

**Canon**

# **Disinfection Guide for CT Scanner**

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#### 4.3.2 Cleaning and disinfection

Clean and disinfect the system following the instructions described below.

This system is a noncritical medical device under the Spaulding classification scheme. The system is not intended to be used in direct contact with patients and is not designed to allow disinfection or sterilization of the entire system. However, it is possible to disinfect parts of the system such as the covers. If blood or other potentially infectious materials are present on parts such as covers, disinfect the parts appropriately according to the procedures described in this subsection.

**⚠ DANGER:** This system is not explosion-proof. Therefore, do not use flammable or explosive gases near the system. If flammable or explosive gases enter the system, a fire or explosion may occur.

- After cleaning and disinfection, ventilate the room sufficiently before turning ON the power supply.

**⚠ WARNING:** Ensure safety whenever the customer carries out maintenance and checks.

- Be sure to turn OFF the power supply of the system before cleaning and disinfection. If the system power is ON, switches may be activated accidentally, resulting in personal injury.

\* Usually, do not turn OFF the distribution board. If it is necessary to turn the distribution board OFF for inspection etc., wait for at least 1 hour. Otherwise, the service life of the X-ray tube may be reduced.

**⚠ CAUTION:** When the surfaces of the system, couch accessories, or optional units are contaminated with blood or other potentially infectious materials, and cleaning and disinfection are required, perform cleaning and disinfection according to the procedures described in the operation manual.

- Wear disposable protective gloves to prevent infection.
- Before performing disinfection, carefully read the handling instructions for the disinfectant to be used and fully understand its characteristics and the required precautions for use. Disinfect the surfaces of the system, couch accessories, and optional units according to the handling instructions.

**CAUTION:** 1. When cleaning and disinfecting the system, take care not to damage the system.

- Do not use alcohol to disinfect any artificial leather surfaces or couch accessories (such as immobilization bands) that contain synthetic fabric because doing so may cause deterioration.
- If discoloration or cracks appear in the system after cleaning or disinfection, stop using the system and contact your service representative for repair.
- Clean and disinfect the system using the specified cleaning agents and disinfectants according to the procedures and usage frequency specified in the corresponding instructions for use. Use of a cleaning agent or disinfectant other than those specified may result in discoloration or cracking of the surface finish or in deterioration.
- Do not clean the unit with organic solvents (such as paint thinner) or abrasive cleansers because they may cause damage or discoloration.

2. When cleaning or disinfecting the system, do not spray cleaning agent or disinfectant on the operating panel or other parts where there is a possibility of contact with electrical parts or electronic components. Doing so may cause system malfunction.

#### 4.3.2.1 Cleaning

If cleaning of the surfaces of the system covers or the patient couch accessories is required after the examination is completed, use the procedures below.

##### 4.3.2.1.1 Sections that can be cleaned

- Gantry covers
- Patient couch covers
- Couch top
- Patient couch accessories (headrest, arm-up holder, mats)

##### 4.3.2.1.2 Items required for cleaning

- Soft cloth or gauze to wipe the system
- Mild detergent
- Disposable protective gloves (if infection is possible)

##### 4.3.2.1.3 Cleaning procedures

- (1) Moisten a soft cloth or gauze with mild detergent diluted to the specified concentration, and wipe off the stains on the applicable surface. Ensure that amount of detergent used is such that it does not drip.
- (2) After cleaning, allow the wiped surface to dry.
- (3) Confirm that there are no changes in appearance. If any abnormalities are found, contact your service representative for repair.

#### 4.3.2.2 Disinfection

If disinfection of the surfaces of the system covers or the patient couch accessories is required after cleaning, use the procedures below.

##### 4.3.2.2.1 Sections that can be disinfected

- Gantry covers
- Couch upper cover
- Couch top
- Patient couch accessories (headrest, arm-up holder, mats)

##### 4.3.2.2.2 Items required for disinfection

- Soft cloth or gauze to wipe the system
- Disposable protective gloves to prevent infection

##### 4.3.2.2.3 Specified disinfectants and their concentrations

Disinfectant	Concentration
Isopropyl alcohol	50 to 70 vol%
Ethanol for disinfection	60 to 90 vol%
Benzalkonium chloride	0.05 to 0.2%

##### 4.3.2.2.4 Disinfection procedure

- (1) Moisten a soft cloth or gauze with a specified disinfectant and wipe the surface to be disinfected. Ensure that amount of disinfectant used is such that it does not drip.
- (2) After disinfection, wipe the surface again with a clean dry cloth or allow the wiped surface to dry.