RLM W6

Safety manual



Barco nv Media & Entertainment Division Noordlaan 5, B-8520 Kuurne Phone: +32 56.36.89.70 Fax: +32 56.36.883.86 E-mail: sales.events@barco.com Visit us at the web: www.barco.com

1. SAFETY

1.1 General

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Personal protection

Take care of the following warnings and cautions:

!	WARNING: Ensure you understand and follow all the safety guidelines, safety instructions, warnings and cautions mentioned in this manual.
2	WARNING: Be aware of suspended loads.
	WARNING: Wear a hard hat to reduce the risk of personal injury.
*	WARNING: Be careful while working with heavy loads.
	WARNING: Mind your fingers while working with heavy loads.
	CAUTION: High pressure lamp may explode if improperly handled.

1.2 Important safety instructions

To prevent the risk of electrical shock

- This product should be operated from a mono phase AC power source. Power input voltage range must be between 110-240 V,8.3A 50/60Hz
- **Warning:** This apparatus must be grounded (earthed) via the supplied 3 conductor AC power cable. Mount a plug to the delivered power cord but take care of the local regulations about power cords and power plugs. 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.
- If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord does not exceed the extension cord ampere rating.
- 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.
- 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.
- Never spill liquid of any kind on the product. Should any liquid or solid object fall into the cabinet, unplug the set and have it checked by qualified service personnel before resuming operations.
- 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 reduce the lamp heat of the projector, switch the projector first to standby and let the projector lamp cool down for at least 5 minutes. Then the device may be disconnected from the power outlet.
- Isolated electrically before re-lamping. Caution : hot lamps.
- The customer should never attempt to disassemble the lamp casing. See "Recycling guidelines", page 4 for more information about handling a used lamp.
- To prevent injury and physical damage, always read this manual and all labels on the system before inserting the lamp casing, connecting to the wall outlet or adjusting the projector.
- To prevent injury, take note of the weight of the projector. Minimum 2 persons are needed to lift up the device. No twist is allowed.
- To prevent injury, ensure that the lens and all cover plates are correctly installed. See installation procedures.
- Warning: high intensity light beam. NEVER look into the lens ! High luminance could result in injury to the eye.
- · Before attempting to remove any of the projectors covers, you must disconnect from the wall outlet.
- When performing setup work to a ceiling mounted projector, to prevent injury caused by falling objects or the system, set out a keep out area.
- Consult a professional structural engineer prior to suspending the projector from a structure not intended for that use. Always ensure that the working load limit of the structure can handle the load of the projector.
- When required to switch off the projector, to access parts inside, always disconnect the power cord from the power net.
- 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.
- When mounting the projector to the ceiling or to a rigging system, always mount a security cable. Before mounting the security cable, inspect the cable. Do not use when visible damage is detected.
 Stretch the security cable completely. If necessary, turn the security cable a few times around the truss before closing the connection so that the cable is stretched as much as possible.
 Connector may not be mounted under bending stress.
- It is hazardous to operate without lens or shield. Shields, lenses or utra-vilolet screens shall be changed if they have become visible damaged to such an extent that their effectiveness is impaired. For example by cracks or deep scratches.
- Mercury Vapor Warnings: Keep the following warnings in mind when using the projector. The lamp used in the projector contains mercury. In case of a lamp rupture, explosion there will be a mercury vapor emission. In order to minimize the potential risk of inhaling mercury vapors:
 - Ensure the projector is installed only in ventilated rooms.
 - Replace the lamp module before the end of its operational life.
 - Promptly ventilate the room after a lamp rupture, explosion has occurred, evacuate the room (particularly in case of a pregnant woman).
 - Seek medical attention if unusual health conditions occur after a lamp rupture, explosion, such as headache, fatigue, shortness of breath, chest-tightening coughing or nausea.
- 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.

To prevent device damage

- The RLM W6 has been designed for use with a specific lamp type. See installation instructions for its correct lamp type.
- If the air filters are not regularly replaced, the air flow inside the projector could be disrupted, causing overheating. Overheating may lead to the projector shutting down during operation.
- In order to ensure that correct airflow is maintained, and that the projector complies with electromagnetic compatibility (EMC) requirements, and for safety requirements, it should always be operated with all of it's 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
 projector should not be placed in a built-in installation or enclosure unless proper ventilation is provided.
- The projector must always be mounted in a manner which ensures free flow of air into its air inlets and unimpeded evacuation of the hot air exhausted from its outlets. Heat sensitive materials should not be placed in the path of the exhausted air. Leave at least a free safety area of 2 meter (80") around the projector.
- 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 technicians.
- Consult a professional structural engineer when you have the intention to use this projector as ceiling mounted projector. Always ensure the working load limit of the structure supporting the projector.
- Moving head. Make sure the head cannot touch any other materials.
- 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 a RLM W6 in direct sun light. Sun light on the lens can severly damage the Digital Mirror Devices[™] in which case there is a loss of warranty.

- Save the original 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.
- Never use the device when not all four lamps are installed.
- Rated maximum ambient temperature, t_a = 40 °C (104°F)..
- The lamp shall be replaced if it has become damaged or thermally deformed.

To prevent battery explosion

- Danger of explosion if battery is incorrectly installed.
- Replace only with the same or equivalent type recommended by the manufacturer.
- Dispose of used batteries according to the manufacturer's instruction.

To prevent fire hazard

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 - Unternal fuses provided. Contact a service technician to replace. Only replace with the same type and value. Warning "Risk of fire". Do not place flammable or combustible materials near the device !
- 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.
- Do not cover the projector or the lens with any material while the projector is in operation.
- 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.
- This product 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.
- The operation room must be well ventilated or cooled in order to avoid build up of heat.

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.
- Fence off a restricted area of at least 3 meters around the projector using an eye-catching fence and "KEEP OUT" signs. This to prevent unauthorized persons coming near the projector during servicing.
- Unplug this product from the wall outlet 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. 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 device, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- Lamp replacement: high pressure lamp may explode if improperly handled.

1.3 Recycling guidelines

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WARNING: Do not break or crush lamps because this may pose health and environmental risks when mercury vapors are released.



CAUTION: To avoid breaking the lamps, repack carefully when storing and transporting them.



CAUTION: Lamps may not be disposed as normal household trash.

Contact your local waste disposal facility for information on the recycling program for HID (High Intensity Discharge) lamps in your area.



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Disposal options for mercury-containing lamps

- Recycle through a municipal or solid waste district household hazardous waste collection program in accordance with local regulations.
- Direct shipment to lamp recycler
- Shipment through a hazardous waste transporter