command and data

Operating command and data (binary code)

Command	Type	Description
0000	Connection check	Check whether communication is enabled between this unit and the PC during standby.
5057	Power supply	During standby 31: Turns on the power When power is on 30: Turns off the power (Standby mode)
4950	Input	When power is on 33 : 4-Input 34 : 8-Input 38 : 1-Input
5243	Remote control	Sends the same code as the remote control. • “Remote Control Code”P. 59

Reference command and data (binary code)

Command	Type	Description
5057	Power supply	During standby or when power is on 30: Standby mode 31: When power is on 32: In the Cool-down mode 34: When error occurs on this unit
4950	Input	When power is on 33 : 4-Input 34 : 8-Input 38 : 1-Input

### End

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

## Remote Control Code

Binary code is sent during communication.

- The following applies to the case when the remote control code is “A”. In the case of “B”, add “36” to the beginning of the code.

Remote Control Button Name	Binary Code
STANDBY	37 33 30 36
ON	37 33 30 35
INPUT	37 33 30 38
4ch INPUT	37 33 34 36
8ch INPUT	37 33 34 44
LENS CONTROL	37 33 33 30
HIDE	37 33 31 44
HIDE(On)	37 33 44 30
HIDE(Off)	37 33 44 31
INFO.	37 33 37 34
▲	37 33 30 31
▼	37 33 30 32
◀	37 33 33 36
▶	37 33 33 34
OK	37 33 32 46
MENU	37 33 32 45
BACK	37 33 30 33
PICTURE MODE	37 33 46 34
GAMMA SETTINGS	37 33 46 35
C.M.D.	37 33 38 41
ADVANCED MENU	37 33 37 33
NATURAL	37 33 36 41
DYNAMIC	37 33 36 42
NAME EDIT	37 33 46 37
USER1	37 33 36 43
USER2	37 33 36 44
USER3	37 33 36 45
USER4	37 33 43 41
USER5	37 33 43 42
USER6	37 33 43 43
USER	37 33 44 37
GAMMA	37 33 37 35
COLOR TEMP.	37 33 37 36
PIC. ADJ.	37 33 37 32

## Communications Example

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

### Operating command

Type	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 the 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
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 performed

### Reference command

Type	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 on the power-on state is acquired
Input (8-input)	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 34 0A	When 8-input mode information is acquired

# Specifications

Product Name		D-ILA Projector
Model Name		DLA-VS8000
Display Panel/Size		D-ILA device *1, *2 1.21" 8K D-ILA (7680 x 4320 pixels) x 3
Light Source		Blu-Escent Laser / Phosphor
Screen Size		Refer to P. 17.
Brightness		5000 lm
Projection Distance		Refer to P. 17.
Input Compatibility Signal		Refer to P. 18.
Display Resolution		7680 x 4320 pixels
Input Terminal	DisplayPort Input	DisplayPort, 20-pin (male) x 8
Output Terminal	SYNC OUT	Mini jack, TTL output x 1 *3
Control Terminal	RS-232C Terminal	Single, D-sub 9-pin (male) x 1 *4
	Remote Terminal	Stereo mini jack (remote control) x 1
	LAN Terminal	Single, RJ45 jack, 10BASE-T/100BASE-TX x 1
Service Terminal	SERVICE	Single (USB Type A) x 1 *5
Power Requirements		AC 200 V to 240 V, 50 Hz/60 Hz
Power Consumption		1600 W (during standby mode: 13 W)
Operation Environment		Temperature: 10°C to 35°C; humidity: 20% to 80% (non-condensation); storage temperature: -10°C to 60°C
Installation Height		Below 6,561 ft (2,000 m)
Dimensions (Width x Height x Depth)		756 mm x 365 mm x 987 mm (including feet)
Mass		84 kg

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

\*2 D-ILA devices are manufactured using extremely high-precision technology with a pixel effectiveness of 99.99%. Only 0.01% or less of the pixels are either missing or would remain permanently lit.

\*3 For synchronizing with other equipment.

\*4 For external control.

\*5 Exclusively for firmware update.

---

## Optional Items

### Projection Lens

GL-MS8016SZ

- 1.6:1 to 1.9:1 8K Resolution Zoom Lens

### Replacement filter/sponge (for front left side)

F1K-0173-00 (Filter)

J3K-0134-00 (Sponge)

### Replacement sponge (for top surface)

J3K-0159-00

### Replacement sponge (for front right/right/left side)

J3K-0072-00

LC43030-002A

- 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.

## Indicator Display on the Main Unit

### Operation mode display

Displays using the different colors and solid/blinking light of the indicator on the projector unit.

Indicator			Description
STANDBY/ON	LIGHT	WARNING	
Light On (Red)	-	-	In standby state
Light On (Green)	-	-	When LD block is starting up
Blinking (Red)	-	-	In the Cool-down mode
Blinking (Green)	-	-	When the video image is temporarily hidden (HIDE is on) *
-	Light On (Orange)	-	When the "Auto Intensity" gauge reaches 95 and above. (When the "Auto Intensity" function is "On".) *
Light On (Green)	Light On (Orange)	Light On (Red)	During FW Update <ul style="list-style-type: none"> <li>The speed to sequentially light up the LED increases depending on the progress of the update.</li> </ul>
 Light up in sequence			
Light On (Green)	Light On (Orange)	Light On (Red)	Just Finish FW Update
Light On (Green)	-	Light On (Red)	USB drive detection in progress
-	Light On (Orange)	-	
[STANDBY/ON] and [WARNIG] light up simultaneously and blink alternately with [LIGHT]			

\* The indicator does not light up or blinking when "LED Indication" is set to "Off".

### Estimated timing for laser light source replacement

Displays using the solid/blinking light of the "LIGHT" indicator.

Indicator			Description
STANDBY/ON	LIGHT	WARNING	
-	Light On (Orange)	-	When the lifetime of the LD block has exceeded 20,000 hours (Message display is also available. (P. 56))

## Warning display

You can tell the details of a warning from the (repeated) displays of the “WARNING” and “LIGHT” indicators. The “STANDBY/ON” indicator will light up or appear blinking according to the operation mode of the projector unit. (Please refer to ““Operation mode display”P. 63”.)

The Warning mode is activated once the message is displayed. Projection is interrupted and the cooling fan starts running.

The power cannot be turned on again while cooling is in progress. Check the following after cooling is complete.

If the Warning mode is activated again, wait for the cooling fan to stop, followed by pulling out the power plug from the outlet.

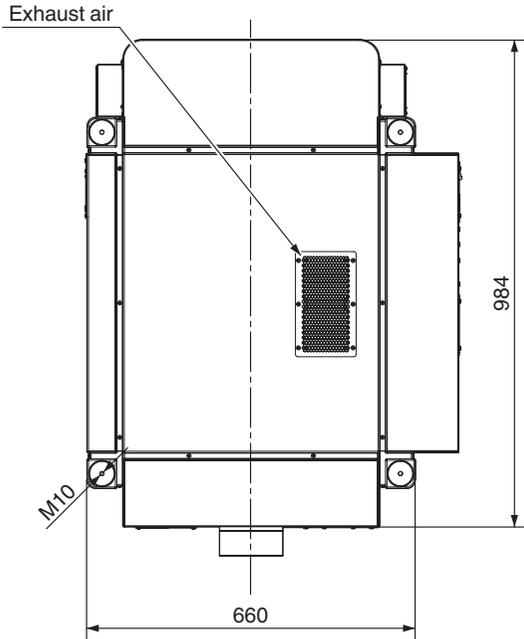
Request for repair at your authorized dealer or a nearby service center.

Indicator Status			Blinking Frequency	Description	Check and Countermeasure
STANDBY/ON	LIGHT	WARNING			
-	-	Blinking (Red)	x1	Cooling fan stopped abnormally	<ul style="list-style-type: none"> <li>• Check that nothing is blocking the air inlets.</li> <li>• Check that the external temperature is normal.</li> </ul> Countermeasure: Leave the unit unoperated until it cools down. After that, turn on the power again.
			x2		
			x3	Internal temperature is abnormally high	
			x4	External temperature is too high	
			x5	The element temperature is high	
-	Blinking (Orange)	Blinking (Red)	x1	DD board occurs error	
			x2	CPU board occurs error	
			x3	Abnormality in the processor board	
			x4	Power board occurs error	
			x5	Other abnormalities	
-	Blinking (Orange)	Light On (Red)	x1	LD Driver occurs error	Request for repair at your authorized dealer or a nearby service center.
			x2		
			x3	Color sensor occurs error	
			x4	When the safety switch is activated	
Blinking (Green)	-	-	x3	The remote control code differs between this unit and the remote control	Set the remote control code for this unit and the remote control correctly. (P. 49)
Blinking (Green)	Blinking (Orange)	Blinking (Red)	x3 (Only once)	No USB flash drive is connected	Connect the USB flash drive properly. (P. 28)
Blinking (Green)	Blinking (Orange)	Blinking (Red)	x1	FW Update error	Request for repair at your authorized dealer or a nearby service center.

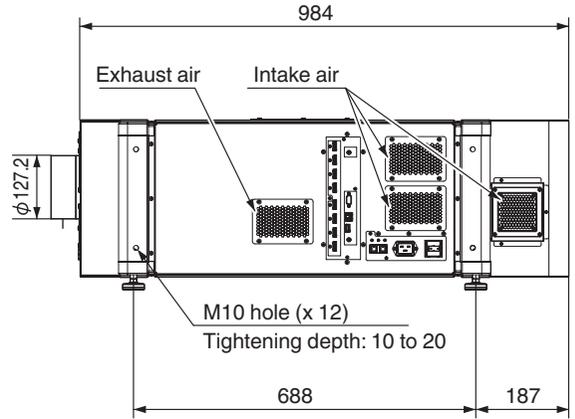
# Dimensional Outline Drawing

(Unit: mm)

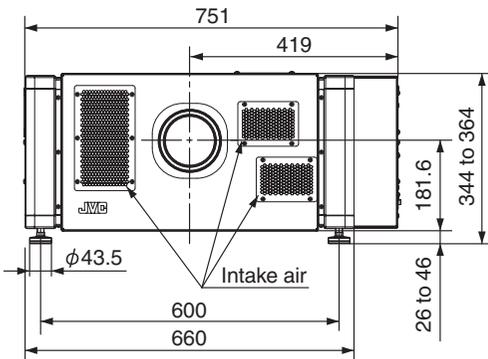
**Top Surface**



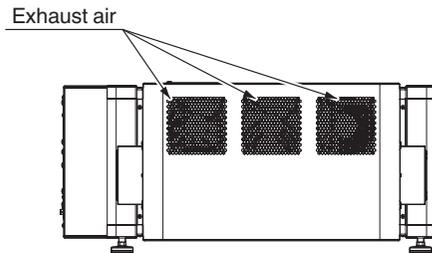
**Side**



**Front**



**Rear Surface**



Others

## CAUTION

- Using screws with dimensions other than those specified in the above diagram may cause the projector to drop or malfunction.

# Index

A	Accessories.....	9	H	H Frequency (Information).....	50
	Adjust (Fine) .....	39		H/V Total (Information).....	50
	Adjust (Image Shift).....	44		Hide Mode.....	49
	Adjust (Pixel Adjust).....	39		High Altitude Mode.....	45
	Adjust (Pixel) .....	39	I	Image Pattern.....	37
	Adjust Area (Pixel Adjust).....	39		Indicator Display.....	63
	Adjust Color (Image Shift).....	43		Information.....	50
	Adjust Color (Pixel Adjust).....	39		Input (Information).....	50
	Adjust Pattern (Image Shift).....	43		Input Level.....	35
	Adjust Pattern (Pixel Adjust).....	39		Input Signal.....	35
	Adjust Pattern Color (Pixel Adjust).....	39		Installation .....	12
	Adjustments and Settings in the Menu.....	29		Installation.....	37
	Auto Intensity.....	31		Installing the Projector and Screen.....	15
B	Back Color.....	46		IP Address .....	47
	Blur Reduction.....	34	L	LAN Terminal.....	11, 24, 57
	Bright Level (Gamma).....	33		Lane Count (Information).....	50
	Brightness.....	34		LD Current.....	31
C	Channel Hide.....	35		LED Indication.....	45
	Cleaning and Replacing the Filter.....	51		Lens.....	62
	Clear Motion Drive .....	34		Lens Control.....	37
	Color.....	34		Light Source Time (Information).....	50
	Color Depth (Information).....	50		Link Rate (Information).....	50
	Color Selection (Gamma).....	33		List of Menu Items.....	29
	Color Space (Information).....	50		Lock.....	38
	Color Space (Input Signal).....	35		Logo.....	46
	Color Temp.....	32	M	MAC Address .....	47
	Connecting the Projector.....	24		Maintenance.....	51
	Connecting Video Signals.....	18		Mask.....	45
	Contrast.....	34		Menu Position.....	46
	Correction Value (Color Temp.).....	32		Motion Enhance.....	34
	Correction Value (Gamma).....	33	N	Names and Functions of Parts.....	10
D	Dark Level (Gamma).....	33		Network.....	47
	Default Gateway.....	47		Network Password .....	48
	DHCP Client .....	47	O	Off Timer.....	47
	Dimensional Outline Drawing.....	65		Offset Blue.....	32
	Display Setup.....	46		Offset Green.....	32
	DisplayPort Terminal.....	24		Offset Red.....	32
E	External Control.....	57		Optional Accessories.....	62
F	Filter Product no.....	62	P	Picture Adjust.....	31
	Firmware Update.....	28		Picture Mode.....	31
	Focus.....	37		Picture Tone (Gamma).....	33
	Function.....	47		Pixel Adjust.....	39
G	Gain Blue.....	32		Possible Input Signals and Projected Image.....	18
	Gain Green.....	32		Power Cord.....	26
	Gain Red.....	32		Projecting Image.....	27
	Gamma.....	33		Projection Lens.....	62

---

R	Remote Code.....	49
	REMOTE Terminal.....	25
	Resolution (Information).....	50
	Routine Servicing.....	53
	RS-232C Terminal.....	11, 25, 57
S	Safety Precautions.....	2
	Screen Size and Projection Distance.....	17
	SERVICE Terminal.....	11
	Sharpness.....	31
	Shift.....	37
	Signal Display.....	46
	Soft Ver. (Information).....	50
	Software Update.....	49
	Specifications.....	61
	Sponge.....	62
	Status (Information).....	50
	Subnet Mask.....	47
	Sync Out.....	47
T	Tint.....	34
	Troubleshooting.....	54
U	User Name Edit.....	31
V	V Frequency (Information).....	50
W	When the Following Messages Appear.....	56
	Whole Adjust (Fine).....	41
	Whole Adjust (Pixel).....	40
Z	Zone Adjust.....	42
	Zoom.....	37

**JVC**