

**NOTE**

- Even when the monitor is handled correctly, it may be affected by the reception of radio and television signals depending on the prevailing radio wave conditions.  
If this happens, observe the following points.
  - Use the monitor at a sufficient distance from radios and televisions.
  - Connect the monitor at a different power outlet than radios and televisions.
- With LCD panels, observe the following points.  
When the panel is used in cold locations the images may leave a trail or may appear dark, but this is not a fault. When the temperature rises it will return to normal. Also, depending on the display conditions, tiny blotches or irregularities may become apparent, but this is not a fault either.  
LCD panels utilize extremely high-definition technology and are manufactured with an effective pixel ratio of 99.999466 % or higher, but pixels that display incorrectly (missing, permanently on, etc.) can occur.
- If you plan to leave the unit unused for an extended period, disconnect the power cord from the wall socket after turning off the power switch for the safety and the power conservation.

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**Cautions on Cleaning and Disinfection**

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**WARNING**

**Be sure to turn the equipment power OFF before cleaning and disinfecting the equipment.**

Otherwise, a malfunction may occur in the equipment, or the equipment may operate in an unintended way.

Thoroughly ventilate the room before turning ON the power after disinfection work is complete.

**CAUTION**

**Be sure to clean and disinfect the equipment periodically.**

Cleaning and disinfection is very important to ensure that the equipment can be used hygienically and safely. Strictly follow the methods prescribed.

**CAUTION**

**Be sure to clean the equipment frequently and after each patient use.**  
While doing so, do NOT directly apply or spray any disinfectant, cleaner, or water onto the equipment. Wipe down all contact surfaces using a cloth moistened with an appropriate disinfectant or cleaner. Make sure the cloth is NOT too wet. If it is, liquid may enter into system electronics, causing failure or malfunction.

**CAUTION**

**Observe the following precautions when cleaning and disinfecting the touch panel:**

- Do NOT rub or hit the panel surface because it tends to scar easily.
- Wipe gently with moistened soft cloth to remove the dust from the panel surface.

**CAUTION**

**Wipe the surface of the equipment with a cloth moistened with the following disinfectants or cleaner.**

- Rubbing alcohol
- Glass cleaner (Only onto the touch panel)

**CAUTION**

**Do NOT use the following disinfectants:**

If any of the following disinfectants are applied, the equipment performance and safety cannot be guaranteed.

- Chlorine-based disinfectants
- Disinfectants that corrode metals, plastics, rubber, or paint
- Disinfectants unsuitable for metals, plastics, rubber, or paint
- Spray-gas type disinfectants
- Volatile disinfectants
- Disinfectants that may enter the equipment



**CAUTION**

**Use disinfectants at a minimum.**

Repeated disinfection over a long time may lead to discoloring and cracking on the equipment surface, and deterioration of rubber and plastic. If any abnormality is found on the equipment after disinfection, stop using the equipment immediately. Contact your service representative for repair.



**CAUTION**

**Do NOT use an organic solvent.**

Organic solvents may change the surface color. If an organic solvent adheres to the surface, wipe it out immediately.



**CAUTION**

**When disinfecting acrylic tabletop and reticule of the collimator, do NOT use rubbing alcohol.**

Rubbing alcohol may lead to deformation or crack of acrylic tabletop and reticule of the collimator. Wipe it off immediately when they are spilled on the tabletop and the reticule of the collimator.



**CAUTION**

**When cleaning acrylic tabletop and reticule of the collimator, use cloth lightly dampened with cold or warm water mixed with neutral detergent that does not include organic solvent.**

Rubbing alcohol, organic solvents or non-neutral detergents may lead to deformation or crack of acrylic tabletop and reticule of the collimator. Wipe it off immediately when they are spilled on the tabletop and the reticule of the collimator.

On completing the work, check the following points before switching the power ON again.

- There must be no water or disinfectant adhering to the equipment.
- The tools used in cleaning and disinfecting work must be tidied away.

**WARNING**

**When turning the power ON after cleaning, make sure the examination room is properly ventilated.**

Turning the power ON while any flammable gas remains in the examination room could lead to fire, smoke, explosion or electrocution.

## **Cautions on the System and Software**

**CAUTION**

**Observe the following precautions about the system software.**

- Do NOT attempt to alter any system software.  
Doing so could disrupt the functioning of the system and result in loss of images.
- Do NOT attempt to alter any system hardware components.  
Doing so could disrupt the functioning of the system and result in loss of images. Use of any hardware components not provided by Shimadzu is strictly prohibited. This includes peripherals (mouse, keyboard, monitor, etc.).
- Pay careful attention to other high frequency-generating equipment in the room. The DR-ID 900 console PC cabinet should be as far as possible from any such device to prevent noise from affecting the image video signal.
- Do NOT disconnect the cables connected to this system.  
Otherwise the image may not be displayed, the data may be damaged and the system may not be started up.
- Do NOT move any system component.  
If necessary, move it carefully to avoid damaging.
- Do NOT apply any shocks to the system components.
- Do NOT place anything which may generate magnetic fields near the system components.
- Do NOT alter the system setting.  
Do NOT install any software to the system other than that provided by Shimadzu for this system.  
Otherwise, the system may not be started up.

### 9.1.3 Cleaning and Disinfecting



**Be sure to turn the equipment power OFF before cleaning and disinfecting the equipment.**

Otherwise, a malfunction may occur in the equipment, or the equipment may operate in an unintended way.

Also, thoroughly ventilate the room before turning ON the power after disinfection work is complete.



**Be sure to clean and disinfect the equipment periodically.**

Cleaning and disinfection is very important to ensure that the equipment can be used hygienically and safely. Strictly follow the methods prescribed.



**Be sure to clean the equipment frequently and after each patient use.**

While doing so, do NOT directly apply or spray any disinfectant, cleaner, or water onto the equipment. Wipe down all contact surfaces using a cloth moistened with an appropriate disinfectant or cleaner. Make sure the cloth is NOT too wet. If it is, liquid may enter into system electronics, causing failure or malfunction.



**Observe the following precautions when cleaning and disinfecting the touch panel:**

- Do NOT rub or hit the panel surface because it tends to scar easily.
- Wipe gently with moistened soft cloth to remove the dust from the panel surface.

**CAUTION****Use the following disinfectants and cleaner:**

- Rubbing alcohol
- Glass cleaner (Only onto the touch panel)

**CAUTION****Do NOT use the following disinfectants:**

If any of the following disinfectants are applied, the equipment performance and safety cannot be guaranteed.

- Chlorine-based disinfectants
- Disinfectants that corrode metals, plastics, rubber, or paint
- Disinfectants unsuitable for metals, plastics, rubber, or paint
- Spray-gas type disinfectants
- Volatile disinfectants
- Disinfectants that may enter the equipment

**CAUTION****Use disinfectants at a minimum.**

Repeated disinfection over a long time may lead to discoloring and cracking on the equipment surface, and deterioration of rubber and plastic. If any abnormality is found on the equipment after disinfection, stop using the equipment immediately. Contact your service representative for repair.

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**CAUTION****Do NOT use an organic solvent.**

Organic solvents may change the surface color. If an organic solvent adheres to the surface, wipe it off immediately.

## 9 Inspection and Maintenance

On completing the work, check the following points before switching the power ON again.

- There must be no water or disinfectant adhering to the equipment.
- The tools used in cleaning and disinfecting work must be tidied away.

 Reference 3 "Power ON/OFF"



**When turning the power ON after cleaning, make sure the examination room is properly ventilated.**

Turning the power ON while any flammable gas remains in the examination room could lead to fire, smoke, explosion or electrocution.

### 6.2.1 Cleaning and Disinfection



**Be sure to turn the equipment power OFF before cleaning and disinfecting the equipment.**

Otherwise, a malfunction may occur in the equipment, or the equipment may operate in an unintended way.

Also, thoroughly ventilate the room before turning ON the power after disinfection work is complete.



**Be sure to clean and disinfect the equipment.**

Cleaning and disinfection is very important to ensure that the equipment can be used hygienically and safely. Strictly follow the methods prescribed.



**Be sure to clean the equipment frequently and after each patient use.**

While doing so, do NOT directly apply or spray any disinfectant, cleaner, or water onto the equipment. Wipe down all contact surfaces using a cloth moistened with an appropriate disinfectant or cleaner. Make sure the cloth is NOT too wet. If it is, liquid may enter into system electronics, causing failure or malfunction.



**Use the following disinfectants and cleaner:**

- Rubbing alcohol
- Glass cleaner\*
- \* Only onto the touch panel

**Do NOT use the following disinfectants:**

- Chlorine-based disinfectants
- Disinfectants that corrode metals, plastics, rubber, or paint
- Disinfectants unsuitable for metals, plastics, rubber, or paint
- Spray-gas type disinfectants
- Volatile disinfectants
- Disinfectants that may enter the equipment

**Do NOT use an organic solvent.**

Organic solvents may change the surface color. If an organic solvent adheres to the surface, wipe it off immediately.

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**Use disinfectants at a minimum.**

Repeated disinfection over a long time may lead to discoloring and cracking on the equipment surface, and deterioration of rubber and plastic. If any abnormality is found on the equipment after disinfection, stop using the equipment immediately. Contact your service representative for repair.

**Observe the following precautions when cleaning and disinfecting the touch panel:**

- Turn the equipment power OFF before cleaning and disinfecting.
- Clean and disinfect the touch panel periodically.
- Wipe the surface of the equipment with a cloth moistened with disinfectants or cleaner. If liquid gets inside the equipment, it can cause failure or accidents.
- Do NOT rub or hit the panel surface because it tends to scar easily.
- Wipe gently with moistened soft cloth to remove the dust from the panel surface.

On completing the work, check the following points before switching the power ON again.

- There must be no water or disinfectant adhering to the equipment.
- The tools used in cleaning and disinfecting work must be tidied away.

 ["3.1 Power ON/OFF"](#)



**When turning the power ON after cleaning, make sure the examination room is properly ventilated.**

Turning the power ON while any flammable gas remains in the examination room could lead to fire, smoke, explosion or electrocution.

### **6.2.2 Inspection for Warning and Caution Labels**

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Periodically (once a year) inspect the labels attached on the equipment.

If any label is peeled or unreadable by stain or scratch, contact your service representative for replacement of a new one.

 ["Warning and Caution Labels" P. Introduction-23](#)

| Check Points  | Procedure  |
|---|--|
| <input type="checkbox"/> Is the FPD wired connection status changed by inserting or pulling the tray? <sup>*2</sup> | <ul style="list-style-type: none"> <li>• Install the FPD correctly.</li> <li>• Insert the tray securely.</li> <li>• If not improved, contact your service representative.</li> </ul> |

\*1: Applicable when the BR-120/BR-120T and CH-200 are combined

\*2: Applicable to the HC tray

- 3** Turn ON the power supply and check the following points. Perform the appropriate procedure in case of any problems.

| Check Points   | Procedure                           |
|--|-------------------------------------|
| <input type="checkbox"/> Does the unit make any noise when moving ?              |                                     |
| <input type="checkbox"/> Does the interlock switch operate correctly?            | Contact your service representative |
| <input type="checkbox"/> The brake can be released at up/down movement of Bucky? | Contact your service representative |

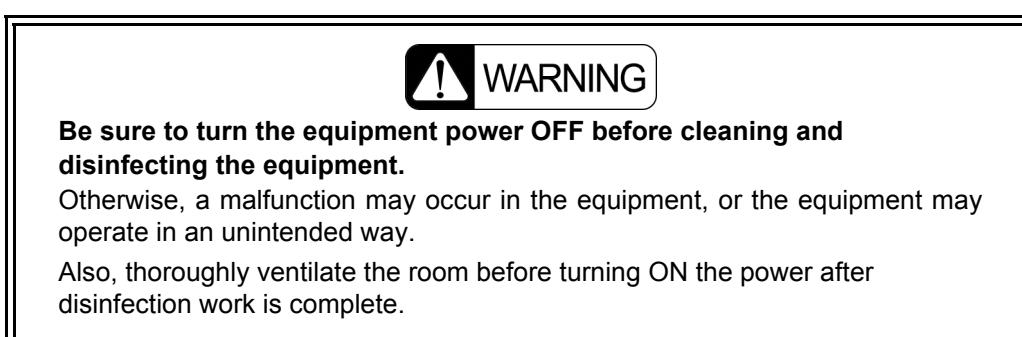
## 5.2.2 Inspection for Warning and Caution Labels

Periodically (once a year) inspect the labels attached on the equipment.

If any label is peeled or unreadable by stain or scratch, contact your service representative for replacement of a new one.

 "Warning and Caution Labels" P. xxii

## 5.2.3 Cleaning and Disinfection



**CAUTION**

**Be sure to clean and disinfect the equipment periodically.**

Cleaning and disinfection are very important to ensure that the equipment can be used hygienically and safely. Strictly follow the methods prescribed.

**CAUTION**

**Be sure to clean the equipment frequently and after each patient use.**

While doing so, do NOT directly apply or spray any disinfectant, cleaner, or water onto the equipment. Wipe down all contact surfaces using a cloth moistened with an appropriate disinfectant or cleaner. Make sure the cloth is NOT too wet. If it is, liquid may enter into system electronics, causing failure or malfunction.

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**CAUTION**

**Use the following disinfectant:**

- Rubbing alcohol

**CAUTION**

**Do NOT use the following disinfectants:**

If any of the following disinfectants are applied, the equipment performance and safety cannot be guaranteed.

- Chlorine-based disinfectants
- Disinfectants that corrode metals, plastics, rubber, or paint
- Disinfectants unsuitable for metals, plastics, rubber, or paint
- Spray-gas type disinfectants
- Volatile disinfectants
- Disinfectants that may enter the equipment



**CAUTION**

**Use disinfectants at a minimum.**

Repeated disinfection over a long time may lead to discoloring and cracking on the equipment surface, and deterioration of rubber and plastic. If any abnormality is found on the equipment after disinfection, stop using the equipment immediately. Contact your service representative for repair.



**CAUTION**

**Do NOT use an organic solvent.**

Organic solvents may change the surface color. If an organic solvent adheres to the surface, wipe it out immediately.

On completing the work, check the following points before switching the power ON again.

- There must be no water or disinfectant adhering to the equipment.
- The tools used in cleaning and disinfecting work must be tidied away.



"3.1 Prior to Operation" P.16



**WARNING**

**When turning the power ON after cleaning, make sure the examination room is properly ventilated.**

Turning the power ON while any flammable gas remains in the examination room could lead to fire, smoke, explosion or electrocution.

#### 4.2.5 Cleaning and Disinfection



##### WARNING

**Be sure to turn the equipment power OFF before cleaning and disinfecting the equipment.**

Otherwise, a malfunction may occur in the equipment, or the equipment may operate in an unintended way.

Thoroughly ventilate the room before turning ON the power after disinfection work is complete.

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##### CAUTION

**Be sure to clean and disinfect the equipment periodically.**

Cleaning and disinfection is very important to ensure that the equipment can be used hygienically and safely. Strictly follow the methods prescribed.

Cleaning and disinfection is very important to ensure that the system can be used hygienically and safely. You must strictly follow the methods prescribed.



##### CAUTION

**Do NOT directly apply rubbing alcohol or water, or spray it onto the equipment.**

Wipe the surface of the equipment with a cloth soaked with rubbing alcohol.

If rubbing alcohol gets inside the equipment, it can cause failure or accidents.



##### CAUTION

**Wipe the surface of the equipment with a cloth soaked with the following disinfectant. The surface may be discolored or deformed depending on the type of material and paint used. Apply the disinfectant in an inconspicuous area first. Be sure to read the instructions for the disinfectant.**

- Rubbing alcohol

**CAUTION****Do NOT use the following disinfectants:**

If any of the following disinfectants are applied, the equipment performance and safety cannot be guaranteed.

- Chlorine-based disinfectants
- Disinfectants that corrode metals, plastics, rubber, or paint
- Disinfectants unsuitable for metals, plastics, rubber, or paint
- Spray-gas type disinfectants
- Volatile disinfectants
- Disinfectants that may enter the equipment

**CAUTION****Use disinfectants at a minimum.**

Repeated disinfection over a long time may lead to discoloring and cracking on the equipment surface, and deterioration of rubber and plastic. If any abnormality is found on the equipment after disinfection, stop using the equipment immediately. Contact your service representative for repair.

**CAUTION****Do NOT use an organic solvent.**

Organic solvents may change the surface color. If an organic solvent adheres to the surface, wipe it out immediately.

**CAUTION****When disinfecting acrylic tabletop, do NOT use rubbing alcohol.**

Rubbing alcohol may lead to deformation or crack of acrylic tabletop. Wipe it off immediately when they are spilled on the tabletop .

**CAUTION**

**When cleaning acrylic tabletop, use cloth lightly dampened with cold or warm water mixed with neutral detergent that does not include organic solvent.**

Rubbing alcohol, organic solvents or non-neutral detergents may lead to deformation or crack of acrylic tabletop. Wipe it off immediately when they are spilled on the tabletop.

On completing the work, check the following points before switching the power ON again.

- There must be no water or disinfectant adhering to the equipment.
- The tools used in cleaning and disinfecting work must be tidied away.



"3.1 Power ON/OFF" P14

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**WARNING**

**When turning the power ON after cleaning, make sure the examination room is properly ventilated.**

Turning the power ON while any flammable gas remains in the examination room could lead to fire, smoke, explosion or electrocution.