



# **Cleaning and Disinfection Guide for Kalare™ with Flat Panel Detector**

CANON MEDICAL SYSTEMS CORPORATION

# Procedure

The procedure of cleaning, and disinfection are specified in the operation manual of each system.

## 13.1 Cleaning

After operating the system, clean the system, optional unit, and the room.

According to the Spaulding classification, this system is a Non-Critical medical device. It is not intended to be used in direct contact with a patient, and therefore does not require disinfection or sterilization.

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- ⚠ WARNING**
- 1. If disinfection is required due to the presence of blood etc., perform thorough disinfection referring to subsection 13.2 "Disinfection".**
  - 2. Turn OFF the power supply of the system before cleaning. If the power is ON, malfunction or an accident may occur. If liquids such as water or detergent enter the system, there is a danger of electric shock.**
  - 3. To prevent infection, always wear new protective gloves when performing cleaning and disinfection.**
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**⚠ WARNING**

4. **Clean and disinfect the system using the specified medical agents according to the procedures specified in this manual. Otherwise, the system may be cleaned or disinfected inadequately or may malfunction.**
  5. **Our company cannot guarantee the effectiveness of the specified medical agents for cleaning and disinfection. For questions concerning these products, please contact the manufacturer.**
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**⚠ CAUTION**

1. **Do not pour or spray liquids such as water or detergent on the system. If liquid enters the system, malfunction or an accident may occur.**
  2. **Do not pour liquids such as water or detergent on the floor. If liquid is spilled on the system or liquid enters the cable pit, malfunction or an accident may occur.**
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**NOTICE**

1. Do not clean the system with organic solvents (such as paint thinner) or abrasive cleansers because they may cause damage or discoloration.
  2. Performing cleaning or disinfection repeatedly may gradually lead to deterioration in system performance. Do not clean or disinfect the system more than is required for preventing infection.
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## (1) Cleaning of the system

- (a) Cleaning of the accessories (handgrips, shoulder rest, footrest, compression band)

If the accessories are soiled with contrast media, wipe it off using a clean damp cloth.

- (b) Cleaning of the main body of the system

Wipe off stains with a soft cloth moistened with neutral detergent. Dilute neutral detergent to the concentration specified by the manufacturer. Moisten a soft cloth with the diluted detergent, and then wring the cloth out firmly so that the detergent does not drip from the cloth.

Wipe off stains, then wipe the system again using a dry soft cloth.

## (2) Cleaning of the room

Remove dust from the room using a vacuum cleaner. When scrubbing the floor, use a tightly wrung out mop or cloth so that water does not drip.

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**⚠CAUTION** If any liquid, such as a chemical or barium, spills on the X-ray diagnostic table, turn the power OFF as soon as possible and wipe off the liquid. Start using the table only after it becomes dry. If the liquid enters the interior of the table, do not use the system. Call your service representative for inspection.

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- (3) If cleaning is performed by a cleaning agency, ensure that they are aware of the WARNING and CAUTION instructions described in (1) and (2).

## 13.2 Disinfection

Perform disinfection of the system, accessories, and options according to the instructions of the hospital's infection control officer.

Ensure that appropriate procedures are followed to disinfect the system, accessories, and units used in combination according to instructions from personnel with expertise in disinfection.

According to the Spaulding classification, this system is a Non-Critical medical device. It is not intended to be used in direct contact with a patient, and therefore does not require disinfection or sterilization.

However, it is possible to disinfect parts of the system such as the covers. If there is blood or other organic substances on parts such as covers, disinfect the part appropriately according to the procedures described in this subsection.

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**⚠DANGER** This system is not explosion-proof. Do not operate the system in an atmosphere containing flammable gases such as anesthetics. Only after the system power is turned OFF, flammable liquids such as methanol can be used. If the flammable liquids were used for disinfection, ventilate the room sufficiently. Otherwise, a fire or an explosion may ensue.

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**⚠ WARNING**

- 1. Do not pour or spray disinfectant on the system.**  
If disinfectant enters the system, malfunction or an accident may occur.
  - 2. Be sure to turn OFF the power supply of the system before disinfection.** If power is supplied, an accident may occur due to unexpected operation of the system when the operating switches are touched.  
If flammable gas or liquid enters the system, a fire, explosion, or electric shock may occur.
  - 3. Observe the precaution below to prevent infection.**
    - If blood etc. has been spilled on the unit, perform thorough disinfection.
  - 4. After disinfection, ventilate the room thoroughly before turning ON the power supply.** If any flammable gas remains in the room, there is a danger of fire or explosion when the power supply is turned ON.
  - 5. To prevent infection, always wear new protective gloves when performing cleaning and disinfection.**
  - 6. Clean and disinfect the system using the specified medical agents according to the procedures specified in this manual.** Otherwise, the system may be cleaned or disinfected inadequately or may malfunction.
  - 7. Our company cannot guarantee the effectiveness of the specified medical agents for cleaning and disinfection.** For questions concerning these products, please contact the manufacturer.
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**⚠ CAUTION**

**Do not use the disinfectants listed below. They will damage the system. The performance and safety of the system cannot be guaranteed if it has been damaged by use of an unsuitable disinfectant.**

- **Disinfectants that are excessively corrosive to metal or rubber such as chlorine-based disinfectants, or disinfectants which warn against use on metal, plastic, rubber, or coatings.**
  - **Disinfectants that may enter the system such as formalin gas or spray-type agents.**
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**NOTICE**

Disinfect the system only when necessary. Performing disinfection many times may result in discoloration or cracking of the surface finish, or rubber or plastic parts may be damaged. If the system appears to be harmed by a disinfectant, immediately stop using that disinfectant. Request repair from your service representative.

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- (1) Recommended disinfectants: The disinfectants listed below can be used on this system. Read the handling manual for the chosen disinfectant, and fully understand the precautions required and its characteristics before using it.
  - Glutaraldehyde
  - Benzalkonium chloride
  - Ethanol for disinfection  
(Do not use on the operation console or other parts made of synthetic rubber or synthetic resin.)
- (2) Disinfection procedures: Wipe off the surface of the system with a cloth moistened with the disinfectant and tightly wrung out. Be careful not to allow disinfectant to enter the system.
- (3) After disinfection, wipe the system with a dry soft cloth or let the system dry naturally.