

Encore3

Event Master



Safety manual

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1 Safety

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About this document

Read this document attentively. It contains important information to prevent personal injury while installing and using the Encore3 product. Furthermore, it includes several cautions to prevent damage to the unit. Ensure that all safety guidelines, safety instructions and warnings mentioned in this chapter are understood and followed before installing the Encore3 product.

Clarification of the term “Encore3” used in this document

When referring in this document to the term “Encore3” means that the content is applicable for following Barco products:

- Encore3

Model certification name

- NGS-4U-V3



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 optimal 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.
- All warnings on the unit and in its documentation manuals must be adhered to.
- Installation and preliminary adjustments must be performed by qualified Barco personnel or by authorized Barco service dealers.
- This product contains no user serviceable parts. Attempts to modify/replace mechanics or electronics inside the housing or compartments will violate any warranties and may be hazardous.
- All instructions for operating and use of this equipment must be followed precisely.
- All local installation codes must be adhered to.

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.

1.2 Important safety instructions

To prevent risk, personal injury and Encore3 damage

Please read this chapter carefully. It contains important information to prevent personal injury while installing the Encore3. Furthermore, it includes several cautions to prevent damage to the Encore3. Ensure that you understand and follow all safety guidelines, safety instructions and warnings mentioned in this chapter before installing the Encore3. After this chapter, additional “warnings” and “cautions” are given depending on the

installation procedure. Read and follow these “warnings” and “cautions” as well.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Only trained technicians may install the Encore3.
- Installation of the Encore3 must be done in a dust free area.
- Only use attachments/accessories specified by the manufacturer.
- CAUTION: Troubleshooting must be performed by a trained technician. To reduce the risk of electrical shock, do not attempt to service this equipment unless you are qualified to do so.
- Refer all servicing to qualified service personnel. Servicing is required when the system has been damaged in any way, such as liquid has been spilled or objects have fallen into the system, or the system has been exposed to rain or moisture, does not operate normally, or has been dropped.
- FRAGILE: The Encore3 is fragile. Handle the Encore3 with care at all times.
- To prevent injury, take note: by law, minimum 2 persons are required to carry the Encore3.
- Do not remove covers or panels during normal operation. Removal of the top cover will expose dangerous voltages. To avoid personal injury, do not remove the top cover. Do not operate the unit without the cover installed.
- During maintenance operations, always switch off the Encore3 and unplug power cords before removing one of the covers, unless otherwise stated.
- Always wear a wrist band which is connected to the ground while handling the ESD sensitive parts.
- Wear insulating gloves during the execution of the installation and maintenance actions to avoid short-circuit.
- Be careful never to drop anything into the Encore3 assembly during the procedure. The fall of a tool or a spare part in the Encore3 could have catastrophic consequences when you will restart the system.
- Be careful to always follow strict procedures during maintenance operations (spare parts replacement).
- This product is intended to operate from a power source that will not apply more than 230 volts rms between the supply conductors or between both supply conductor and ground. A protective ground connection by way of grounding conductor in the power cord is essential for safe operation.
- This product is grounded through the grounding conductor of the power cord. To avoid electrical shock, plug the power cord into a properly wired receptacle before connecting to the product input or output terminals. A protective-ground connection by way of the grounding conductor in the power cord is essential for safe operation.
- Use only the power cord and connector specified for your product. Use only a power cord that is in good condition. Refer cord and connector changes to qualified service personnel.
- To avoid fire hazard, use only the fuse having identical type, voltage rating, and current rating characteristics. Refer fuse replacement to qualified service personnel.
- Replace spare parts only with the same or equivalent type recommended by the manufacturer.
- 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.
- Rated maximum ambient operating temperature, $t_a = 40^\circ\text{C}$ (104°F).
- To avoid explosion, do not operate this product in an explosive atmosphere.

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 unit and cancellation of the warranty.
- 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 unit, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Malfunction unit

Remove all power from the product 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.

1.3 Environmental condition check

Environment condition check

The unit must always be mounted in a manner which ensures both air inlets and outlets are free. For installations in environments where the device is subject to excessive dust, it is highly advisable to take measures to prevent the dust from reaching the unit. If this is not a feasible, then the unit should be relocated to a different dust-free location.

It is the customer's responsibility to ensure at all times that the device is protected from the harmful effects of hostile airborne particles in the environment of the device. The manufacturer reserves the right to refuse repair if a device has been subject to negligence, abandon or improper use.

Environment conditions

Table below summarizes the physical environment in which the Encore3 may be safely operated or stored.

Environment	Operating	Non-Operating
Ambient Temperature	0°C (32°F) to 40°C (104°F)	-10°C (14°F) to 60°C (140°F)
Humidity	5% to 85% RH Non-condensed	0% to 95% RH Non-Condensed
Altitude	-60 (-197Ft) to 3000m (9843Ft)	-60 m (-197Ft) to 10000m (32810Ft)
Air cleanliness	Clean office environment ¹	n.a.
Air clearance	Air outlets: minimum 60mm (2.36in) Air inlets: minimum 60mm (2.36in)	n.a.

Environment

Do not install the device in a site near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust or humidity. Be aware that room heat rises to the ceiling; check that temperature near the installation site is not excessive.

1.4 Plug types Encore3

AC Power cord with NEMA 5/15 plug up to 13 A

The wires of the power cord are colored in accordance with the following code:

- Green or yellow + green: Earth (Ground)
- Blue or white: Neutral
- Brown or black: Line (Live)



Power cord with GB 2099 plug up to 10 A

The wires of the power cord are colored in accordance with the following code:

- Green + yellow: Earth (Ground)
- Blue: Neutral
- Brown: Line (Live)



AC Power cord (mains lead) with CEE 7 plug up to 10 A

The wires of the power cord are colored in accordance with the following code:

- Green + yellow: Earth (Ground)
- Blue: Neutral
- Brown: Line (Live)



1.5 Compliance

UK Compliance



This product is fit for use in the UK.

Authorised Representative: Barco UK Ltd

Address: Building 329, Doncastle Road

Bracknell RG12 8PE, Berkshire, United Kingdom

1.6 Download Product Manual

Download product manual

Product manuals and other related documentation are available online at <https://www.barco.com>. Search or browse to the product support page or scan the QR code on the product ID-label or on the box label. To see all service documentation (e. g., spare part list, service manuals, field loadable software ...) you must be registered and logged in.

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

1. Equivalent with cleanroom standard ISO 14644-1 ISO Class 9.



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