

G60



User Guide

Barco NV

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The environmental conditions as well as the servicing and maintenance regulations specified in this manual must be complied with by the customer.

Federal Communications Commission (FCC Statement)

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 instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be responsible for correcting any interference at his own expense

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

FCC responsible: Barco Inc.
3059 Premiere Parkway Suite 400
30097 Duluth GA, United States
Tel: +1 678 475 8000

Patent protection

Please refer to www.barco.com/about-barco/legal/patents

EMC notices

EN55032/CISPR32 Class A MME (MultiMedia Equipment)

Warning : This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

GB/T 9254 Class A ITE (Information Technology Equipment)

Warning : This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

BSMI Taiwan Class A statement:

警告使用者：此為甲類資訊技術設備，於居住環境中使用，可能會造成射頻擾動，在此情況下，使用者會被要求採取某些適當的對策。

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Safety

1

About this document

Read this document attentively. It contains important information to prevent personal injury while installing and using the G60 projector. Furthermore, it includes several cautions to prevent damage to the G60 projector. Ensure that you understand and follow all safety guidelines, safety instructions and warnings mentioned in this chapter before installing the G60 projector.

Clarification of the term “G60” used in this document

When referring in this document to the term “G60” means that the content is applicable for following Barco products:

- G60-W7, G60-W8, G60-W10

Model certification name

- G60



Barco provides a guarantee relating to perfect manufacturing as part of the legally stipulated terms of guarantee. Observing the specification mentioned in this chapter is critical for projector performance. Neglecting this can result in loss of warranty.

Overview

- General considerations
- Important safety instructions
- Product safety labels

1.1 General considerations

General safety instructions

- Before operating this equipment please read this manual thoroughly and retain it for future reference.
- Installation and preliminary adjustments should be performed by qualified Barco personnel or by authorized Barco service dealers.
- All warnings on the projector and in the documentation manuals should be adhered to.
- All instructions for operating and use of this equipment must be followed precisely.
- All local installation codes should be adhered to.

Notice on safety

This equipment is built in accordance with the requirements of the international safety standards IEC60950-1, EN60950-1, UL60950-1 and CAN/CSA C22.2 No.60950-1, which are the safety standards of information technology equipment including electrical business equipment. These safety standards impose important requirements on the use of safety critical components, materials and insulation, in order to protect the user or operator against risk of electric shock and energy hazard and having access to live parts. Safety standards also impose limits to the internal and external temperature rises, radiation levels, mechanical stability and strength, enclosure construction and protection against the risk of fire. Simulated single fault condition testing ensures the safety of the equipment to the user even when the equipment's normal operation fails.

Laser safety precautions for G60-W7 series

This product is classified as Class 1 Laser Product-Risk Group 2 of IEC 60825-1 : 2014 and Class 3R Laser product of IEC 60825-1:2007, complying with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007.

To ensure safety operation, read all laser safety precautions before installing and operating the projector.

- Class 3R Laser product. Do NOT deliberately look into or stare into the beam, which can cause injury to the retina in the back of the eye.
- When turning on the projector, make sure no one within projection range is looking at the lens.
- Keep any reflective objects out of the light path of the projector. Glass and shiny surfaces can reflect the laser beam from the lens as the light path is extensive, and the reflective beam can cause unpredictable incident such as fire hazards or eye injuries.
- Any operation or adjustment not specifically instructed by the user's guide creates the risk of hazardous laser radiation exposure.
- Do not open or disassemble the projector as this may cause damage by the exposure of laser radiation.
- Failure to follow the control, adjustment or operation procedures may cause damage by the exposure of laser radiation.

Laser safety precautions for G60-W8 series

This product is classified as CLASS 1 LASER PRODUCT - RISK GROUP 2 of IEC 60825-1 : 2014 and also complies with 21 CFR 1040.10 and 1040.11 as a Risk Group 2, LIP (Laser Illuminated Projector) as defined in IEC 62471:2006 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

According to IEC 60825-1:2014 and IEC 62471:2006, this projector may become CLASS 1 LASER PRODUCT - RISK GROUP 3 product when installed with G LENS (2.90 - 5.50 : 1) lens (throw ratio 2.90-5.50).

To ensure safety operation, read all laser safety precautions before installing and operating the projector.

- This projector uses extremely high brightness laser. Never attempt to look directly into the lens or at the laser beam. The bright light may result in permanent eye damage.
- Possibly hazardous optical radiation emitted from this product.
- This projector has a built-in Class 4 laser module. Never attempt to disassemble or modify the laser module.
- Any operation or adjustment not specifically instructed in the User manual creates the risk of hazardous laser radiation exposure.
- Do not stare into beam when the projector is on. When turning on the projector, make sure no one within projection range is looking into the lens.
- Follow the control, adjustment, or operation procedures to avoid damage or injury from exposure of laser radiation.

- The instructions for the assembly, operation, and maintenance include clear warnings concerning precautions to avoid possible exposure to hazardous laser radiation.

Laser safety precautions for G60-W10 series

This product is classified as Class 1 Laser Product-Risk Group 2 (RG2) of IEC 60825-1: 2014 and Class 3R Laser product of IEC 60825-1:2007, complying with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007.

When installed with G LENS (2.90 - 5.50 : 1) lens (throw ratio 2.90-5.50), this projector may become Class 1 Laser Product-Risk Group 3 (RG3) according to IEC 60825-1:2014, IEC 62471:2006, IEC 62471-5: 2015, and also complying with Immediately in Effect Guidance Document: Classification and Requirements for Laser Illuminated Projectors (LIPs) Guidance for Industry and Food and Drug Administration Staff Document issued on February 18, 2015.

To ensure safety operation, read all laser safety precautions before installing and operating the projector.

- This projector uses extremely high brightness laser. Do not stare into the direct laser beam, as the extremely high brightness may cause permanent eye damage. (Risk Group 2 of IEC 62471-5:2015).
- No direct exposure to the beam shall be permitted. (Risk Group 2/Risk Group 3 of IEC 62471-5:2015).
- This product is not for household use.
- Possibly hazardous optical radiation emitted from this product.
- This projector has a built-in Class 4 laser module. Never attempt to disassemble or modify the laser module.
- Any operation or adjustment not specifically instructed in the User manual creates the risk of hazardous laser radiation exposure.
- Do not stare into beam when the projector is on. When turning on the projector, make sure no one within projection range is looking into the lens.
- Follow the control, adjustment, or operation procedures to avoid damage or injury from exposure of laser radiation.
- The instructions for the assembly, operation, and maintenance include clear warnings concerning precautions to avoid possible exposure to hazardous laser radiation.

Light Intensity Hazard Distance for G60-W8 series

This projector may become CLASS 1 LASER PRODUCT - RISK GROUP 3 when installed with G LENS (2.90 - 5.50 : 1) lens (throw ratio 2.90-5.50). Permanent eye injury is possible when exposed to the high intensity laser beam within the hazard distance.

Projection Lens	Throw Ratio	Classification and Requirements for Laser Illuminated Projectors (LIPs)	
G LENS (2.90 - 5.50 : 1)	2.90-5.50	IEC 60825-1:2014	IEC 62471:2006
		CLASS 1	RISK GROUP 3 HD: 2.15 meters

Follow the precautions to avoid light intensity hazard.

- NEVER look into the lens! High intensity laser beam.
- Permanent eye injury is possible when exposed to the high intensity laser light within the hazard distance.
- Do not place any reflective objects in the light path of the projector.

Light Intensity Hazard Distance for G60-W10 series

This projector may become Class 1 Laser Product-Risk Group 3 (RG3) when installed with G LENS (2.90 - 5.50 : 1) lens (throw ratio 2.90-5.50). Permanent eye injury is possible when exposed to the high intensity laser beam within the hazard distance (HD).

Projection Lens	Throw Ratio	Classification and Requirements for Laser Illuminated Projectors (LIPs)		
G LENS (2.90 - 5.50 : 1)	2.90-5.50	IEC 60825-1:2014	IEC 62471:2006	IEC 62471-5: 2015

Projection Lens	Throw Ratio	Classification and Requirements for Laser Illuminated Projectors (LIPs)		
		CLASS 1	RISK GROUP 3 HD: 8.0 meters	RISK GROUP 3 HD: 3.0 meters

Follow the precautions to avoid light intensity hazard.

- NEVER look into the lens! High intensity laser beam.
- Permanent eye injury is possible when exposed to the high intensity laser light within the hazard distance.
- Operators shall control access to the beam within the hazard distance or install the product at a height that will prevent eye exposure within the hazard distance.
- Do not place any reflective objects in the light path of the projector.

User definition

Throughout this manual, the term SERVICE PERSONNEL refers to Barco authorized persons having appropriate technical training and experience necessary to be knowledgeable of potential hazards to which they are exposed (including, but not limited to HIGH VOLTAGE ELECTRIC and ELECTRONIC CIRCUITRY and HIGH BRIGHTNESS PROJECTORS) in performing a task, and of measures to minimize the potential risk to themselves or other persons. Only Barco authorized SERVICE PERSONNEL, knowledgeable of such risks, are allowed to perform service functions inside the product enclosure. The term USER and OPERATOR refers to any person other than SERVICE PERSONNEL. When installing an interchangeable lens with a throw ratio that make the projector become RG3, refer to chapter "Risk Group 3 Safety", page 9. Such combination of projector and lens are intended for professional use only, and are not intended for consumer use.

FOR PROFESSIONAL USE ONLY means installation can only be carried out by Barco AUTHORIZED PERSONNEL familiar with potential hazards associated with high intensity light beams.

1.2 Important safety instructions

To prevent the risk of electrical shock

- This product should be operated from a mono phase AC power source.
- This apparatus must be grounded (earthed) via the supplied 3 conductor AC power cable. If none of the supplied power cables are the correct one, consult your dealer. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.
- Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- Use only the power cord supplied with your device. While appearing to be similar, other power cords have not been safety tested at the factory and may not be used to power the device. For a replacement power cord, contact your dealer.
- Do not operate the projector with a damaged cord. Replace the cord.
- Do not operate the projector if the projector has been dropped or damaged until it has been examined and approved for operation by a qualified service technician. Position the cord so that it will not be tripped over, pulled, or contact hot surfaces.
- If an extension cord is necessary, a cord with a current rating at least equal to that of the projector should be used. A cord rated for less amperage than the projector may overheat.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electrical shock.
- Do not expose this projector to rain or moisture.
- Do not immerse or expose this projector in water or other liquids.
- Do not spill liquid of any kind on this projector.
- Should any liquid or solid object fall into the cabinet, unplug the set and have it checked by qualified service personnel before resuming operations.
- Do not disassemble this projector, always take it to an authorized trained service person when service or repair work is required.
- Do not use an accessory attachment which is not recommended by the manufacturer.

- Lightning - For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the device due to lightning and AC power-line surges.

To prevent personal injury

- To prevent injury and physical damage, always read this manual and all labels on the system before connecting to the wall outlet or adjusting the projector.
- To prevent injury, take note of the weight of the projector.
- To prevent injury, ensure that the lens and all covers are correctly installed. See installation procedures.
- Warning: high intensity light beam. NEVER look into the lens ! High luminance could result in damage to the eye.
- Warning: extremely high brightness laser: This projector uses extremely high brightness laser. Never attempt to look directly into the lens or at the laser.
- Before attempting to remove any of the projector's covers, you must turn off the projector and disconnect from the wall outlet.
- When required to switch off the projector, to access parts inside, always disconnect the power cord from the power net.
- The power input at the projector side is considered as the disconnect device. When required to switch off the projector, to access parts inside, always disconnect the power cord at the projector side. In case the power input at the projector side is not accessible (e.g. ceiling mount), the socket outlet supplying the projector shall be installed nearby the projector and be easily accessible, or a readily accessible general disconnect device shall be incorporated in the fixed wiring.
- Do not place this equipment on an unstable cart, stand, or table. The product may fall, causing serious damage to it and possible injury to the user.
- It is hazardous to operate without lens or shield. Lenses, shields or ultra violet screens shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired. For example by cracks or deep scratches.
- Exposure to UV radiation: Some medications are known to make individuals extra sensitive to UV radiation. The American Conference of Governmental Industrial Hygienists (ACGIH) recommends occupational UV exposure for an-8 hour day to be less than 0,1 micro-watts per square centimeters of effective UV radiation. An evaluation of the workplace is advised to assure employees are not exposed to cumulative radiation levels exceeding these government guidelines. The exposer of this UV radiation is allowed for only 1 hour per day for maintenance and service persons.

To prevent fire hazard

- Do not place flammable or combustible materials near the projector!
- Barco large screen projection products are designed and manufactured to meet the most stringent safety regulations. This projector radiates heat on its external surfaces and from ventilation ducts during normal operation, which is both normal and safe. Exposing flammable or combustible materials into close proximity of this projector could result in the spontaneous ignition of that material, resulting in a fire. For this reason, it is absolutely necessary to leave an "exclusion zone" around all external surfaces of the projector whereby no flammable or combustible materials are present. The exclusion zone must be not less than 100 cm (39.4") for all DLP projectors. The exclusion zone on the lens side must be at least 5 m. Do not cover the projector or the lens with any material while the projector is in operation. Keep flammable and combustible materials away from the projector at all times. Mount the projector in a well-ventilated area away from sources of ignition and out of direct sun light. Never expose the projector to rain or moisture. In the event of fire, use sand, CO₂ or dry powder fire extinguishers. Never use water on an electrical fire. Always have service performed on this projector by authorized Barco service personnel. Always insist on genuine Barco replacement parts. Never use non- Barco replacement parts as they may degrade the safety of this projector.
- Slots and openings in this equipment are provided for ventilation. To ensure reliable operation of the projector and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the projector too close to walls, or other similar surface. This projector should never be placed near or over a radiator or heat register. This projector should not be placed in a built-in installation or enclosure unless proper ventilation is provided.
- Projection rooms must be well ventilated or cooled in order to avoid build up of heat.
- Let the projector cool down completely before storing. Remove cord from the projector when storing.

To prevent projector damage

- Always remove lens cap before switching on the projector. If the lens cap is not removed, it may melt due to the high energy light emitted through the lens. Melting the lens cap may permanently damage the surface of the projection lens.
- The air filters of the projector must be cleaned or replaced on a regular basis. Cleaning the booth area would be monthly minimum. Neglecting this could result in disrupting the air flow inside the projector, causing overheating. Overheating may lead to the projector shutting down during operation.
- The projector must always be installed in a manner which ensures free flow of air into its air inlets and unimpeded evacuation of the hot air from its cooling system.
- If more than one projector is installed in a common projection booth, the exhaust air flow requirements are valid for EACH individual projector system. Note that inadequate air extraction or cooling will result in decreased life expectancy of the projector as a whole as well as causing premature failure of the lasers.
- In order to ensure that correct airflow is maintained, and that the projector complies with Electromagnetic Compatibility (EMC) requirements, it should always be operated with all of its covers in place.
- Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. The device should not be placed in a built-in installation or enclosure unless proper ventilation is provided.
- Ensure that nothing can be spilled on, or dropped inside the projector. If this does happen, switch off and unplug the mains supply immediately. Do not operate the projector again until it has been checked by qualified service personnel.
- Do not block the projector cooling fans or free air movement around the projector.
- Do not use this equipment near water.
- Special care for Laser Beams: Special care should be used when DLP projectors are used in the same room as high power laser equipment. Direct or indirect hitting of a laser beam on to the lens can severely damage the Digital Mirror Devices™ in which case there is a loss of warranty.
- Never place the projector in direct sun light. Sun light on the lens can severely damage the Digital Mirror Devices™ in which case there is a loss of warranty.
- Save the original shipping carton and packing material. They will come in handy if you ever have to ship your equipment. For maximum protection, repack your set as it was originally packed at the factory.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Never use strong solvents, such as thinner or benzene, or abrasive cleaners, since these will damage the cabinet. Stubborn stains may be removed with a cloth lightly dampened with mild detergent solution.
- To ensure the highest optical performance and resolution, the projection lenses are specially treated with an anti-reflective coating, therefore, avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.
- Rated operating ambient temperature: $t_a = 5\text{ }^\circ\text{C}$ (41 °F) to $40\text{ }^\circ\text{C}$ (104 °F).
- Rated operating humidity: 10% RH to 85% RH (non-condensing). yy This projector can be set to any angle within 360° range.
- Allowing proper space around the projector is critical for proper air circulation and cooling of the unit. The dimensions shown here indicate the minimum space required.

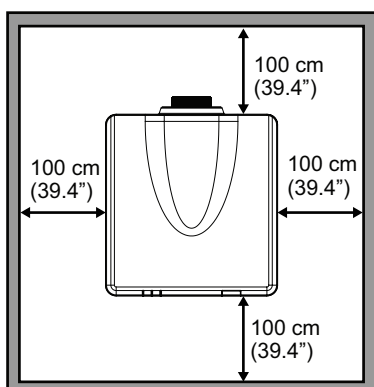
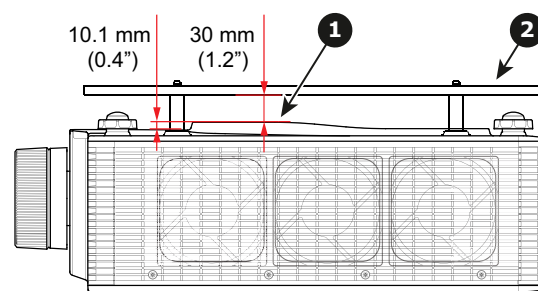


Image 1-1



- 1 Bottom intake vents.
- 2 Ceiling mount plate.

- For ceiling mounted installations, make sure to leave 30 mm (1.2") between the ceiling mount and the bottom intake vents of the projector.

To prevent battery explosion

- Danger of explosion if battery is incorrectly installed.
- Replace only with the same or equivalent type recommended by the manufacturer.
- For disposal of used batteries, always consult federal, state, local and provincial hazardous waste disposal rules and regulations to ensure proper disposal.

On servicing

- Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage potentials and risk of electric shock.
- Refer all servicing to qualified service personnel.
- Attempts to alter the factory-set internal controls or to change other control settings not specially discussed in this manual can lead to permanent damage to the projector and cancellation of the warranty.
- Remove all power from the projector and refer servicing to qualified service technicians under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the equipment.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of the other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - If the product has been dropped or the cabinet has been damaged.
 - If the product exhibits a distinct change in performance, indicating a need for service.
- Replacement parts: When replacement parts are required, be sure the service technician has used original Barco replacement parts or authorized replacement parts which have the same characteristics as the Barco original part. Unauthorized substitutions may result in degraded performance and reliability, fire, electric shock or other hazards. Unauthorized substitutions may void warranty.
- Safety check: Upon completion of any service or repairs to this projector, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Safety Data Sheets for Hazardous Chemicals

For safe handling information on chemical products, consult the Safety Data Sheet (SDS). SDSs are available upon request via safetydatasheets@barco.com.

1.3 Product safety labels

Light beam related safety labels for G60-W7 series

Label image



Label description

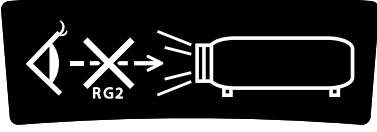
Risk Group 2 of IEC60825-1:2014 and Class 3R Laser product of IEC 60825-1:2007. Do not look into the laser light. The extremely high brightness may cause permanent eye damage.



This product is classified as Class 1 Laser Product-Risk Group 2 of IEC 60825-1 : 2014 and Class 3R Laser product of IEC 60825-1:2007, complying with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007.

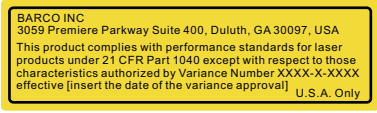
Light beam related safety labels for G60-W8 series

Label image

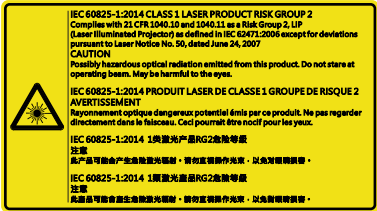


Label description

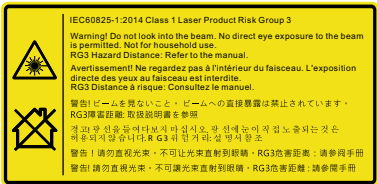
Risk Group 2, IEC60825-1:2014. Do not look into the laser light. The extremely high brightness may cause permanent eye damage.



FDA laser variance (US projectors only)



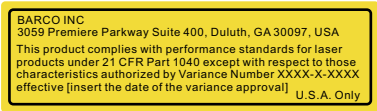
This product is classified as Class 1 Laser Product-Risk Group 2 of IEC 60825-1:2014 and also complies with 21 CFR 1040.10 and 1040.11 as a Risk Group 2, LIP (Laser Illuminated Projector) as defined in IEC 62471:2006 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.



This projector may become Class 1 Laser Product-Risk Group 3 of IEC 60825-1:2014 when installed with G lens - Ultra Long Zoom (throw ratio 2.90 - 5.50 : 1).

Light beam related safety labels for G60-W10 series

Label image

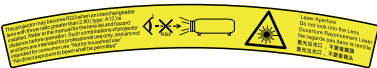


Label description

FDA laser variance (US projectors only)



This product is classified as Class 1 Laser Product-Risk Group 2 of IEC/EN 60825-1:2014 and Class 3R Laser product of IEC/EN 60825-1:2007, complying with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007.



This projector may become Risk Group 3 product when an interchangeable lens with throw ratio greater than 2.9 (G lens - Ultra Long Zoom) is installed. Refer to the manual for the lens list and hazard distance before operation. Such combinations of projector and lens are intended for professional use only, and are not intended for consumer use.

Not for household use.

No direct exposure to beam shall be permitted, which can cause injury to the retina in the back of the eye.

Product overview

2

Overview

- Main unit
- Input/Output (I/O) Panel
- Control panel
- Remote Control Unit (RCU)

2.1 Main unit

Component location

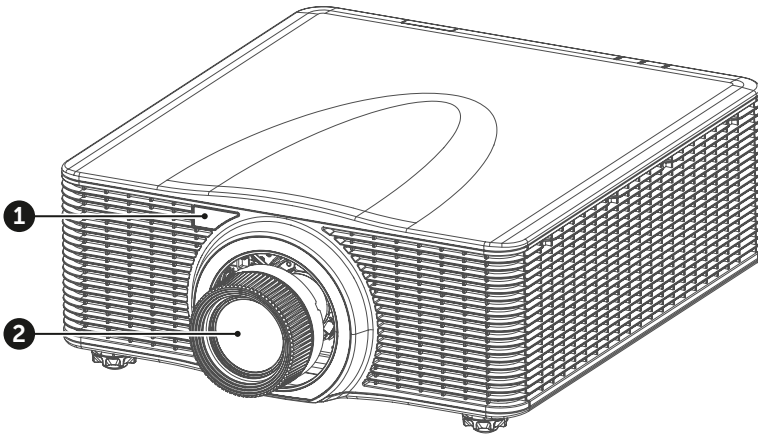


Image 2-1

- 1 Remote receiver (Front)
- 2 Projection lens

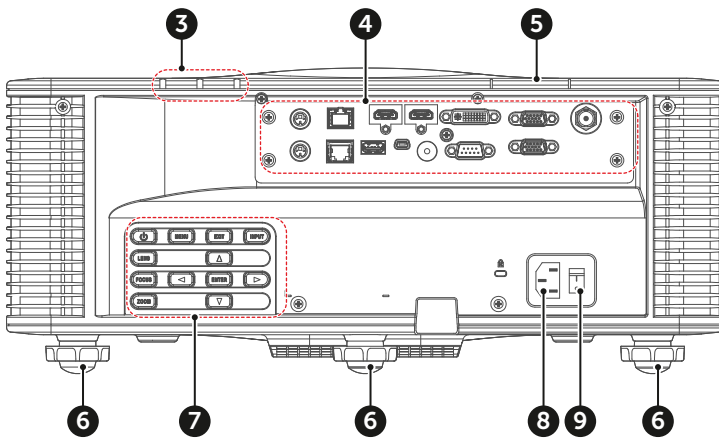


Image 2-2

- | | |
|----------------------------|--------------------------------------|
| 3 LED Status Indicator | 7 Control panel |
| 4 Input/Output (I/O) Panel | 8 Power socket (AC100-240V, 50-60Hz) |
| 5 Remote receiver (Top) | 9 Power switch |
| 6 Adjustable feet | |

Airflow

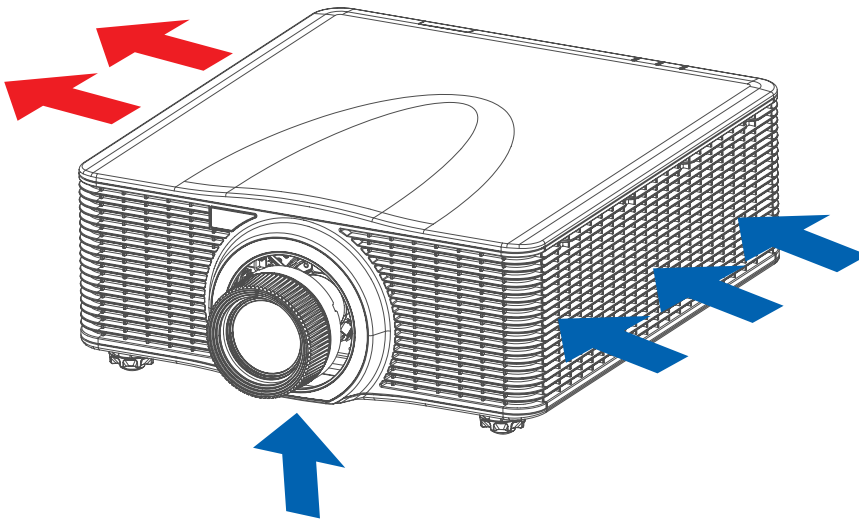


Image 2-3

2.2 Input/Output (I/O) Panel

Input and output ports location

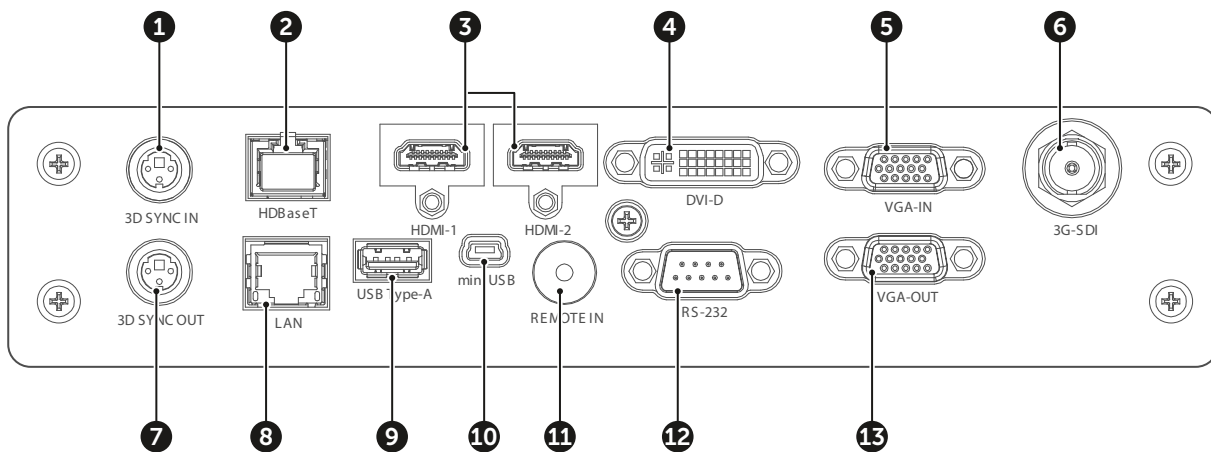


Image 2-4

- | | |
|--|--|
| <ul style="list-style-type: none"> 1 3D SYNC IN 2 HDBaseT connector 3 HDMI connector 4 DVI-D input connector 5 VGA-IN connector 6 3D-SGI connector 7 3D SYNC OUT | <ul style="list-style-type: none"> 8 Networking connector RJ45 9 USB Type-A (Power out 5V, 0.5A) 10 Mini USB (Service) 11 Wired remote connector 12 RS232 connector 13 VGA-OUT connector |
|--|--|

2.3 Control panel

Button location

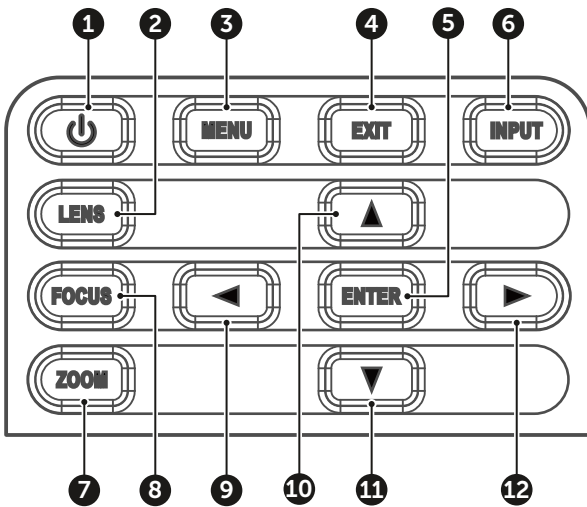


Image 2-5

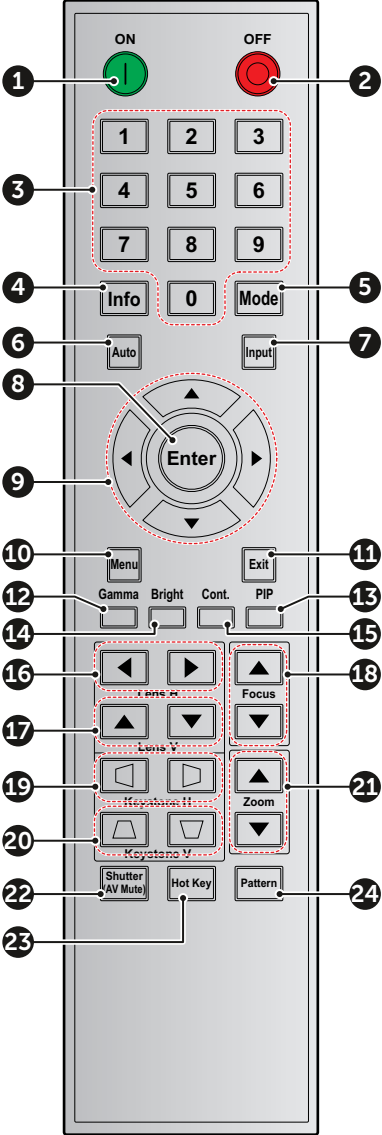
- | | |
|----------------|-----------------|
| 1 POWER | 7 ZOOM |
| 2 LENS | 8 FOCUS |
| 3 MENU | 9 LEFT |
| 4 EXIT | 10 UP |
| 5 ENTER | 11 DOWN |
| 6 INPUT | 12 RIGHT |

Button function

Button	Function
POWER	Turn the projector on or off.
LENS	Adjust lens position.
MENU	Show the main menu on screen.
EXIT	Return to previous menu or exit menu if at top level.
ENTER	Confirm the settings.
INPUT	Select an input source.
ZOOM	Adjust the image size.
FOCUS	Adjust the image focus.
LEFT	Navigate left through the menu.
UP	Navigate up through the menu.
DOWN	Navigate down through the menu.
RIGHT	Navigate right through the menu.

2.4 Remote Control Unit (RCU)

Button identification

Button location	No.	Button	Function
	1	ON	Turn on the projector.
	2	OFF	Turn off the projector.
	3	Number	Input numbers (0-9).
	4	Info	Displays information on the source image.
	5	Mode	Select a preset picture mode.
	6	Auto	Automatically synchronize the projector to an input source.
	7	Input	Select an input source manually.
	8	Enter	Confirm an selection.
	9	Arrow keys	Use arrow keys to navigate through the menu or select the appropriate settings.
	10	Menu	Show the main menu on the screen.
	11	Exit	Back to previous Menu.
	12	Gamma	Set the gamma of the image.
	13	PIP	Set up the picture in picture (PIP) mode.
	14	Brightness	Set the brightness of the image.
	15	Contrast	Set the contrast of the image.
	16	Lens H	Adjust the image position horizontally.
	17	Lens V	Adjust the image position vertically.
	18	Focus	Adjust the image focus.
	19	Keystone H	Adjust a horizontally keystone image.
	20	Keystone V	Adjust a vertically keystone image.
	21	Zoom	Adjust the image size.
	22	Shutter	Momentarily turn off/on the screen (AV Mute).
	23	Hot Key	Select a specific function set as the hot key.
	24	Pattern	Display test patterns.

Powering On/Off the projector

3



This chapter assumes that the power cord and (all) signal cables are securely connected. For detailed instructions see installation manual.

Overview

- Powering On the projector
- Powering Off the Projector

3.1 Powering On the projector

How to power On the projector

1. Power on the AC switch (1) and wait until the power button on the control panel is solid red.

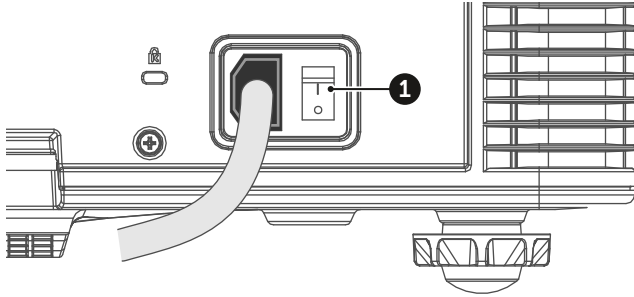


Image 3-1

2. Turn on the projector by pressing the POWER button (2) on the control panel or the ON key (3) on the remote control.



Image 3-2

The status LED (4) will flash orange. The startup screen will display and the status LED will turn to solid green.

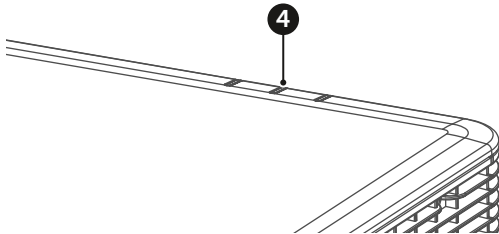


Image 3-3

3. Turn on your source. The projector detects the source you selected and displays the image.



Note: If you connect multiple sources at the same time, press “Input” key on the control panel or on the remote control to switch inputs.



WARNING: Do not look directly into the lens when the projector is turned on. The strong light might cause permanent eye damage.

3.2 Powering Off the Projector

How to power Off the projector

1. Press the POWER button (2) on the control panel or the OFF key (5) on the remote control, a message displays on the screen.

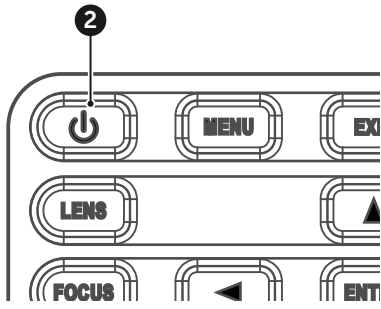
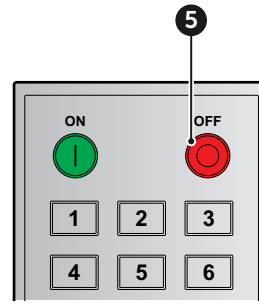


Image 3-4



2. Press the POWER button or OFF key again to confirm, otherwise the message disappears after 5 seconds and the projector remains on.



CAUTION: Don't turn on the projector immediately after entering Standby mode.

User controls

4

Overview

- On-Screen Display Menus
- Picture Menu
- Screen Menu
- Settings Menu
- Light Source Menu
- Options Menu
- 3D Menu
- Communications Menu

4.1 On-Screen Display Menus

About OSD

The projector has On-Screen Display (OSD) menus that allow you to make image adjustments and change a variety of settings.

Follow the steps below to use the OSD menu to configure the projector settings.

How to operate

1. To open the OSD menu, press **Menu** key on the control panel or remote control.
2. Use arrow keys to navigate through the menus and select appropriate settings.
3. Press **Enter** to enter the submenu or confirm a setting.
4. Press **Exit** to return to the previous menu or exit OSD menu if at top level.

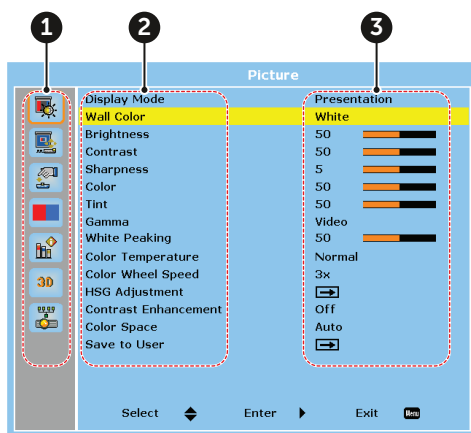


Image 4-1

- 1 Main menu
- 2 Sub-menus
- 3 Settings

4.2 Picture Menu

Overview

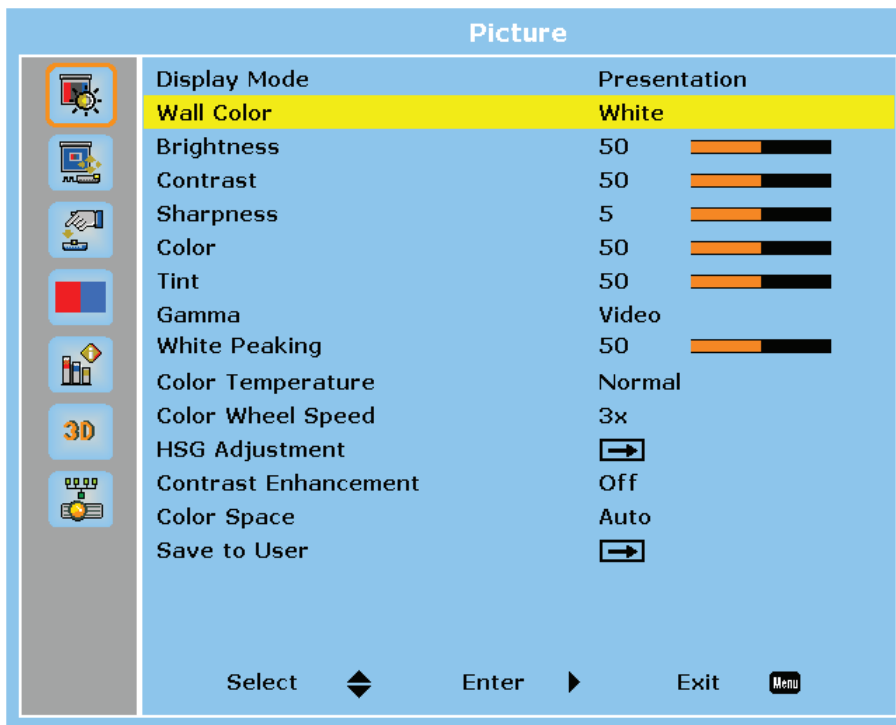


Image 4-2

Display Mode

Set the display mode to optimize the image performances for different display content.

- **Bright** : Best for high brightness applications.
- **Presentation** : Best for presentations when connected to a PC.
- **Movie** : Best for playing videos.
- **sRGB** : Best for high definition televisions.
- **Blending** : Best for multiple projector applications.
- **DICOM SIM** : Best for projecting monochrome medical images, such as X-ray diagram.
- **User** : The mode for the image settings saved by the user.

Wall Color

Set the wall color of the projector to achieve best color performance for a specific wall. The available options are White and Gray 130.

Brightness

Adjust the luminous brightness of the projected image.

Contrast

Adjust the contrast of the projected image.

Sharpness

Adjust the clarity of detail in the projected image.

Color

Transform a video image from black and white to fully saturated color.

Tint

Adjust the color balance of red and green in video images.

Gamma

Select appropriate gamma value to optimize the image conformance to different applications.

- **Video** : Best for video or TV sources.
- **Film** : Best for home theater applications.
- **Bright** : Best for emphasizing brightness.
- **CRT** : Best for CRT monitors.
- **DICOM** : Best for medical images, such as X-ray diagram.

White Peaking

Adjust the brightness of whites in the projected image, with 0 being the minimal level and 100 being the maximum.

Color Temperature

Adjust the color temperature of the projected image. The available options are Warm, Normal, and Cool.

Color Wheel Speed

The speed of the phosphor color wheel determines the image performance and the service life of the projector.

- **2x** : Extends the projector's service life and reduces the noise level during operation.
- **3x** : Increases the speed to eliminate the color artifacts for best image quality.

HSG Adjustment

HSG adjustment uses hue, saturation, and gain (HSG) to adjust the image's primary colors—red, green, blue, cyan, magenta, and yellow. It helps calibrate the projected image to achieve better color conformance to the surroundings, in consideration of factors such as screen size, ambient lighting, and multiple projector applications.

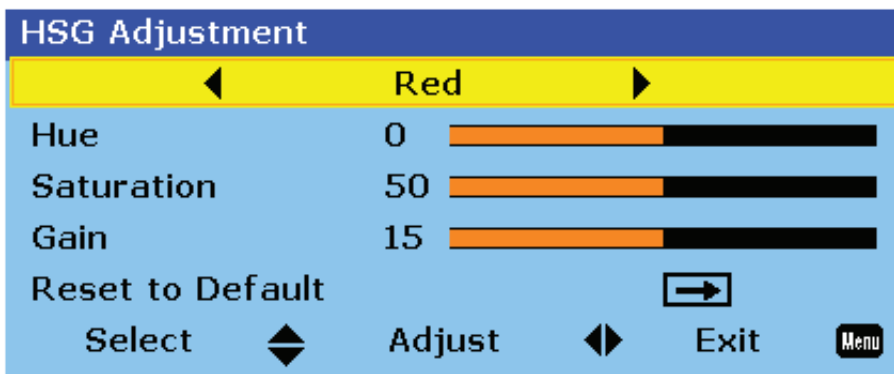


Image 4-3

- **Primary colors** : Select the primary color for further adjustment.
- **Hue** : Adjust the hue of the selected color. The value reflects the number of degrees of rotation around the chromaticity diagram from the original color. Increasing value indicates clockwise rotation, and decreasing value, counterclockwise rotation.

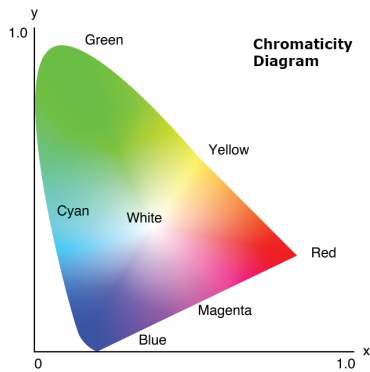


Image 4-4

- **Saturation** : Adjust the saturation of the selected color. The value indicates the color shifts from or towards the white in the center of the chromaticity diagram.
- **Gain** : Adjust the gain of the selected color. Increase the value to brighten the image (add white to a color) or decrease the value to darken the image (add black to a color).
- **Reset to Default** : Reset the color settings to factory default values.

Contrast Enhancement

Optimize the contrast ratio for different input sources.

- **Off** : Disable the contrast enhancement.
- **Dynamic Black** : Automatically adjust the contrast ratio for video sources.
- **Extreme Black** : Automatically increase the contrast ratio for blank (black) images.

Color Space

Select a color space that has been specifically tuned for the input signal. Use only for analog signals and certain digital sources. The available options are Auto, RGB (0-255), RGB (16-235), and YUV.

Save to User

Save the user settings.

4.3 Screen Menu

Overview

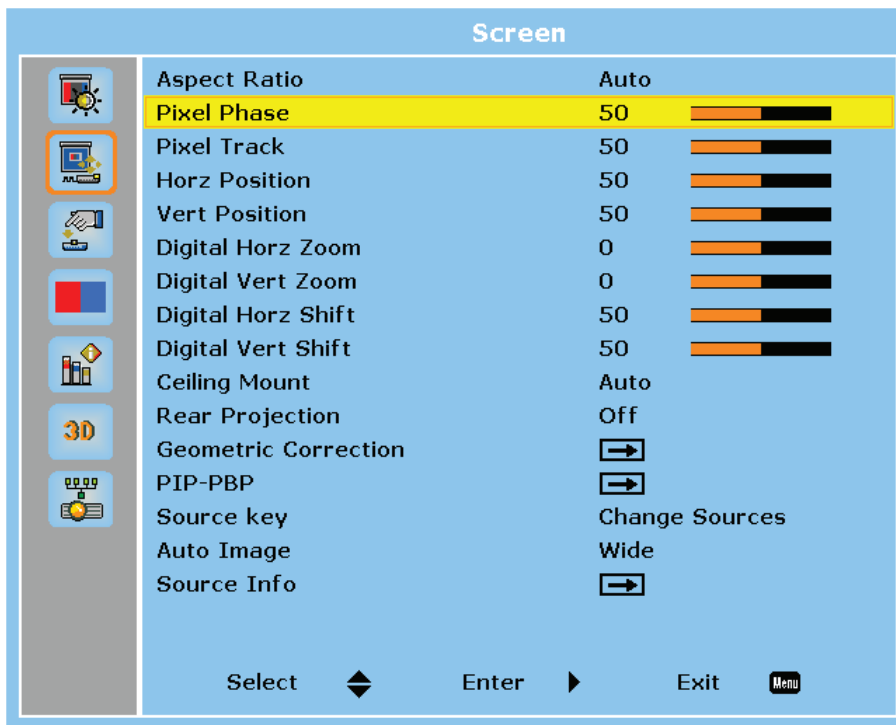


Image 4-5

Aspect Ratio

Set the aspect ratio of the projected image. The available options are Auto, 4:3, 16:9, 16:10. Select Auto to display the detected image size.

Pixel Phase

Adjust the phase of the pixel-sampling clock relative to the input signal. It help to improve the quality of the image shows shimmer or noise after being optimized with pixel tracking. This function applies to analog RGB signals only.

Pixel Track

Flickering or vertical stripes across the image indicates poor pixel tracking. Adjust the pixel track to optimize the image quality across the screen. This function applies to analog RGB signals only.

Horz Position

Adjust the horizontal position of the display area within the lens offset range.

Vert Position

Adjust the vertical position of the display area within the lens offset range.

Digital Horz Zoom

Change the horizontal size of the projected area. After re-sizing the image with this function, use Digital Horz Shift and Digital Vert Shift to move the image.

Digital Vert Zoom

Change the vertical size of the projected area. After re-sizing the image with this function, use Digital Horz Shift and Digital Vert Shift to move the image.

Digital Horz Shift

Adjust the horizontal position of the display area if it is resized through Digital Horz Zoom setting.

Digital Vert Shift

Adjust the vertical position of the display area if it is resized through Digital Vert Zoom setting.

Ceiling Mount

Flips the image upside down to project from a ceiling mount.

Rear Projection

Reverse the image to project behind a translucent screen.

Geometric Correction

Configure the geometric settings to reshape the image for different projection surface.

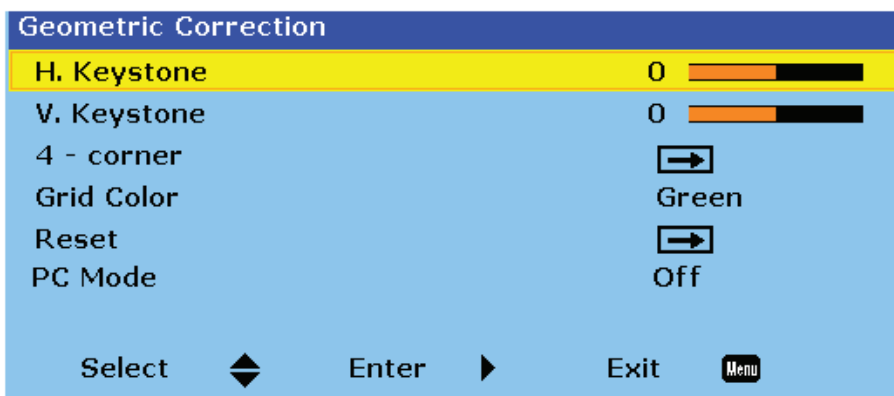


Image 4-6

- **H. Keystone** : Adjust the left and right side of the projected image to make it an even rectangle. It is used for the images with unequal left and right sides.

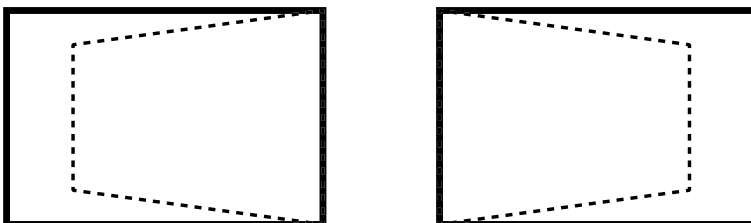


Image 4-7

- **V. Keystone** : Adjust the top and bottom side of the projected image to make it an even rectangle. It is used for the images with unequal top and bottom sides.

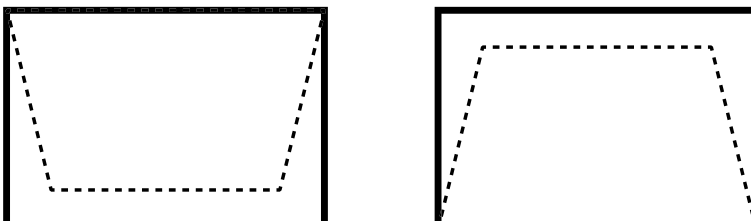


Image 4-8

- **4 - corner** : Position the 4 corners of the image to have it fit a specific projection surface.

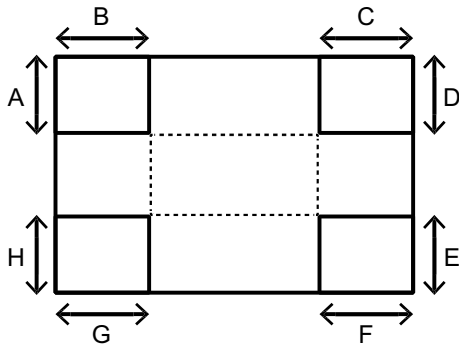


Image 4-9

- **Grid Color** : Set the grid color for 4-corner adjustment. The available options are purple or green.
- **Reset** : Reset geometric settings to factory default values.
- **PC Mode** : Enable PC mode to use PC software for more complicated geometric configuration.

PIP/PBP

PIP/PBP (picture in picture/picture by picture) mode allows displaying two images from two independent sources. For more information on the PIP/PBP compatibility, See “Compatibility modes”, page 49.

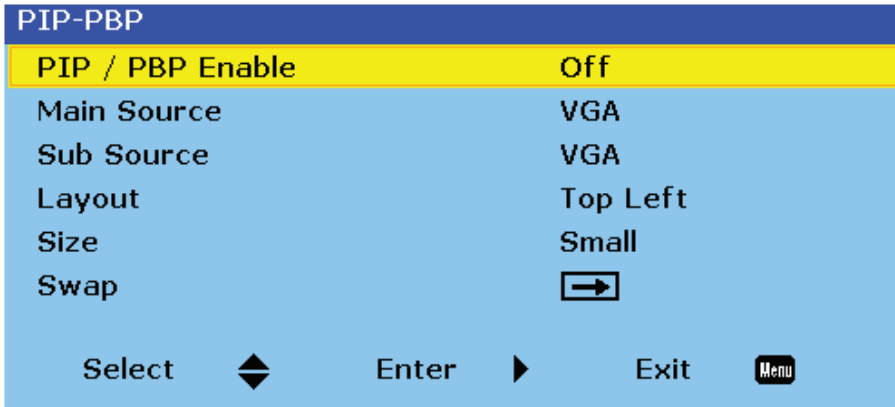






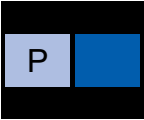



Image 4-10

- **PIP/PBP Enable** : Select the appropriate PIP/PBP mode.
 - **Off** : Disable PIP/PBP mode.
 - **PBP** : Display two input sources simultaneously on the left and right sides of the screen.
 - **PIP** : Display one input source on the main screen and the other input source in an inset window.
- **Main Source** : Select an input source for the main image.
- **Sub Source** : Select an input source for the second image.
- **Layout** : Adjust the layout of two images. In the layout chart below, the “P” indicates the main image:

PIP Layout	PIP Size		
	Small	Medium	Large
PIP, Bottom Right			
PIP, Bottom Left			

PIP Layout	PIP Size		
	Small	Medium	Large
PIP, Top Left			
PIP, Top Right			
PBP Layout			
PBP, Main Left		PBP, Main Right	
			

- **Size** : Change the display size of the sub source in PIP mode.
- **Swap** : Swap the main source and sub source.

Source Key

Configure the source settings.

- **Change Sources** : Change the input source.
- **List All Sources** : List all input sources.
- **Auto Source** : Automatically detect and select input source.

Auto Image

Select the the timing detection mode to support input signal with marginal quality. After the selection, the projector will reacquire and lock the signal.

- **Normal** : Best for 4:3 input source.
- **Wide** : Best for 16:9 input source and most 4:3 input source.

Source Info

Display the information of the current input source.

4.4 Settings Menu

Overview

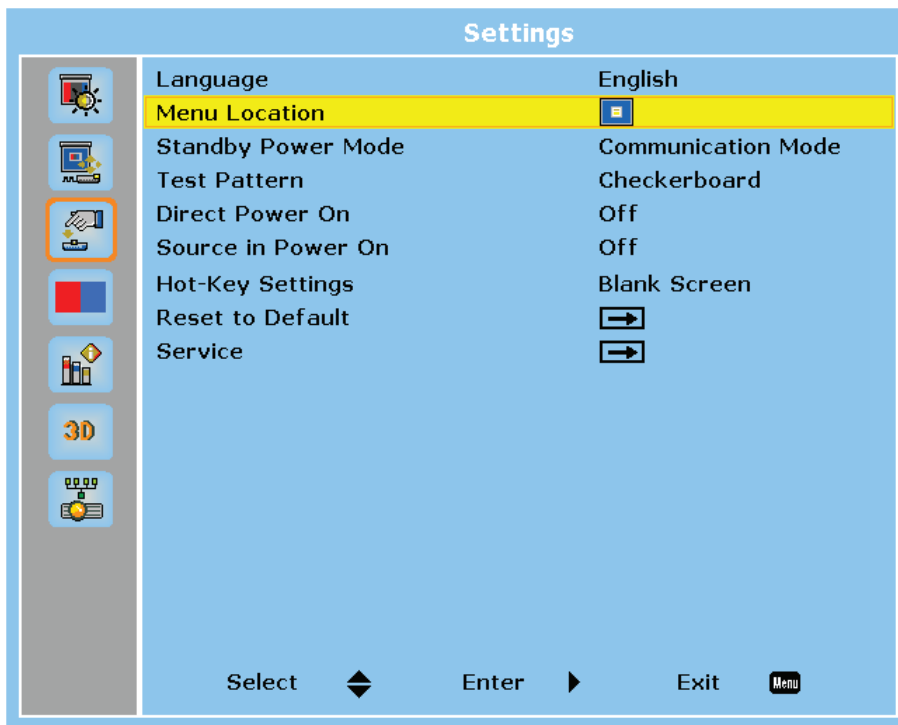


Image 4-11

Language

Select the language of the OSD menu. The available languages are English, Simplified Chinese, French, German, Italian, Japanese, Korean, Russian, Spanish, Portuguese, Indonesian, Dutch.

Menu Location

Adjust the location of the OSD menu. The available languages are Left Top, Right Top, Center, Left Bottom and Right Bottom.

Standby Power Mode

Select the power mode for the projector in standby status.

- **Standby Mode** : Minimum power consumption (0,5 Watt) which does not allow controlling the projector over the network.
- **Network Standby Mode** : Low power consumption (< 2W) which allows the LAN module to enter sleep mode and supports to be woken by Wake on LAN (WoL). When the LAN module is woken by WoL, the projector is ready to receive commands over the network.
- **Communication Mode** : More power consumption that allows controlling the projector over the network.

Test Pattern

Select a test pattern. The available options are None, Grid, White, Black, Checkerboard, and Color Bars.

Direct Power On

Turn on this function to have the projector automatically turning on when connected to AC power.

Source in Power On

Turn on this function to have the projector automatically turning on when connected to HDMI input sources. It only applies to the standby projector set to Communication Mode.

Hot-Key Settings

Assign a specific function to the “Hot Key” button on the remote control. It allows you to use the function easily without going through the OSD menus. The available functions for “Hot Key” button are Blank Screen, Aspect Ratio, Freeze Screen, and Projector Info.

Reset to Default

Reset all settings to the factory default values.

Service

The service menu is only available to Barco qualified service technicians.

4.5 Light Source Menu

Overview

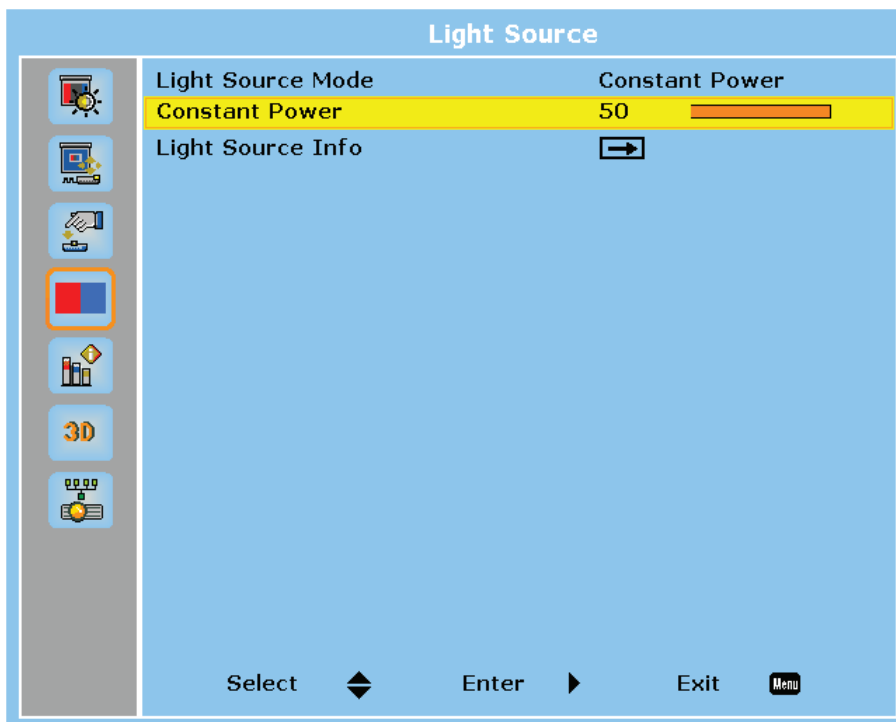


Image 4-12

Light Source Mode

Set up the light source mode depending on the installations.

- **Constant Power** : Enable the Constant Power to meet different installation requirements.
- **Constant Intensity** : Select to maintain the current constant brightness and color settings. It is used after the Constant Power is enabled.
- **ECO** : Set the projector to 50% constant brightness and color settings.

Constant Power

Select a value for the laser diode power. The value ranges from 0 to 99, which covers the power level from 30% to 100%. The power level can be managed to obtain the brightest image or longest service life.

Light Source Info

Display the total used hours of the laser diode and information on light sensor calibration

4.6 Options Menu

Overview

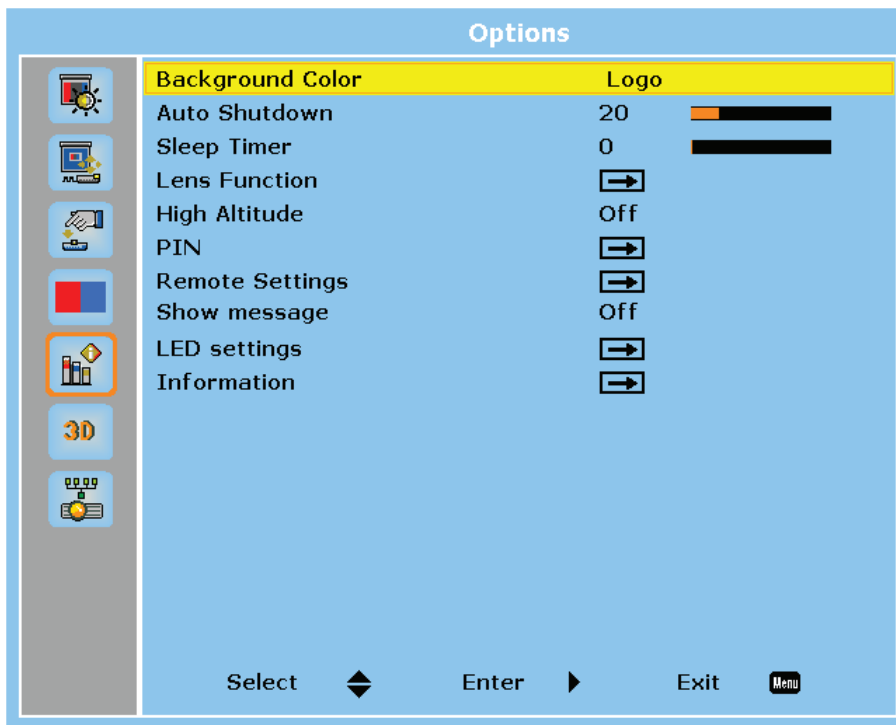


Image 4-13

Background Color

Select the background color when no signal is detected. The available options are Logo, Blue, Black, and White.

Auto Shutdown

Set a time value for the projector to automatically turn off if no signal is detected within the specified time period.

Sleep Timer

Set a time value for the projector to automatically turn off after operating for the specified amount of time.

Lens Function

Configure the lens settings.

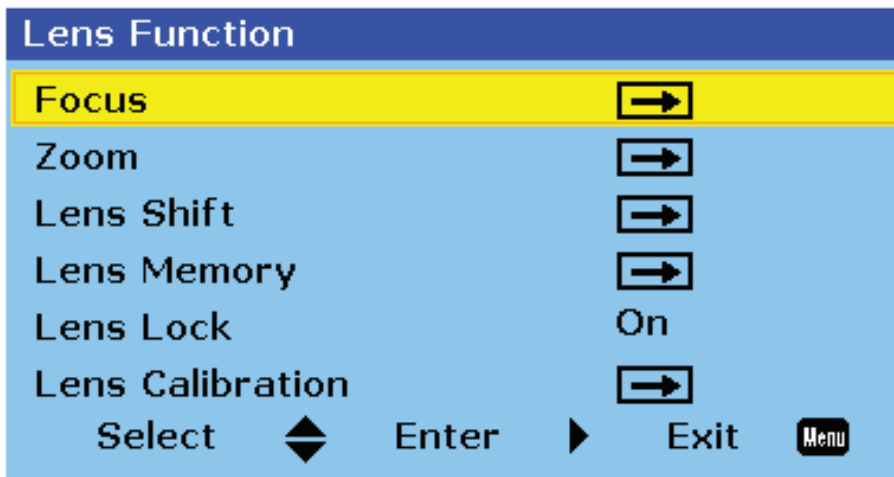


Image 4-14

- **Focus** : Use up and down arrow keys to adjust the focus of the projected image.
- **Zoom** : Use up or down arrow keys to zoom in or zoom out of the projected image.
- **Lens Shift** : Use arrow keys to adjust the lens position to shift the projected area.
- **Lens Memory** : Save or apply the current lens position. The projector can save up to five records.
- **Lens Lock** : Lock the lens to prevent the lens motors from moving.
- **Lens Calibration** : Calibrate the lens to return it to the center position.

High Altitude

When the projector is operated at the altitude over 5,000ft (1,500m), enable this function to have the projector fans operating at high speed to ensure proper air circulation.

PIN

Set a PIN number to protect the projector.

- **PIN Protect** : Enable PIN Protect to protect the project. A PIN number is required once this function is enabled. (Default: 12345)
- **Change PIN** : Change the PIN number.

Remote Settings

Set up the remote receiver to control the communication between the projector and the remote control.

- **Top** : Enable or disable the top remote receiver.
- **Front** : Enable or disable the front remote receiver.
- **HDBaseT** : Select On to set the HDBaseT terminal as the remote receiver.
- **Projector Address** : Set a specific number for the projector as its address. The projector will only respond to the remote control set with the same address.

Show Messages

Turning on or off the on screen messages showing the projector status information, such as input source, IP address, and gamma.

LED Settings

Configure the status LED indicators to help identify the projector status. The definitions of the status LED are discussed in the chapter "LED indication chart", page 42.

- **Keypad LED** : Turn on or off the keypad backlight.
- **Status LED** : Turn on or off the status LED indicators, or select Warning/Errors Only to enable the indicators for warning and error only.

Information

Display the projector information, such as model name, firmware version, and main input.

4.7 3D Menu

Overview

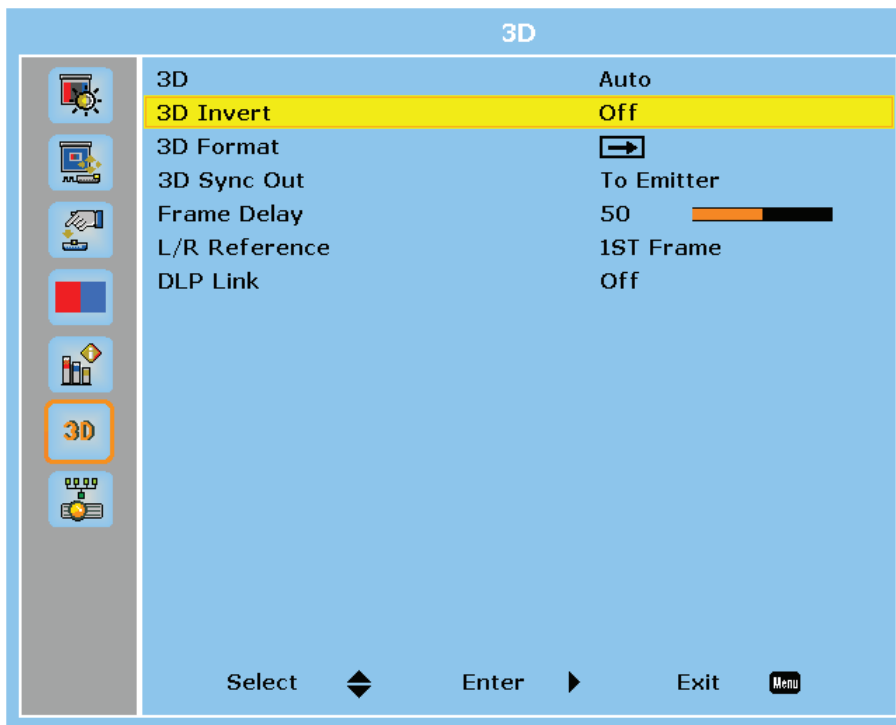


Image 4-15

3D

Enable the 3D function.

- **Auto** : The projector automatically enables 3D function when receiving the 3D input in 1.4a format.
- **On** : Turn on the 3D function manually.

3D Invert

3D video files and images combine two slightly different images (frames) of the same scene representing the different views that the left and right eyes see. When these frames are displayed fast enough and viewed with 3D glasses synchronized with the left and right frames, the viewer's brain then assemble the separate images into a single 3D image. When the 3D image does not appear correctly, invert the sequence of the left and right frames.

3D Format

Select a proper 3D format for the 3D input signal. The available options are Frame Packing, Side-by-Side (Half), Top and Bottom, and Frame Sequential.

3D Sync Out

Set up the transmission of the 3D sync output signal.

- **To Emitter** : Send the 3D sync output signal to the emitter connected to the projector's 3D sync out port.
- **To Next Projector** : For multiple projector applications, send the 3D sync output signal to next projector.

Frame Delay

Set a frame delay value for the projector to correct the time difference between the 3D signal being given and the result being executed. This function works only when L/R Reference is set to Field GPIO.

When performing 3D blending on multiple projectors, set the frame delay for each projector to correct the none synchronous images.

L/R Reference

Select the reference for left and right (L/R) frames.

- **1ST Frame** : When the projector generates 3D sync signal internally, select this option to set the first frame of the input source as the projector's left reference. If the 3D image does not appear correctly, use 3D Invert function to swap the left and right frames.
- **Field GPIO** : When the projector receives external 3D sync signal through a 3D sync in cable, select this option to have the projector's L/R reference synchronizing with the 3D sync signal from the 3D sync in cable.

DLP Link

Enable or disable the DLP Link function according to how the 3D sync signal is processed.

- **On** : Turn on DLP Link when the 3D sync signal is generated by the DLP Link technology built-in the projector. DLP Link works only with the glasses that are compatible with DLP 3D technology and the 3D function is enabled.
- **Off** : Turn off DLP Link when the 3D sync out signal is sent to an emitter or another projector through the 3D sync out port.

4.8 Communications Menu

Overview

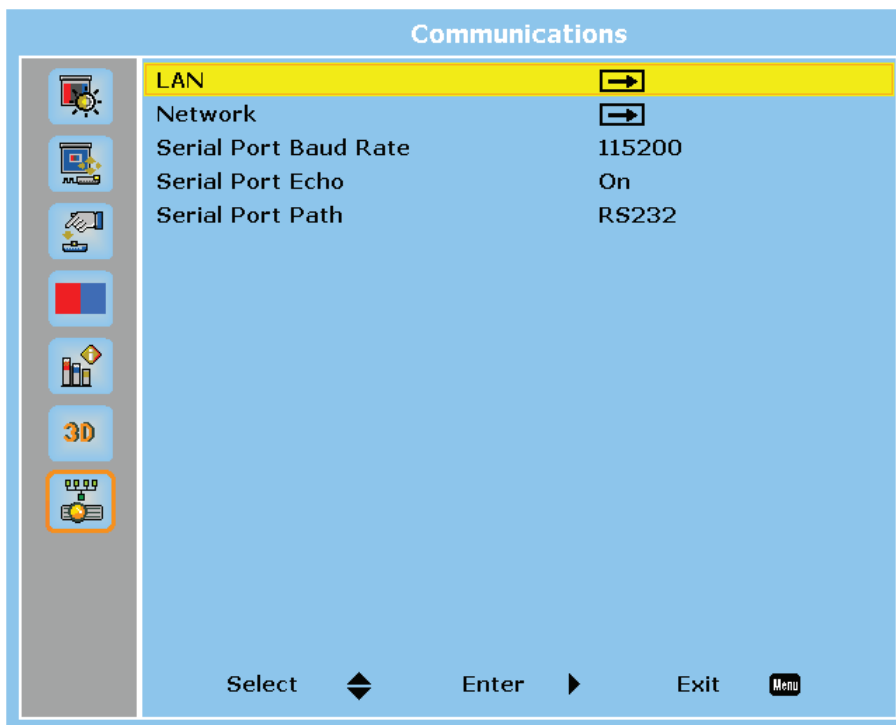


Image 4-16

LAN

Configure the LAN settings for network communications.

- **DHCP** : Turn on DHCP to automatically acquire IP address, subnet mask, gateway, and DNS. If it is turned off, manually enter the values for the network.
- **IP Address** : Set the projector's IP address.
- **Subnet Mask** : Set the projector's subnet mask.
- **Default Gateway** : Set the projector's gateway.
- **MAC Address** : Display the MAC address.
- **Apply** : Apply the network settings.

Network

View and configure the projector's network settings.

- **Projector Name** : Display the projector name.
- **Show Network Messages** : Select On to display network information as on screen messages.
- **Network Factory Reset** : Reset the network settings to factory default settings.

Serial Port Baud Rate

Select a serial port and baud rate. The available options include 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, and 115200.

Serial Port Echo

When set to On, the projector will return the serial command it receives. The user can view the command that has been sent to the projector.

Serial Port Path

Select the serial port path for the serial commands. The available options are RS232 or HDBaseT.

Troubleshooting

5



If you experience a problem with your projector, please refer to the following information. If a problem persists, please contact your local re-seller or service center.

Overview

- LED indication chart
- Projector Problems

5.1 LED indication chart

Overview

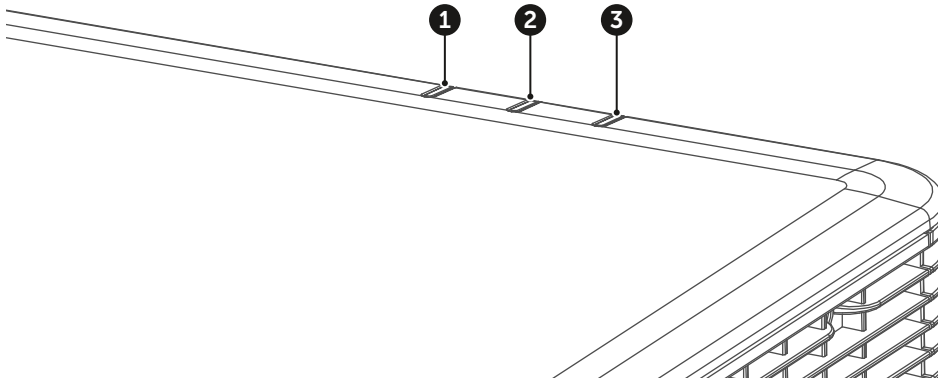


Image 5-1

- 1 Light LED
- 2 Status LED
- 3 AV Mute LED

Explanation

Message	Light LED			Status LED			AV Mute LED	
	Green	Orange	Red	Green	Orange	Red	Green	Orange
Standby State								
Power on (Warm up)					Flash- ing			
Power on & Laser diode on	Steady			Steady			Steady	
AV mute is off (Image is displayed)	Steady			Steady			Steady	
AV mute is on (Image is black)	Steady			Steady				Steady
Projector communication	Steady			Flash- ing			Steady	
Firmware upgrade				Flash- ing	Flash- ing			
Laser diode time has expired		Steady						
Unit loses over 60% initial luminance								
Error (Over temperature)						Steady		
Error (Fan failure)						Flash- ing		



Power key of the keypad is in steady red light when the projector enters standby mode.

5.2 Projector Problems

No image appears on-screen

- Check if all the cables and the AC power are correctly connected. For more details, refer to the installation manual.
- Check if the pins of the connectors are not crooked or broken.
- Check if the “Shutter (AV Mute)” function is disabled.

Partial, scrolling or incorrectly displayed image

- Press “Auto” on the remote control to detect input signal automatically.
- If you are using a PC, set the PC’s resolution lower or equal to WUXGA (1920 × 1200).
- If you are using a Notebook:
 - Set the resolution lower or equal to WUXGA (1920 × 1200).
 - Press the appropriate keys listed below for your notebook manufacturer to send signal out from notebook to projector. Example: [Fn]+[F4]

Acer	[Fn]+[F5]
Asus	[Fn]+[F8]
Dell	[Fn]+[F8]
Gateway	[Fn]+[F4]
BM/Lenovo	[Fn]+[F7]
HP/Compaq	[Fn]+[F4]
NEC	[Fn]+[F3]
Toshiba	Fn]+[F5]
Mac Apple	System Preference > Display > Arrangement > Mirror display

- If you experience difficulty changing resolutions or your monitor freezes, restart all equipments including the projector.

Image is flickering and shimmering

- Adjust the pixel phase and pixel track of the projector. See “Pixel Phase” and “Pixel Track” in chapter “Screen Menu”, page 30.

Image is fuzzy and blurry

- Press the “Focus ▲” or “Focus ▼” button on the remote control or control panel to adjust the image focus until it is sharp and clear. To adjust focus from OSD menu, select “Options > Lens function > Focus”.
- Make sure the projection screen is in proper distance with the projector. For projection distances of each lens, see chapter installation manual.

Stretched when displaying 16:10 DVD videos

- Set appropriate aspect ratio for the projector by selecting “Screen > Aspect Ratio” from the OSD menu.
- Set the aspect ratio to 16:10 on the DVD player.

Image is too small or too large

- Adjust the image size by pressing the “Zoom ▲” or “Zoom ▼” button on the remote control or control panel, or selecting “Options > Lens function > Zoom” from the OSD menu.
- Adjust the distance between the projector and the screen.
- Adjust the aspect ratio by selecting “Screen > Aspect Ratio” from the OSD menu.

Image is not an even rectangle

- Perform keystone correction by pressing the “Keystone H” and “Keystone V” button on the remote control, or using “Screen > Geometric Correction > V. Keystone or “H. Keystone” from the OSD menu.

Image is reversed

- To reverse the image, enable rear projection by selecting “Screen > Rear Projection > On” from the OSD menu.

The projector stops responding to all controls

- If possible, turn off the projector, then unplug the power cord and wait at least 60 seconds before reconnecting power.

If the remote control does not work

- Check if the operating angle of the remote control is pointed within $\pm 30^\circ$ (front and back) to the remote receivers on the projector. Make sure there are any obstructions between the remote control and the projector.
- Check the remote batteries. Make sure batteries are inserted correctly. Replace the batteries if they are used up.
- Ensure you have set the correct IR code to the remote control. See “Remote Settings” in the chapter “Options Menu”, page 36.

Specifications



Overview

- Product specification of the G60-W7
- Product specification of the G60-W8
- Product specification of the G60-W10
- Compatibility modes
- Dimensions of the G60
- Ceiling mount

A.1 Product specification of the G60-W7

Specifications

Projector type	Single chip DLP laser phosphor projector
Resolution	1,920 x 1,200 (WUXGA)
Brightness	7,000 center lumens
Contrast ratio	1,200:1 sequential; 6,000:1 dynamic; Extreme black: 100,000:1
Brightness uniformity	85%
Aspect ratio	16:10
Lens type	G-lenses - 0.36:1 / 0.75-0.95:1 / 0.95-1.22:1 / 1.22-1.52:1 / 1.52-2.92:1 / 2.90-5.50:1
Optical lens shift	Up to 100% vertical lens shift, up to 30% horizontal lens shift. Motorized zoom, focus, vertical and horizontal shift
Color correction	Yes
CLO (constant light output)	Yes
Light source	Laser phosphor
Light source lifetime	Up to 20,000hrs
Sealed DLP™ core	Yes
Orientation	360° rotation, no restrictions
3D	Active stereoscopic 3D
Image processing	Embedded warp & blend possible via Ptoolset
Keystone correction	Yes
Inputs	2x HDMI 1.4 / DVI-D / HDBaseT / 3G-SDI / VGA (D-Sub 15 pin) / RJ 45 Ethernet / RS232 in
Input resolutions	Up to 1,920 x 1,200 @ 60Hz
Software tools	Projector Toolset
Control	IR, RS232, RJ45, 3.5mm phone jack for wired remote
Network connection	10/100 Ethernet, RJ45
Power requirements	100-240V / 50-60Hz
Power consumption	520W nominal, 600W maximum
BTU per hour	1,780 BTU/h nominal; 2,050 BTU/h maximum
Standby power	< 0.5W
Noise level (typical at 25°C/ 77°F)	36dB(A) - 40dB(A) depending on the used mode
Operating temperature	5 - 40 °C (sea level)
Storage temperature	-10 to 60 °C
Operating humidity	10 - 85% RH, non-condensing
Storage humidity	5 - 90% RH, non-condensing
Dimensions (WxLxH)	without feet: 484 x 529 x 195 mm / 19.06 x 20.83 x 7.68 in

Weight	without lens: 16.9 kg / 37.3 lbs
Standard accessories	Power cord, wireless remote control
Certifications	CE, FCC Class A, cTUVUS, CCC, EAC, KCC, RCM, BIS, BSMI
Warranty	Limited 3 years parts and labor

A.2 Product specification of the G60-W8

Specifications

Projector type	Single chip DLP laser phosphor projector
Resolution	1,920 x 1,200 (WUXGA)
Brightness	8,000 center lumens
Contrast ratio	1,200:1 sequential; 6,000:1 dynamic; Extreme black: 100,000:1
Brightness uniformity	85%
Aspect ratio	16:10
Lens type	G-lenses - 0.36:1 / 0.75-0.95:1 / 0.95-1.22:1 / 1.22-1.52:1 / 1.52-2.92:1 / 2.90-5.50:1
Optical lens shift	Up to 100% vertical lens shift, up to 30% horizontal lens shift. Motorized zoom, focus, vertical and horizontal shift
Color correction	Yes
CLO (constant light output)	Yes
Light source	Laser phosphor
Light source lifetime	Up to 20,000hrs
Sealed DLP™ core	Yes
Orientation	360° rotation, no restrictions
3D	Active stereoscopic 3D
Image processing	Embedded warp & blend possible via Ptoolset
Keystone correction	Yes
Inputs	2x HDMI 1.4 / DVI-D / HDBaseT / 3G-SDI / VGA (D-Sub 15 pin) / RJ 45 Ethernet / RS232 in
Input resolutions	Up to 1,920 x 1,200 @ 60Hz
Software tools	Projector Toolset
Control	IR, RS232, RJ45, 3.5mm phone jack for wired remote
Network connection	10/100 Ethernet, RJ45
Power requirements	100-240V / 50-60Hz
Power consumption	635W nominal, 730W maximum
BTU per hour	2,170 BTU/h nominal; 2,500 BTU/h maximum
Standby power	< 0.5W
Noise level (typical at 25°C/ 77°F)	36dB(A) - 40dB(A) depending on the used mode

Operating temperature	5 - 40 °C (sea level)
Storage temperature	-10 to 60 °C
Operating humidity	10 - 85% RH, non-condensing
Storage humidity	5 - 90% RH, non-condensing
Dimensions (WxLxH)	without feet: 484 x 529 x 195 mm / 19.06 x 20.83 x 7.68 in
Weight	without lens: 17.4 kg / 38.4 lbs
Standard accessories	Power cord, wireless remote control
Certifications	CE, FCC Class A, cTUVUS, CCC, EAC, KCC, RCM, BIS, BSMI
Warranty	Limited 3 years parts and labor

A.3 Product specification of the G60-W10

Specifications

Projector type	Single chip DLP laser phosphor projector
Resolution	1,920 x 1,200 (WUXGA)
Brightness	10,000 center lumens
Contrast ratio	1,200:1 sequential; 6,000:1 dynamic; Extreme black: 100,000:1
Brightness uniformity	85%
Aspect ratio	16:10
Lens type	G-lenses - 0.36:1 / 0.75-0.95:1 / 0.95-1.22:1 / 1.22-1.52:1 / 1.52-2.92:1 / 2.90-5.50:1
Optical lens shift	Up to 100% vertical lens shift, up to 30% horizontal lens shift. Motorized zoom, focus, vertical and horizontal shift
Color correction	Yes
CLO (constant light output)	Yes
Light source	Laser phosphor
Light source lifetime	Up to 20,000hrs
Sealed DLP™ core	Yes
Orientation	360° rotation, no restrictions
3D	Active stereoscopic 3D
Image processing	Embedded warp & blend possible via Ptoolset
Keystone correction	Yes
Inputs	2x HDMI 1.4 / DVI-D / HDBaseT / 3G-SDI / VGA (D-Sub 15 pin) / RJ 45 Ethernet / RS232 in
Input resolutions	Up to 1,920 x 1,200 @ 60Hz
Software tools	Projector Toolset
Control	IR, RS232, RJ45, 3.5mm phone jack for wired remote
Network connection	10/100 Ethernet, RJ45

Power requirements	100-240V / 50-60Hz
Power consumption	935W nominal, 1080W maximum
BTU per hour	3,190 BTU/h nominal; 3,690 BTU/h maximum
Standby power	< 0.5W
Noise level (typical at 25°C/ 77°F)	36dB(A) - 40dB(A) depending on the used mode
Operating temperature	5 - 40 °C (sea level)
Storage temperature	-10 to 60 °C
Operating humidity	10 - 85% RH, non-condensing
Storage humidity	5 - 90% RH, non-condensing
Dimensions (WxLxH)	without feet: 484 x 529 x 195 mm / 19.06 x 20.83 x 7.68 in
Weight	without lens: 22.7 kg / 50.1 lbs
Standard accessories	Power cord, wireless remote control
Certifications	CE, FCC Class A, cTUVUS, CCC, EAC, KCC, RCM, BIS, BSMI
Warranty	Limited 3 years parts and labor

A.4 Compatibility modes

Timing table

Signal type	Resolution	Frame rate (Hz)	VGA	HDMI1/2	DVI	HDBa-seT	3G-SDI
PC	640x350	85		V	V	V	
	640x400	85	V	V	V	V	
	640x480	59		V	V	V	
	640x480	60	V	V	V	V	
	640x480	72	V	V	V	V	
	640x480	75	V	V	V	V	
	640x480	85	V	V	V	V	
	720x400	60	V	V	V	V	
	720x400	85	V				
	768x480	60		V	V	V	
	768x480	75		V	V	V	
	768x480	85		V	V	V	
	800x600	50		V	V	V	
	800x600	56	V	V	V	V	
	800x600	60	V	V	V	V	
	800x600	72	V	V	V	V	
	800x600	75	V	V	V	V	
	800x600	85	V	V	V	V	
	848x480	50		V	V	V	
	848x480	60		V	V	V	
	848x480	75		V	V	V	
	848x480	85		V	V	V	
	960x600	50		V	V	V	
	960x600	60		V	V	V	
960x600	75		V	V	V		

Signal type	Resolution	Frame rate (Hz)	VGA	HDMI1/2	DVI	HDBa-seT	3G-SDI
	960x600	85		V	V	V	
	1024x768	60	V	V	V	V	
	1024x768	75	V	V	V	V	
	1024x768	85	V	V	V	V	
	1024x768	120	V	V	V	V	
	1064x600	50		V	V	V	
	1064x600	60		V	V	V	
	1064x600	75		V	V	V	
	1064x600	85		V	V	V	
	1152x720	50		V	V	V	
	1152x720	60		V	V	V	
	1152x720	75		V	V	V	
	1152x720	85		V	V	V	
	1152x864	60	V	V	V	V	
	1152x864	70	V	V	V	V	
	1152x864	75	V	V	V	V	
	1152x864	85	V	V	V	V	
	1224x768	50		V	V	V	
	1224x768	60		V	V	V	
	1224x768	85		V	V	V	
	1280x720	50		V	V	V	
	1280x720	60	V	V	V	V	
	1280x720	75	V	V	V	V	
	1280x720	85	V	V	V	V	
	1280x720	120		V	V	V	
	1280x768	60	V	V	V	V	
	1280x768	75	V	V	V	V	
	1280x768	85	V	V	V	V	
	1280x800	50	V	V	V	V	
	1280x800	60	V	V	V	V	
	1280x800	75	V	V	V	V	
	1280x800	85	V	V	V	V	
	1280x960	50		V	V	V	
	1280x960	60	V	V	V	V	
	1280x960	75	V	V	V	V	
	1280x960	85	V	V	V	V	
	1280x1024	50		V	V	V	
	1280x1024	60	V	V	V	V	
	1280x1024	75	V	V	V	V	
	1280x1024	85	V	V	V	V	
	1360x768	50		V	V	V	
	1360x768	60		V	V	V	
	1360x768	75		V	V	V	
	1360x768	85		V	V	V	
	1366x768	60	V	V	V	V	
	1400x900	60	V		V		
	1400x1050	50		V	V	V	
	1400x1050	60	V	V	V	V	
	1400x1050	75	V	V	V	V	
	1440x900	60	V	V	V	V	
	1440x900	75		V	V	V	
	1600x900	60		V	V	V	

Signal type	Resolution	Frame rate (Hz)	VGA	HDMI1/2	DVI	HDBa-seT	3G-SDI
	1600x1200	50		V	V	V	
	1600x1200	60	V	V	V	V	
	1680x1050	50		V	V	V	
	1680x1050	60	V	V	V	V	
	1704x960	50		V	V	V	
	1704x960	60		V	V	V	
	1728x1080	50		V	V	V	
	1728x1080	60		V	V	V	
	1864x1050	50		V	V	V	
	1864x1050	60		V	V	V	
	1920X1080	50		V	V	V	
	1920X1080	60	V	V	V	V	
	1920X1200RB	60	V	V	V	V	
	1920X1200RB	50	V	V	V	V	
SDTV	480i	60	V	V	V	V	
	576i	50	V	V	V	V	
EDTV	480p	60	V	V	V	V	
	576p	50	V	V	V	V	
HDTV	1080i	25	V	V	V	V	
	1080i	29	V	V	V	V	
	1080i	30	V	V	V	V	
	720p	50	V	V	V	V	
	720p	59	V	V	V	V	
	720p	60	V	V	V	V	
	1080s	23			V		
	1080s	24			V		
	1080p	23	V	V	V	V	
	1080p	24	V	V	V	V	
	1080p	25	V	V	V	V	
	1080p	29	V	V	V	V	
	1080p	30	V	V	V	V	
	1080p	50	V	V	V	V	
	1080p	59	V	V	V	V	
	1080p	60	V	V	V	V	
Mandatory 3D	Frame Packing 1080p	24		V	V	V	
	Frame Packing 720p	50		V	V	V	
		60		V	V	V	
	Side by Side 1080i	50		V	V	V	
		60		V	V	V	
	Top and Bottom 720p	50		V	V	V	
		60		V	V	V	
	Top and Bottom 1080p	24		V	V	V	
Frame Sequential	1024x768	120		V	V	V	
	1280x720	120		V	V	V	
SD-SDI	480i YcbCr422 10bit	59.94					V
	576i YcbCr422 10bit	50					V
HD-SDI	720p Ycb-Cr422 10bit	50					V
	720p Ycb-Cr422 10bit	59.94					V
	720p Ycb-Cr422 10bit	60					V
	1080i Ycb-Cr422 10bit	50					V

Signal type	Resolution	Frame rate (Hz)	VGA	HDMI1/2	DVI	HDBaseT	3G-SDI
	1080i Ycb-Cr422 10bit	59.94					V
	1080i Ycb-Cr422 10bit	60					V
	1080p Ycb-Cr422 10bit	23.98					V
	1080p Ycb-Cr422 10bit	24					V
	1080p Ycb-Cr422 10bit	25					V
	1080p Ycb-Cr422 10bit	29.97					V
	1080p Ycb-Cr422 10bit	30					V
	1080sF Ycb-Cr422 10bit	25					V
	1080sF Ycb-Cr422 10bit	29.97					V
	1080sF Ycb-Cr422 10bit	30					V
3GA-SDI	1080p Ycb-Cr422 10bit	50					V
		59.94					V
		60					V
3GB-SDI	1080p Ycb-Cr422 10bit With 352M Payload ID	50					V
		59.94					V
		60					V

PIP/PBP Compatibility

PIP/PBP Matrix	VGA	DVI-D	HDMI-1	HDMI-2	3G-SDI	HDBaseT
VGA		V	V	V	V	V
DVI-D	V		V	V	V	V
HDMI-1	V	V		V	V	V
HDMI-2	V	V	V		V	V
3G-SDI	V	V	V	V		V
HDBaseT	V	V	V	V	V	



PIP/PBP does not support 3D input.

A.5 Dimensions of the G60



CAUTION: Avoid installing the projector near a heat source.

Front view

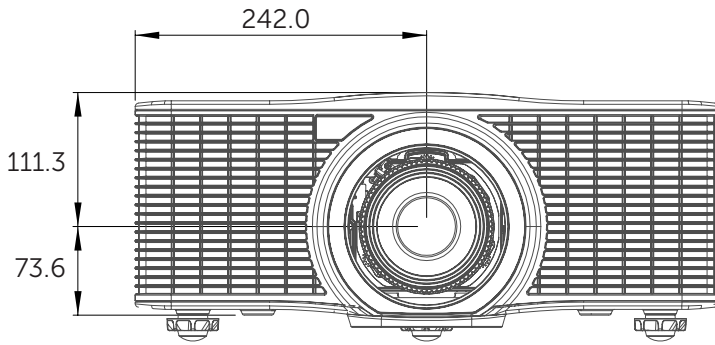


Image A-1: Dimensions given in millimeters.

Rear view

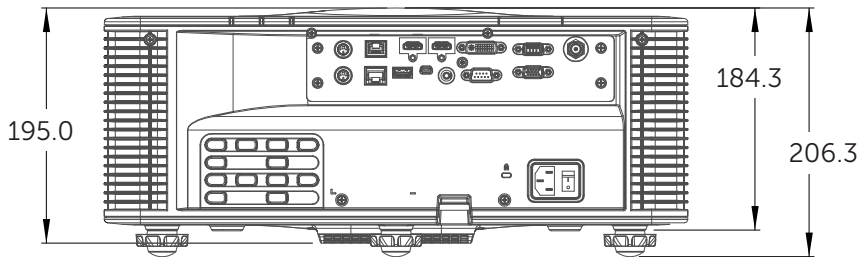


Image A-2: Dimensions given in millimeters.

Top view

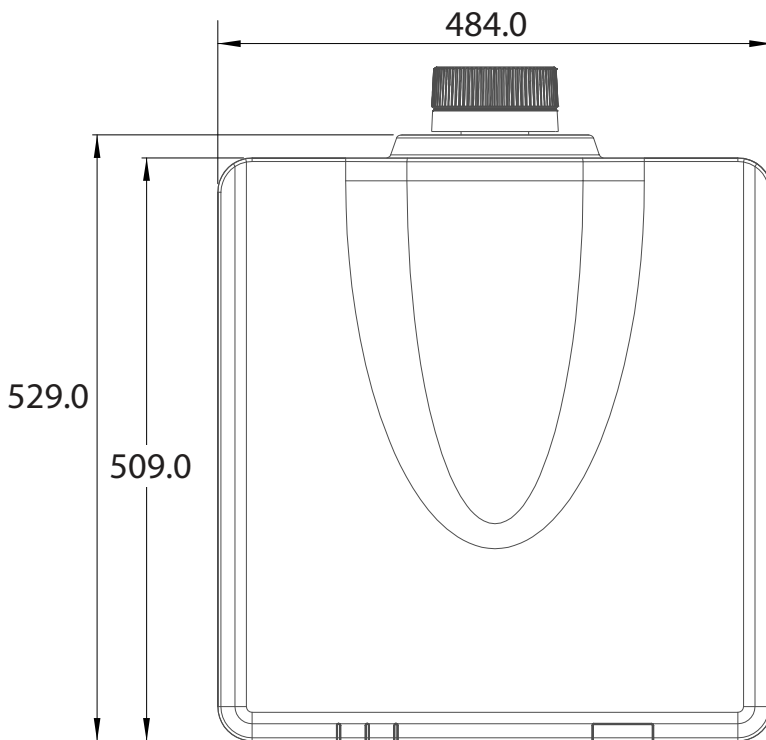


Image A-3: Dimensions given in millimeters.

A.6 Ceiling mount

About ceiling mount



CAUTION: Be sure to use the correct screw size. Screw Length will vary depending on the thickness of the mounting plate.



CAUTION: Be sure to keep at least 30 mm gap between the ceiling and the bottom of the projector.

Projector mounting holes

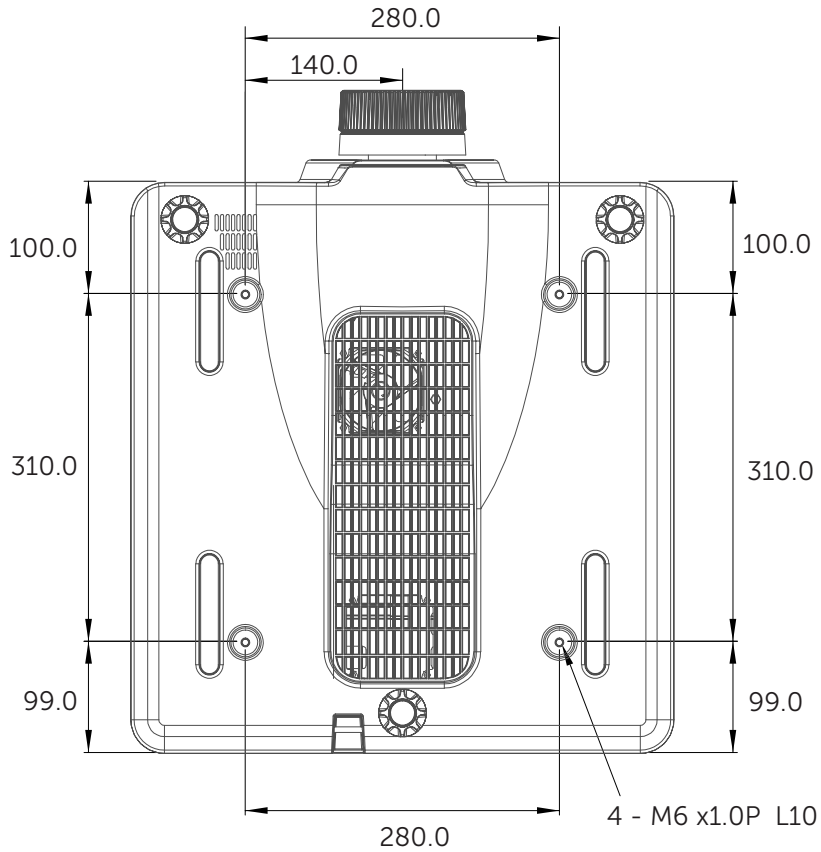


Image A-4: Dimensions given in millimeters.

Environmental information

B

Overview

- [China RoHS compliance](#)
- [Taiwan RoHS compliance](#)
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- [Disposal information](#)
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B.1 China RoHS compliance

中国大陆 RoHS (Information for China ROHS compliance)

根据中国大陆《电器电子产品有害物质限制使用管理办法》（也称为中国大陆RoHS），以下部分列出了Barco产品中可能包含的有毒和/或有害物质的名称和含量。中国大陆RoHS指令包含在中国信息产业部MCV标准：“电子信息产品中有毒物质的限量要求”中。

According to the “Management Methods for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products” (Also called RoHS of Chinese Mainland), the table below lists the names and contents of toxic and/or hazardous substances that Barco’s product may contain. The RoHS of Chinese Mainland is included in the MCV standard of the Ministry of Information Industry of China, in the section “Limit Requirements of toxic substances in Electronic Information Products”.

零件项目(名称) Component name	有毒有害物质或元素 Hazardous substances and elements					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
外壳 Shell	X	O	X	O	O	O
主板 Motherboard	X	O	O	O	O	O
引擎模块 Engine module	X	O	O	O	O	O
雷射光源模组 Laser light source module	X	O	O	O	O	O
风扇 Fan	X	O	O	O	O	O
铁件 Iron frame	X	O	O	O	O	O
线材 Wire	X	O	X	O	O	O
遥控器 Remote control	X	O	O	O	O	O
包装 Package	O	O	O	O	O	O

本表格依据SJ/T 11364的规定编制

This table is prepared in accordance with the provisions of SJ/T 11364.

O: 表示该有毒有害物质在该部件所有均质材料中的含量均在 GB/T 26572 标准规定的限量要求以下。

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in GB/T 26572.

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 标准规定的限量要求。

X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in GB/T 26572.



在中国大陆销售的相应电子信息产品（EIP）都必须遵照中国大陆《电子电气产品有害物质限制使用标识要求》标准贴上环保使用期限（EFUP）标签。Barco产品所采用的EFUP标签（请参阅实例，徽标内部的编号使用于指定产品）基于中国大陆的《电子信息产品环保使用期限通则》标准。

All Electronic Information Products (EIP) that are sold within Chinese Mainland must comply with the “Marking for the restriction of the use of hazardous substances in electrical and electronic product” of Chinese Mainland, marked with the Environmental Friendly Use Period (EFUP) logo. The number inside the EFUP logo that Barco uses (please refer to the photo) is based on the “General guidelines of environment-friendly use period of electronic information products” of Chinese Mainland.

B.2 Taiwan RoHS compliance

限用物質含有情況標示聲明書 (Declaration of the Presence Condition of the Restricted Substances Marking)

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr6+)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
塑膠外殼 Plastic shell	—	○	○	○	○	○
電源供應器 Power supply	—	○	○	○	○	○
印刷電路板 Printed circuit board	—	○	○	○	○	○
絕緣墊片 Insulating gasket	○	○	○	○	○	○
光學鏡片 Optical lenses	—	○	○	○	○	○
雷射模組 Laser module	—	○	○	○	○	○
風扇模組 Fan module	—	○	○	○	○	○
鐵件 Iron frame	—	○	○	○	○	○
線材 wire (interlock switch/power cord)	—	○	—	○	○	○
喇叭 Speaker	—	○	○	○	○	○
馬達 Motor	—	○	○	○	○	○
自復式保險絲 Resettable fuse (polyswitch)	○	○	○	○	○	○

	限用物質及其化學符號 Restricted substances and its chemical symbols					
單元 Unit	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr6+)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
配件 (如:遙控器等) Accessories (remote control, etc.)	—	○	○	○	○	○
<p>備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值。 Note 1 : “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.</p> <p>備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2 : “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>備考3. “—”係指該項限用物質為排除項目。 Note 3 : The “—” indicates that the restricted substance corresponds to the exemption.</p>						

備註: 此RoHS表格適用於以下產品型號: G60-W7, G60-W8, G60-W10

Hint: This RoHS table is suitable for following models: G60-W7, G60-W8, G60-W10

B.3 Turkey RoHS compliance

Turkey RoHS compliance



■ Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur.

[Republic of Turkey: In conformity with the WEEE Regulation]

B.4 Disposal information

Disposal Information

Waste Electrical and Electronic Equipment



■ This symbol on the product indicates that, under the European Directive 2012/19/EU governing waste from electrical and electronic equipment, this product must not be disposed of with other municipal waste. Please dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

For more information about recycling of this product, please contact your local city office or your municipal waste disposal service.

For details, please visit the Barco website at: <http://www.barco.com/AboutBarco/weee>

Disposal of batteries in the product



This product contains batteries covered by the Directive 2006/66/EC which must be collected and disposed of separately from municipal waste.

If the battery contains more than the specified values of lead (Pb), mercury (Hg) or cadmium (Cd), these chemical symbols will appear below the crossed-out wheeled bin symbol.

By participating in separate collection of batteries, you will help to ensure proper disposal and to prevent potential negative effects on the environment and human health.

B.5 Production address

Producer

Barco NV (BELGIUM) Entertainment Division
Beneluxpark 21, 8500 Kortrijk, Belgium

Made in information

The made in country is indicated on the product ID label on the product itself.

Production date

The month and year of production is indicated on the product ID label on the product itself.

B.6 Contact information

Barco contact information

Registered office address: President Kennedypark 35, 8500 Kortrijk, Belgium

Contact address: Beneluxpark 21, 8500 Kortrijk, Belgium

Importers contact information

To find your local importer, contact Barco directly or one of Barco's regional offices via the contact information given on Barco's web site, www.barco.com.

B.7 Download Product Manual

Download Product Manual

Product manuals and documentation are available online at www.barco.com/td.

Registration may be required; follow the instructions given on the website.

IMPORTANT! Read Installation Instructions before connecting equipment to the mains power supply.

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