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area may cause harmful interference, in which case the user will be responsible for correcting any interference at his own expense.

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

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

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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.

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警告使用者：此為甲類資訊技術設備，於居住环境中使用，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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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.
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.
• IEC 60825-1: 2014 Class 1 RG2
• IEC 62471-5:2015 RG2
• Additional instructions to supervise children, no staring, and not use optical aids.
• Additional instructions to install above the reach of children.
• Notice is given to supervise children and to never allow them to stare into the projector beam at any distance from the projector.
• Notice is given to use caution when using the remote control for starting the projector while in front of the projection lens.
• Notice is given to the user to avoid the use of optical aids such as binoculars or telescopes inside the beam.
• “As with any bright light source, do not stare into the beam, RG2 IEC 62471-5:2015”.
• “WARNING: MOUNT ABOVE THE HEADS OF CHILDREN. The use of a ceiling mount is recommended with this product to place it above the eyes of children.”

Notice on safety

This equipment is built in accordance with the requirements of the applicable international safety standards. 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


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.
• This projector uses extremely high brightness laser. Never attempt to look directly into the lens or into the light beam. The bright light may result in permanent eye damage. (Risk Group 2 of IEC 62471-5:2015).
• When turning on the projector, make sure no one within projection range is looking into the lens.
• Keep any reflective objects out of the light path of the projector. Glass and shiny surfaces can reflect the light 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 except for conformance as a Risk Group 2 LIP as defined in IEC 62471-5:Ed. 1.0. For more information see Laser Notice No. 57, dated May 8, 2019.
According to IEC 60825-1:2014 and IEC 62471-5:2015, this projector may be CLASS 1 LASER PRODUCT - RISK GROUP 2 product.

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 into the light beam. The bright light may result in permanent eye damage. (Risk Group 2 of IEC 62471-5:2015).
- No direct exposure to the beam shall be permitted.
- 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 62471-5: 2015, and also make a variance approvals under 21 CFR 1010.4 for RG3 LIP according to Classification and Requirements for Laser Illuminated Projectors (LIPs) (Laser Notice No. 57).

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 light 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 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-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 light beam within the hazard distance (HD).

<table>
<thead>
<tr>
<th>Projection Lens</th>
<th>Throw Ratio</th>
<th>Classification and Requirements for Laser Illuminated Projectors (LIPs)</th>
</tr>
</thead>
</table>
| G LENS (2.90 - 5.50 : 1) | 2.90-5.50  | IEC 62471-5: 2015  
                        |             | IEC 60825-1:2014  
                        |             | CLASS 1 RISK GROUP 3  
                        |             | HD: 3.0 meters         |
Follow the precautions to avoid light intensity hazard.

• NEVER look into the lens! High intensity light beam.
• Permanent eye injury is possible when exposed to the high intensity light beam within the hazard distance.
• Operators shall control access to the light 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 operation.
• 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 exposure 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 benzine, 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: \( t_a = 5 \, ^\circ C \) (41 °F) to 40 °C (104 °F).

• Rated operating humidity: 10% RH to 85% RH (non-condensing). 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.

![Diagram showing projector with dimensions](image1-1)

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

<table>
<thead>
<tr>
<th>Label image</th>
<th>Label description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image2.png" alt="Label image" /></td>
<td>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.</td>
</tr>
</tbody>
</table>
### Light beam related safety labels for G60-W8 series

<table>
<thead>
<tr>
<th>Label image</th>
<th>Label description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>Risk Group 2, IEC60825-1:2014. Do not look into the laser light. The extremely high brightness may cause permanent eye damage.</td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
<td>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 62471-5:Ed.1.0. For more information see Laser Notice No. 57, dated May 8, 2019.</td>
</tr>
</tbody>
</table>

### Light beam related safety labels for G60-W10 series

<table>
<thead>
<tr>
<th>Label image</th>
<th>Label description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td>FDA laser variance (US projectors only)</td>
</tr>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td>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.</td>
</tr>
</tbody>
</table>

### 1.4 Risk Group 3 Safety

#### 1.4.1 General considerations

**Notice on optical radiation from G60 Projector when it becomes Risk Group 3.**

- For RG3, no direct exposure to the beam shall be permitted.
- For RG3, 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.
- This projector has one or several built-in Class 4 laser clusters. Disassembly or modification is very dangerous and should never be attempted.
- 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.

**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.
WARNING: No direct exposure to the beam within the hazard distance shall be permitted, RG3 (Risk Group 3) IEC EN 62471-5:2015

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

PPE (Personal Protective Equipment) description.
A skilled person or service person shall be worn protective clothes and goggles when access to restricted area.
Possible skin or eye damage.
Disconnect power before servicing.

1.4.2 High Brightness precautions: Hazard Distance

<table>
<thead>
<tr>
<th>HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Distance (HD) is the distance measured from the projection lens at which the intensity or the energy per surface unit becomes lower than the applicable exposure limit on the cornea or on the skin. The light beam is considered (to be) unsafe for exposure if the distance from a person to the light source is less than the HD.</td>
</tr>
</tbody>
</table>

Restriction Zone (RZ) based on the HD

The HD depends on the amount of lumens produced by the projector and the type of lens installed. See chapter “General considerations”, page 8.

To protect untrained end users (as cinema visitors, spectators) the installation shall comply with the following installation requirements: Operators shall control access to the beam within the hazard distance or install the product at the height that will prevent spectators' eyes from being in the hazard distance. Radiation levels in excess of the limits will not be permitted at any point less than 2.0 meter (SH) above any surface upon which persons other than operators, performers, or employees are permitted to stand or less than 1.0 meter (SW) lateral separation from any place where such persons are permitted to be. In environments where unrestrained behavior is reasonably foreseeable, the minimum separation height should be greater than or equal to 3.0 meter to prevent potential exposure, for example by an individual sitting on another individual's shoulders, within the HD.

These values are minimum values and are based on the guidance provided in IEC 62471-5:2015 section 6.6.3.5.

The installer and user must understand the risk and apply protective measures based upon the hazard distance as indicated on the label and in the user information. Installation method, separation height, barriers, detection system or other applicable control measure shall prevent hazardous eye access to the radiation within the hazard distance.

For example, projectors that have a HD greater than 1 m and emit light into an uncontrolled area where persons may be present should be positioned in accordance with “the fixed projector installation” parameters, resulting in a HD that does not extend into the audience area unless the beam is at least 2.0 meter above the floor level. In environments where unrestrained behavior is reasonably foreseeable, the minimum separation height should be greater than or equal to 3.0 meter to prevent potential exposure, for example by an individual sitting on another individual's shoulders, within the HD. Sufficiently large separation height may be achieved by mounting the image projector on the ceiling or through the use of physical barriers.
Based on national requirements, no person is allowed to enter the projected beam within the zone between the projection lens and the related hazard distance (HD). This shall be physically impossible by creating sufficient separation height or by placing barriers. The minimum separation height takes into account the surface upon which persons other than operator, performers or employees are permitted to stand.

On Image 1–3 a typical setup is displayed. It must be verified if these minimum requirements are met. If required a restricted zone (RZ) in the theater must be established. This can be done by using physical barrier, like a red rope as illustrated in Image 1–3.

The restricted area sticker can be replaced by a sticker with only the symbol.

**USA market**

For LIPs (Laser Illuminated Projectors) installed in the USA market other restriction zone conditions apply.

LIPs for installation in restrained environment (cinema theaters, business rooms, class rooms, museums ...) shall be installed at height vertically above the floor such that the bottom plane of the hazard distance zone shall be no lower than 2.5 meters above the floor. Horizontal clearance to the hazard distance zone shall be not less than 1 meter. Alternatively, in case the height of the separation barrier for the horizontal clearance is at least 1 meter high then the horizontal clearance (SW) can be reduced to:

- 0 meter if the height of the hazard zone is minimum 2.5 meter.
- 0.1 meter if the height of the hazard zone is minimum 2.4 meter.
- 0.6 meter if the height of the hazard zone is minimum 2.2 meter.

LIPs for installations in unrestrained environment (concerts, ...) shall be installed at a height vertically above the floor such that the bottom plane of the Hazard distance Zone shall be no lower than 3 meters above the
floor. Horizontal clearance to the hazard distance zone shall be not less than 2.5 meters. Any human access horizontally to the Hazard Zone, if applicable, shall be restricted by barriers. If human access is possible in an unsupervised environment, the horizontal or vertical clearances shall be increased to prevent exposure to the hazard distance zone.

The LIP shall be installed by Barco or by a trained and Barco-authorized installer or shall only be transferred to laser light show variance holders. This is applicable for dealers and distributors since they may need to install the LIP (demo install) and/or they transfer (sell, rent, lease) the LIP. Variance holders may currently hold a variance for production of Class IIIB and IV laser light shows and/or for incorporating RG3 LIPs. Laser light show variance can be requested via the FDA online eSubmitter portal or via FDA Form 3147 referencing to Barco’s variance approval xxxx-xx-xxx.

The installation checklist for laser illuminated RG3 projectors must be fully completed after the installation. The installation checklist can be downloaded from the Barco website. The last variance holder in the distribution chain is responsible to maintain the installation checklist and to make it available on request of the FDA. In case Barco is the last variance holder the checklist must be sent to pvg@barco.com.

In addition to temporary installations (e.g.: rental and staging, lease, events …) the following requirements apply:

• Rental companies shall have a laser light show variance because they have direct relationship with the installers of the rented equipment.
• This product shall be located in such a way that all propagating beam paths within the Restriction Zone, and the audience can be directly observed at all times.
• Communication shall be maintained with other personnel assisting in surveillance of the LIP projection.
• In the event of any unsafe condition, immediately terminates (or designate the termination) of LIP projection light.

Install one or more readily accessible controls to immediately terminate LIP projection light. The power input at the projector side is considered as a reliable disconnect device. When required to switch off the projector, disconnect the power cord at the projector side. In case the power input at the projector side is not accessible (e.g. truss 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.

1.4.3 HD for fully enclosed projection systems

<table>
<thead>
<tr>
<th>HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Distance (HD) is the distance measured from the projection lens at which the intensity or the energy per surface unit becomes lower than the applicable exposure limit on the cornea or on the skin. The light beam is considered (to be) unsafe for exposure if the distance from a person to the light source is less than the HD.</td>
</tr>
</tbody>
</table>

Restriction Zone (RZ) based on the HD

The projector is also suitable for rear projection applications; projecting a beam onto a defuse coated projection screen. As displayed in Image 1–4 two areas should be considered: the restricted enclosed projection area (RA) and the observation area (TH).
For this type of setup 3 different HD shall be considered:

- **HD** as discussed in "High Brightness precautions: Hazard Distance", page 15, relevant for intrabeam exposure.
- **HD\_reflection** : the distance that has to be kept restrictive related to the reflected light from the rear projection screen.
- **HD\_diffuse** : the relevant distance to be considered while observing the diffuse surface of the rear projection screen.

As described in "High Brightness precautions: Hazard Distance", page 15, it is mandatory to create a restricted zone within the beam areas closer than any HD. In the enclosed projection area the combination of two restricted zones are relevant: The restricted zone of the projected beam toward the screen; taking into account 1 meter Separation Width (SW) from the beam onward. Combined with the restricted zone related to the rear reflection from the screen (HD\_reflection); also taking into account a 1 meter lateral separation.

The HD\_reflection distance equals 25% of the difference between the determined HD distance and the projection distance to the rear projection screen. To determine the HD distance for the used lens and projector model see chapter “General considerations”, page 8.

\[
\text{HD\_reflection} = 25\% \times (\text{HD} - \text{PD})
\]

The light emitted from the screen within the observation shall never exceed the RG2 exposure limit, determined at 10 cm. The HD\_diffuse can be neglected if the measured light at the screen surface is below 5000 cd/m² or 15000 LUX.
Product overview

2.1 Main unit
2.2 Input/Output (I/O) Panel
2.3 Control panel
2.4 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
4  Input/Output (I/O) Panel
5  Remote receiver (Top)
6  Adjustable feet
7  Control panel
8  Power socket (AC100-240V, 50-60Hz)
9  Power switch
2.2 Input/Output (I/O) Panel

Input and output ports location

1. 3D SYNC IN
2. HDBaseT connector
3. HDMI connector
4. DVI-D input connector
5. VGA-IN connector
6. 3D-SDI connector
7. 3D SYNC OUT
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

![Control panel diagram]

### Button function

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER</td>
<td>Turn the projector on or off.</td>
</tr>
<tr>
<td>LENS</td>
<td>Adjust lens position.</td>
</tr>
<tr>
<td>MENU</td>
<td>Show the main menu on screen.</td>
</tr>
<tr>
<td>EXIT</td>
<td>Return to previous menu or exit menu if at top level.</td>
</tr>
<tr>
<td>ENTER</td>
<td>Confirm the settings.</td>
</tr>
<tr>
<td>INPUT</td>
<td>Select an input source.</td>
</tr>
<tr>
<td>ZOOM</td>
<td>Adjust the image size.</td>
</tr>
<tr>
<td>FOCUS</td>
<td>Adjust the image focus.</td>
</tr>
<tr>
<td>LEFT</td>
<td>Navigate left through the menu.</td>
</tr>
<tr>
<td>UP</td>
<td>Navigate up through the menu.</td>
</tr>
<tr>
<td>DOWN</td>
<td>Navigate down through the menu.</td>
</tr>
<tr>
<td>RIGHT</td>
<td>Navigate right through the menu.</td>
</tr>
</tbody>
</table>
### 2.4 Remote Control Unit (RCU)

#### Button identification

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

**Setting the address**

Before the RCU can be used, the projector address must be entered in the RCU.

To enter the address, handle as follow:

1. Press for at least 3 seconds on **Hot Key** (reference 23).
2. Enter the address with the numeric keys (reference 3). Always enter 2 digits. E.g. for address 2, enter 02.

Address 00 = broadcast address

Projector address can be set in **Options → Remote settings → Projector address**.
Powering On/Off the projector

3

3.1 Powering On the projector ............................................................... 26
3.2 Powering Off the Projector ............................................................. 26

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

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

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

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.
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.
Powering On/Off the projector
4. User controls

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4.9 Controlling the projector over network ............................................................................................. 44
4.10 Using the web control center ............................................................................................................ 45
4.11 Using RS232 command by Telnet ...................................................................................................... 47
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.
4.2 Picture Menu

Overview

<table>
<thead>
<tr>
<th>Display Mode</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall Color</td>
<td>White</td>
</tr>
<tr>
<td>Brightness</td>
<td>50</td>
</tr>
<tr>
<td>Contrast</td>
<td>50</td>
</tr>
<tr>
<td>Sharpness</td>
<td>5</td>
</tr>
<tr>
<td>Color</td>
<td>50</td>
</tr>
<tr>
<td>Tint</td>
<td>50</td>
</tr>
<tr>
<td>Gamma</td>
<td>Video</td>
</tr>
<tr>
<td>White Peaking</td>
<td>50</td>
</tr>
<tr>
<td>Color Temp</td>
<td>Normal</td>
</tr>
<tr>
<td>Color Wheel Speed</td>
<td>3x</td>
</tr>
<tr>
<td>HSG Adjustmen</td>
<td></td>
</tr>
<tr>
<td>Contrast Enh</td>
<td>Off</td>
</tr>
<tr>
<td>Color Space</td>
<td>Auto</td>
</tr>
<tr>
<td>Save to User</td>
<td></td>
</tr>
</tbody>
</table>

**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 and blue) and secondary colors (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.

<table>
<thead>
<tr>
<th>HSG Adjustment</th>
<th>Red</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hue</td>
<td>0</td>
</tr>
<tr>
<td>Saturation</td>
<td>50</td>
</tr>
<tr>
<td>Gain</td>
<td>15</td>
</tr>
</tbody>
</table>

- **Colors**: Select the 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.
User controls

- **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

<table>
<thead>
<tr>
<th>Screen</th>
<th>Aspect Ratio</th>
<th>Auto</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pixel Phase</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Pixel Track</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Horz Position</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Vert Position</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Digital Horz Zoom</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Digital Vert Zoom</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Digital Horz Shift</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Digital Vert Shift</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Ceiling Mount</td>
<td>Auto</td>
<td></td>
</tr>
<tr>
<td>Rear Projection</td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td>Geometric Correction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIP-PBP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Source Key</td>
<td>Change Sources</td>
<td></td>
</tr>
<tr>
<td>Auto Image</td>
<td>Wide</td>
<td></td>
</tr>
<tr>
<td>Auto HDMI Switch</td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td>Projection Native Timing</td>
<td>1920x1200 60Hz</td>
<td></td>
</tr>
</tbody>
</table>

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 helps to improve the quality of the image that 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.

<table>
<thead>
<tr>
<th>Geometric Correction</th>
<th>0</th>
<th>0</th>
<th>Green</th>
<th>Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. Keystone</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V. Keystone</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 - corner</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grid Color</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reset</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC Mode</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **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.

- **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.

- **4 - corner**: 4-Corner: Position the 4 corners of the image to have it fit a specific projection surface. This 4 corner function works with each aspect ratio setting (4:3, 16:9, and 16:10).
User controls

- **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 57.

### PIP/PBP

<table>
<thead>
<tr>
<th>PIP / PBP Enable</th>
<th>Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Source</td>
<td>VGA</td>
</tr>
<tr>
<td>Sub Source</td>
<td>VGA</td>
</tr>
<tr>
<td>Layout</td>
<td>Top Left</td>
</tr>
<tr>
<td>Size</td>
<td>Small</td>
</tr>
<tr>
<td>Swap</td>
<td></td>
</tr>
</tbody>
</table>

- **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:

<table>
<thead>
<tr>
<th>PIP Layout</th>
<th>PIP Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Small</td>
</tr>
<tr>
<td>PIP, Bottom Right</td>
<td><img src="image" alt="Pallet" /></td>
</tr>
<tr>
<td>PIP, Bottom Left</td>
<td><img src="image" alt="Pallet" /></td>
</tr>
</tbody>
</table>
### User controls

<table>
<thead>
<tr>
<th>PIP Layout</th>
<th>PIP Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Small</td>
</tr>
<tr>
<td>PIP, Top Left</td>
<td><img src="image.png" alt="P" /></td>
</tr>
<tr>
<td>PIP, Top Right</td>
<td><img src="image.png" alt="P" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PBP Layout</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBP, Main Left</td>
</tr>
<tr>
<td>PBP, Main Right</td>
</tr>
</tbody>
</table>

- **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 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.

#### Auto HDMI switch

Allows automatically switching between HDMI1 and HDMI2. HDMI2 has a higher priority than HDMI1.

When turned **On**, the input source is set fixed to HDMI. The functions **PIP/PBP** and **Auto Source** are disabled.

#### Projection Native Timing

Allow users to change the projection native timing.
4.4 Settings Menu

Overview

<table>
<thead>
<tr>
<th>Settings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Language</strong></td>
<td>English</td>
</tr>
<tr>
<td><strong>Menu Location</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Standby Power Mode</strong></td>
<td>Communication Mode</td>
</tr>
<tr>
<td><strong>Test Pattern</strong></td>
<td>Checkerboard</td>
</tr>
<tr>
<td><strong>Direct Power On</strong></td>
<td>Off</td>
</tr>
<tr>
<td><strong>Source in Power On</strong></td>
<td>Off</td>
</tr>
<tr>
<td><strong>Hot-Key Settings</strong></td>
<td>Blank Screen</td>
</tr>
<tr>
<td><strong>Reset to Default</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Service</strong></td>
<td></td>
</tr>
</tbody>
</table>

Image 4–12

**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 positions 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

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

<table>
<thead>
<tr>
<th>Options</th>
<th>Background Color</th>
<th>Auto Shutdown</th>
<th>Sleep Timer</th>
<th>Lens Function</th>
<th>High Altitude</th>
<th>PIN</th>
<th>Remote Settings</th>
<th>Show message</th>
<th>LED settings</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logo</td>
<td></td>
<td>20</td>
<td>0</td>
<td></td>
<td>Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.
• **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 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 projector. 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 50.

• **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

**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 assembles 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

<table>
<thead>
<tr>
<th>LAN</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Network</td>
<td></td>
</tr>
<tr>
<td>Serial Port Baud Rate</td>
<td>115200</td>
</tr>
<tr>
<td>Serial Port Echo</td>
<td>On</td>
</tr>
<tr>
<td>Serial Port Path</td>
<td>RS232</td>
</tr>
</tbody>
</table>

**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.

4.9 Controlling the projector over network

About controlling
This projector can be controlled remotely by a computer or other external devices through network connection. It allows the user to control one or more projectors from a distant control center, such as powering the projector on or off, and adjusting the image brightness or contrast. This projector is compatible with following control devices and commands.

- **Crestron**: The projector can be controlled with Crestron controller and related software, for example Room-View®. (Port: 41794)
  
  For more information, please visit [http://www.crestron.com](http://www.crestron.com).

- **Extron**: The projector can be controlled with Extron devices. (Port: 3023)
  
  For more information, please visit [http://www.extron.com](http://www.extron.com).

- **PJ Link**: The projector can be controlled with PJLink v1.0 commands. (Port: 4352)
  
  For more information, please visit [http://pjlink.jbmia.or.jp/english](http://pjlink.jbmia.or.jp/english).

- **AMX Device Discovery**: The projector can be controlled with AMX devices. (Port: 9131)

---

1. Crestron is a registered trademark of Crestron Electronics, Inc. of the United States.
2. Extron is a registered trademark of Extron Electronics, Inc. of the United States.
3. PJLink applied for trademark and logo registration in Japan, the United States of America, and other countries by JBMIA
4. AMX is a registered trademark of AMX LLC of the United States.
For more information, please visit http://www.amx.com.

- **Telnet**: Support using RS232 commands via Telnet connection. (Port: 23)
  For more information, see “Using RS232 command by Telnet”, page 47.
- **HTTP**: The projector can be controlled with a web page control center. (Port: 80)
  For more information, see “Using the web control center”, page 45.

For more information about the various types of external devices which can be connected to the LAN / RJ45 port and remotely control the projector, as well as the supported commands for these external devices, please contact the Support-Service directly.

### 4.10 Using the web control center

**About web control center**

Web control panel allows the user to configure various projector settings using a web browser from any personal computer or mobile devices.

**System requirement**

To use the web control panel, make sure your devices and software meet the minimum system requirements.

- RJ45 cable (CAT-5e) or wireless dongle
- PC, laptop, mobile phone, or tablet installed with a web browser
- Compatible web browsers:
  - Internet Explorer 11 or higher version
  - Microsoft Edge 40 or higher version
  - Firefox 57 or higher version
  - Chrome 63 or higher version
  - Safari 11 or higher version
- Operating system of the mobile devices:
  - iOS 10 or higher version
  - Android 5 or higher version

**Overview of the web control center**

Configure the projector settings using web browser.

![Image of web control center interface]

Image 4–19

1. Menu
2. Settings
Menu | Submenu | Description
--- | --- | ---
HOME | Information | View the projector information and firmware version details.

Main
- Select the projector input sources.
- Enable or disable the projector power, shutter, and messages.

Network
- Configure the LAN settings.
- Set up the Crestron Control System (CCS) connection.

Upgrade | Upgrade | Upgrade the projector firmware.

MENU | Picture | Adjust the basic image settings, such as brightness and contrast.

Settings
- Enable ceiling mount projection and set up the standby mode and adjust lens settings (shift, zoom, focus)

Light Source
- Select a light source mode and set the power level for constant power.

Test Pattern | Select a test pattern.

Accessing the web control panel
When network is available, connect the projector and the computer to the same network. Use the projector address as the web URL to open the web control panel in a browser.

1. Check the projector address using the OSD menu.
   - In a wired network, select Network > LAN > IP Address. Make sure DHCP is enabled.
   - In a wireless network, select Network > WLAN > Gateway.

2. Open a web browser and type the projector address in the address bar.
   The web page redirects to the web control panel.

   When network is not available, see Directly connect the projector to a computer.

Directly connect the projector to a computer
When network is not available, connect the projector to the computer directly using a RJ-45 cable, and configure the network settings manually.

1. Assign IP address to the projector
   - From the OSD menu, select Network > LAN.
   - Turn off DHCP, and manually set the projector’s IP Address, Subnet Mask, and Gateway.
   - Press Enter to confirm the settings.
2. Assign IP address to the computer
   • Set the Default Gateway and Subnet Mask of the computer to match the projector.
   • Set the IP address of the computer to match the first three numbers of the projector.
     For example, if the projector IP address is 192.168.000.100, set the computer IP address to
     192.168.000. xxx, where xxx is not 100.

3. Open a web browser and type the projector address in the address bar.
   The web page redirects to the web control panel.

4.11 Using RS232 command by Telnet

How to use
This projector supports using RS232 commands through Telnet connection.
1. Set up direct connection between the projector and computer. See block Directly connect the projector to a
   computer, in “Controlling the projector over network”, page 44
2. Disable the firewall on the computer.
3. Open the command dialogue on the computer. For Windows 7 operating system, select Start > All
   Programs > Accessories > Command Prompt.
4. Input the command “telnet ttt.xxx.yyy.zzz 23”.
   Replace “ttt.xxx.yyy.zzz” with the projector IP address.
5. Press Enter on the computer keyboard.

Specification for RS232 by Telnet
• Telnet: TCP
• Telnet port: 23 (contact service team for more details)
• Telnet utility: Windows “TELNET.exe” (console mode).
• Disconnection for RS232-by-Telnet control normally: Close
• Below are the limitations for using Windows Telnet utility directly after TELNET connection is ready:
  - There is less than 50 bytes for successive network payload for Telnet-Control application.
  - There is less than 26 bytes for one complete RS232 command for Telnet-Control.
  - Minimum delay for next RS232 command must be more than 200 (ms).
User controls
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.
## 5.1 LED indication chart

### Overview

![Diagram of LED indications]

Image 5–1

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

### Explanation

<table>
<thead>
<tr>
<th>Message</th>
<th>Light LED</th>
<th>Status LED</th>
<th>AV Mute LED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Green</td>
<td>Orange</td>
<td>Red</td>
</tr>
<tr>
<td>Standby State</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power on (Warm up)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power on &amp; Laser diode on</td>
<td>Steady</td>
<td>Steady</td>
<td>Steady</td>
</tr>
<tr>
<td>AV mute is off (Image is displayed)</td>
<td>Steady</td>
<td>Steady</td>
<td>Steady</td>
</tr>
<tr>
<td>AV mute is on (Image is black)</td>
<td>Steady</td>
<td>Steady</td>
<td>Steady</td>
</tr>
<tr>
<td>Projector communication</td>
<td>Steady</td>
<td>Flashing</td>
<td>Steady</td>
</tr>
<tr>
<td>Firmware upgrade</td>
<td>Flashing</td>
<td>Flashing</td>
<td></td>
</tr>
<tr>
<td>Laser diode time has expired</td>
<td>Steady</td>
<td>Flashing</td>
<td></td>
</tr>
<tr>
<td>Unit loses over 60% initial luminance</td>
<td>Flashing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Error (Over temperature)</td>
<td></td>
<td></td>
<td>Steady</td>
</tr>
<tr>
<td>Error (Fan failure)</td>
<td></td>
<td></td>
<td>Flashing</td>
</tr>
</tbody>
</table>

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]

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Key combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acer</td>
<td>[Fn]+[F5]</td>
</tr>
<tr>
<td>Asus</td>
<td>[Fn]+[F8]</td>
</tr>
<tr>
<td>Dell</td>
<td>[Fn]+[F8]</td>
</tr>
<tr>
<td>Gateway</td>
<td>[Fn]+[F4]</td>
</tr>
<tr>
<td>BM/Lenovo</td>
<td>[Fn]+[F7]</td>
</tr>
<tr>
<td>HP/Compaq</td>
<td>[Fn]+[F4]</td>
</tr>
<tr>
<td>NEC</td>
<td>[Fn]+[F3]</td>
</tr>
<tr>
<td>Toshiba</td>
<td>Fns+[F5]</td>
</tr>
<tr>
<td>Mac Apple</td>
<td>System Preference &gt; Display &gt; Arrangement &gt; Mirror display</td>
</tr>
</tbody>
</table>

• 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 34.

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.
**Troubleshooting**

**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 ±30° (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 40.
Specifications

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# A.1 Product specification of the G60-W7

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Projector type</strong></td>
<td>Single chip DLP laser phosphor projector</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>1,920 x 1,200 (WUXGA)</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>6,300 ANSI lumens; 6,600 center lumens; 7,000 ISO lumens</td>
</tr>
<tr>
<td><strong>Contrast ratio</strong></td>
<td>1,200:1 sequential; 6,000:1 dynamic; Extreme black: 100,000:1</td>
</tr>
<tr>
<td><strong>Brightness uniformity</strong></td>
<td>85%</td>
</tr>
<tr>
<td><strong>Aspect ratio</strong></td>
<td>16:10</td>
</tr>
<tr>
<td><strong>Lens type</strong></td>
<td>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</td>
</tr>
<tr>
<td><strong>Optical lens shift</strong></td>
<td>Vertical up to 100%, depending on lens</td>
</tr>
<tr>
<td></td>
<td>Horizontal up to 30%, depending on lens</td>
</tr>
<tr>
<td></td>
<td>Motorized zoom and focus</td>
</tr>
<tr>
<td></td>
<td>Motorized lens shift</td>
</tr>
<tr>
<td><strong>Color correction</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>CLO (constant light output)</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Light source</strong></td>
<td>Laser phosphor</td>
</tr>
<tr>
<td><strong>Light source lifetime</strong></td>
<td>Up to 20,000hrs</td>
</tr>
<tr>
<td><strong>Sealed DLP™ core</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Orientation</strong></td>
<td>360° rotation, no restrictions</td>
</tr>
<tr>
<td><strong>3D</strong></td>
<td>Active stereoscopic 3D</td>
</tr>
<tr>
<td><strong>Image processing</strong></td>
<td>Embedded warp &amp; blend possible via Ptoolset</td>
</tr>
<tr>
<td><strong>Keystone correction</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Inputs</strong></td>
<td>2x HDMI 1.4 / DVI-D / HDBaseT / 3G-SDI / VGA (D-Sub 15 pin) / RJ 45 Ethernet / RS232 in</td>
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<tr>
<td><strong>Input resolutions</strong></td>
<td>Up to 1,920 x 1,200 @ 60Hz refresh rates:</td>
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<tr>
<td></td>
<td>24Hz to 120Hz for 720p (1280x720) and 24Hz to 60Hz for WUXGA (1920x1200)</td>
</tr>
<tr>
<td><strong>Software tools</strong></td>
<td>Projector Toolset</td>
</tr>
<tr>
<td><strong>Control</strong></td>
<td>IR, RS232, RJ45, 3.5mm phone jack for wired remote</td>
</tr>
<tr>
<td><strong>Network connection</strong></td>
<td>10/100 Ethernet, RJ45</td>
</tr>
<tr>
<td><strong>Power requirements</strong></td>
<td>100-240V / 50-60Hz</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>520W nominal, 600W maximum</td>
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<tr>
<td><strong>BTU per hour</strong></td>
<td>1,780 BTU/h nominal; 2,050 BTU/h maximum</td>
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<tr>
<td><strong>Standby power</strong></td>
<td>less than 0.5W</td>
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<tr>
<td><strong>Noise level (typical at 25°C/77°F)</strong></td>
<td>36dB(A) - 40dB(A) depending on the used mode</td>
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### A.2 Product specification of the G60-W8

#### Specifications

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<tr>
<th>Specification</th>
<th>Value</th>
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<tr>
<td><strong>Projector type</strong></td>
<td>Single chip DLP laser phosphor projector</td>
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<tr>
<td><strong>Resolution</strong></td>
<td>1,920 x 1,200 (WUXGA)</td>
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<tr>
<td><strong>Brightness</strong></td>
<td>7,300 ANSI lumens 7,700 center lumens 8,200 ISO lumens</td>
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<tr>
<td><strong>Contrast ratio</strong></td>
<td>1,200:1 sequential; 6,000:1 dynamic; Extreme black: 100,000:1</td>
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<tr>
<td><strong>Brightness uniformity</strong></td>
<td>85%</td>
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<tr>
<td><strong>Aspect ratio</strong></td>
<td>16:10</td>
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<tr>
<td><strong>Lens type</strong></td>
<td>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</td>
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<tr>
<td><strong>Optical lens shift</strong></td>
<td>Vertical up to 100%, depending on lens</td>
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<tr>
<td><strong>Color correction</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>CLO (constant light output)</strong></td>
<td>Yes</td>
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<tr>
<td><strong>Light source</strong></td>
<td>Laser phosphor</td>
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<tr>
<td><strong>Light source lifetime</strong></td>
<td>Up to 20,000hrs</td>
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<tr>
<td><strong>Sealed DLP™ core</strong></td>
<td>Yes</td>
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<tr>
<td><strong>Orientation</strong></td>
<td>360° rotation, no restrictions</td>
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<tr>
<td><strong>3D</strong></td>
<td>Active stereoscopic 3D</td>
</tr>
<tr>
<td><strong>Image processing</strong></td>
<td>Embedded warp &amp; blend possible via Ptoolset</td>
</tr>
<tr>
<td><strong>Keystone correction</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Inputs</strong></td>
<td>2x HDMI 1.4 / DVI-D / HDBaseT / 3G-SDI / VGA (D-Sub 15 pin) / RJ 45 Ethernet / RS232 in</td>
</tr>
<tr>
<td><strong>Input resolutions</strong></td>
<td>Up to 1,920 x 1,200 @ 60Hz refresh rates:</td>
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</tbody>
</table>
### Specifications

| **24Hz to 120Hz for 720p (1280x720) and 24Hz to 60Hz for WUXGA (1920x1200)** |
| **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**  | less than 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**  | 9,000 ANSI lumens 9,500 center lumens 10,200 ISO 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**  | Vertical up to 100%, depending on lens Horizontal up to 30%, depending on lens Motorized zoom and focus Motorized lens 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
- refresh rates:
  - 24Hz to 120Hz for 720p (1280x720) and 24Hz to 60Hz for WUXGA (1920x1200)

### 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
- less than 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

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<th>Resolution</th>
<th>Frame rate (Hz)</th>
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<th>HDBaseT</th>
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**CAUTION:** PIP/PBP does not support 3D input.

#### A.5 Dimensions of the G60

**CAUTION:** Avoid installing the projector near a heat source.

**Front view**

![Dimensions of the G60](image)
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

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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：“电子信息系统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”.

<table>
<thead>
<tr>
<th>零件项目(名称)</th>
<th>有毒有害物质或元素</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component name</td>
<td>Hazardous substances and elements</td>
</tr>
<tr>
<td></td>
<td>铅 (Pb)</td>
</tr>
<tr>
<td>外壳 Shell</td>
<td>X</td>
</tr>
<tr>
<td>主板 Motherboard</td>
<td>X</td>
</tr>
<tr>
<td>引擎模块 Engine module</td>
<td>X</td>
</tr>
<tr>
<td>雷射光源模组 Laser light source module</td>
<td>X</td>
</tr>
<tr>
<td>风扇 Fan</td>
<td>X</td>
</tr>
<tr>
<td>铁件 Iron frame</td>
<td>X</td>
</tr>
<tr>
<td>线材 Wire</td>
<td>X</td>
</tr>
<tr>
<td>遥控器 Remote control</td>
<td>X</td>
</tr>
<tr>
<td>包装 Package</td>
<td>O</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>単元</th>
<th>鉛 (Pb)</th>
<th>汞 (Hg)</th>
<th>鎘 (Cd)</th>
<th>六價鉻 (Cr6+)</th>
<th>多溴聯苯 (PBB)</th>
<th>多溴二苯醚 (PBDE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>塑膠外殼</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
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<td>〇</td>
<td>〇</td>
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<tr>
<td>Plastic shell</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>電源供應器</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>Power supply</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>印刷電路板</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>Printed circuit board</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>鋼緣墊片</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>Insulating gasket</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>光學鏡片</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>Optical lenses</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>雷射模組</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>Laser module</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>風扇模組</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
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<td>〇</td>
<td>〇</td>
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<tr>
<td>Fan module</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>鐵件</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>Iron frame</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>線材</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>wire (interlock switch/power cord)</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>喇叭</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>Speaker</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>馬達</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>Motor</td>
<td>—</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
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<td>〇</td>
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<tr>
<td>自復式保險絲</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>Resettable fuse (polyswitch)</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
<td>〇</td>
</tr>
<tr>
<td>Unit</td>
<td>単元</td>
<td>鉛 (Pb)</td>
<td>汞 (Hg)</td>
<td>鎘 (Cd)</td>
<td>六價鉻 (Cr6+)</td>
<td>多溴聯苯 (PBB)</td>
</tr>
<tr>
<td>------</td>
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<td>--------</td>
<td>--------</td>
<td>--------</td>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>配件 (如:遙控器等)</td>
<td>Accessories (remote control, etc.)</td>
<td>—</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
</tbody>
</table>

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.

備考2. "〇" 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: "〇" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

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.

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](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.
Environmental information
Glossary

**HD**
Hazard Distance (HD) is the distance measured from the projection lens at which the intensity or the energy per surface unit becomes lower than the applicable exposure limit on the cornea or on the skin. The light beam is considered (to be) unsafe for exposure if the distance from a person to the light source is less than the HD.
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