SOMATOM

Instructions for Use – Cleaning and disinfection
Legend

Indicates a hint
Is used to provide information on how to avoid operating errors or information emphasizing important details

Indicates the solution of a problem
Is used to provide troubleshooting information or answers to frequently asked questions

Indicates a list item

Indicates a prerequisite
Is used for a condition that has to be fulfilled before starting a particular operation

Indicates a one-step operation

Indicates steps within operating sequences

Italic
Is used for references and for table or figure titles

Bold
Is used to identify window titles, menu items, function names, buttons, and keys, for example, the Save button

Orange
Is used to emphasize particularly important sections of the text

Courier
Is used for on-screen output of the system including code-related elements or commands

Courier
Is used to identify inputs you need to provide

Menu > Menu Item
Is used for the navigation to a certain submenu entry

<variable>
Is used to identify variables or parameters, for example, within a string

CAUTION
Used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury or material damage.
CAUTION consists of the following elements:
• Information about the nature of a hazardous situation
• Consequences of not avoiding a hazardous situation
• Methods of avoiding a hazardous situation
WARNING
Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
WARNING consists of the following elements:
• Information about the nature of a hazardous situation
• Consequences of not avoiding a hazardous situation
• Methods of avoiding a hazardous situation
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1 Introduction

This Instructions for Use document provides detailed information about cleaning and disinfecting your CT system, system components and accessories.

1.1 Scope of the Instructions for Use

This Instruction for Use document applies to the following CT systems:

- SOMATOM Definition AS
- SOMATOM Definition Edge
- SOMATOM Confidence
- SOMATOM Edge Plus
- SOMATOM Definition Flash
- SOMATOM Drive
- SOMATOM Force
- SOMATOM go.All
- SOMATOM go.Now
- SOMATOM go.Open Pro
- SOMATOM go.Sim
- SOMATOM go.Top
- SOMATOM go.Up
- SOMATOM X.cite
1 Introduction
2 Safety information

Follow the safety information in this document.

To ensure the safe use of your product and the safety of people, you must adhere to the safety information provided in the Instructions for use documents. In addition, also observe your country-specific regulations and guidelines.

Safety information is located in the safety section and repeated within context where a hazardous situation may occur. To make sure safety information is understood, always read it in context of the situation.

WARNING and CAUTION are highlighted in the text:

- **WARNING**: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION**: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

**WARNING** and **CAUTION** have the same structure. The following example **CAUTION** instructs you how to read a **WARNING** or a **CAUTION**:

---

**CAUTION**

- **This text describes the hazardous situation**: Images with lossy compression are used for diagnosis!
- **This text describes the hazard**: Wrong diagnosis.
  - **This text describes how to avoid the hazardous situation**: Always verify your evaluation results with the original DICOM images (first reader duty).
  - Never use lossy ...
2.1 General safety information

For the secure operation of your medical device, it is the responsibility of the system owner to ensure that each person who operates the system reads and understands the provided Instructions for Use.

**WARNING**

Not observing the Instructions for Use and the safety information of the medical device and the equipment!

**Injury to the patient or personnel, and damage to the equipment.**

- Always observe the Instructions for Use of the particular units used. This includes the labels applied on the equipment as well as the Instructions for Use documents.
- Always use this Instructions for Use document in conjunction with all Instructions for Use documents provided.
- Follow the safety instructions and safety signs.
- For references purposes, store the Instructions for Use near your workplace.

Electronic Instructions for Use are provided on your CT system and on the workplace.
3 Cleaning and disinfection

The following instructions are valid for the CT system, system components, and accessories.

**CAUTION**

Using improper cleaning solvents!

**Injury to the cleaning personnel (allergic reaction or allergic shock) and damage to the equipment.**

- Follow the cleaning and disinfecting instructions of the Instructions for Use.
  
  Do not use unsuitable cleaning agents. Always use cleaning media also approved for humans.
  
  Follow the instructions of the disinfectant manufacturer and observe the dosage instructions.

**CAUTION**

Insufficient cleaning or disinfection of the equipment!

**Injury to the patient or the personnel (bio hazard).**

- Always clean or disinfect the equipment after use. Observe the instructions for cleaning and disinfecting.
  
  Check if system components or accessories are worn out to ensure proper cleaning. Replace worn out components or accessories immediately.
  
  Make sure that the table and the accessories are clean and covered with paper, if possible.

The table below lists the components that have equivalent names:
### Component names used in the following sections

<table>
<thead>
<tr>
<th>Component names used in the following sections</th>
<th>Equivalent names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Touch Panel</td>
<td>Tablet</td>
</tr>
<tr>
<td>3D Camera</td>
<td>FAST 3D Camera</td>
</tr>
</tbody>
</table>

**Components that may not be part of your system configuration are nevertheless described in the latest version of the instructions for use. The availability of these components depends on your purchase contract.**

**For hygiene reasons, Siemens Healthineers recommends, for example, to always cover both the mattress and positioning aids with crepe paper.**

Follow the cleaning instructions provided in this Instructions for Use document:

- [Page 15](#) Overview of approved cleaning agents and disinfectants
- [Page 17](#) Examples for unsuitable cleaning agents and disinfectants
- [Page 19](#) Cleaning and disinfecting the CT system and system components

### 3.1 Cleaning agents and disinfectants

For cleaning and disinfection of the CT system, system components and accessories, you can use commercially available cleaning agents and disinfectants.

For information on approved cleaning agents and disinfectants, refer to [Page 15](#) Overview of approved cleaning agents and disinfectants
CAUTION

Using improper cleaning solvents!

**Injury to the cleaning personnel (allergic reaction or allergic shock) and damage to the equipment.**

- Follow the cleaning and disinfecting instructions of the Instructions for Use.

  Do not use unsuitable cleaning agents. Always use cleaning media also approved for humans.

  Follow the instructions of the disinfectant manufacturer and observe the dosage instructions.

3.1.1 **Overview of approved cleaning agents and disinfectants**

The table below lists suitable cleaning agents and disinfectants tested and approved by Siemens Healthineers.
### Cleaning and disinfection

“♦” indicates tested and approved cleaning agents or disinfectants.

<table>
<thead>
<tr>
<th>System component / accessory</th>
<th>Antacidic cleaner</th>
<th>pH-neutral cleaning agent</th>
<th>Surgical spirit</th>
<th>Alcohols</th>
<th>Aldehyde</th>
<th>Quaternary compounds</th>
<th>Guanidin derivatives</th>
<th>Pyridin derivatives</th>
<th>Chlorine derivatives</th>
<th>Benzene</th>
<th>Alkylamines</th>
<th>Phenol derivatives</th>
<th>Organic acids</th>
<th>Peroxide compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gantry</strong></td>
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<td>Gantry operator panel</td>
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<td>Surgical rail</td>
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<td>Mattress</td>
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<td>Monitor housing</td>
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<td>Monitor screen</td>
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<td>Foam material (for example, positioning aids)</td>
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<td>Image Reconstruction System (IRS)</td>
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<td>ECG cables</td>
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<td>Foot switch</td>
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<td>3D camera assembly</td>
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</tr>
</tbody>
</table>

1) ≤ 70 Vol% alcohol
Other cleaning agents and disinfectants than those tested and approved may impact the material surface of the system component or the accessory.

It is at your own risk to use other cleaning agents and disinfectants than those tested and approved by Siemens Healthineers.

3.1.2 Examples for unsuitable cleaning agents and disinfectants

Cleaning agents and disinfectants containing or releasing the following substances may cause damage to the equipment and must not be used:

- Abrasive cleaning liquids
- Organic solvents such as acetone, stain remover, or cleaner’s naphtha
- Agents that release ammonia when they are dissolved or decomposed
  Ammonia has a corrosive effect.
- Agents that contain silicone
  Silicone decays over time and can form sticky deposits that interfere with electrical contacts.
- Disinfectants that release chlorine
- Phenol derivatives
  Phenol derivatives may impair material surfaces.

Do not use cleaning agents and disinfectants in spray form:

- Sprays can enter the equipment and damage electrical components.
- Sprays can corrode various plastics, and can form flammable mixtures with air and solvent vapors.
3.1.3 Cleaning and disinfection for veterinary use

Veterinary use of the CT system requires that you thoroughly clean and disinfect the patient table and positioning aids.

If the CT system is used for animal patients as well as for human patients, the cleaning agents and disinfectants used have to be approved for humans.

**CAUTION**

Insufficient cleaning or disinfection of the equipment!

**Injury to the patient or the personnel (bio hazard).**

- Always clean or disinfect the equipment after use. Observe the instructions for cleaning and disinfecting.

  Check if system components or accessories are worn out to ensure proper cleaning. Replace worn out components or accessories immediately.

  Make sure that the table and the accessories are clean and covered with paper, if possible.

**CAUTION**

Using of cleaning media not approved for humans!

**Allergic reaction or allergic shock.**

- Always use cleaning media also approved for humans.
3.2 Cleaning and disinfecting the CT system and system components

To avoid personal injury and damage to the equipment, carefully follow the cleaning and disinfection instructions provided.

For information on approved cleaning agents and disinfectants, refer to (→ Page 15 Overview of approved cleaning agents and disinfectants).

**CAUTION**

- Liquids or food and drinks in the vicinity of medical equipment!
- **Injury to the patient or personnel, and malfunction of or damage to the equipment.**
  - Shut down the system immediately if liquid is detected within the equipment.
  - Contact, and leave all repairs to the Customer Service at Siemens Healthineers.
  - Clean the equipment with a damp, not wet, cloth.
  - Wring the cloth out well and make sure that no liquids get onto, or into, the equipment.
  - After cleaning, make sure that no water remains on the floor to avoid slipping.
  - Keep food and drinks away from the equipment.

Do not use unsuitable cleaning agents and disinfectants. (→ Page 17 Examples for unsuitable cleaning agents and disinfectants).
3.2.1 Cleaning and disinfecting the gantry

“♦” indicates tested and approved cleaning agents or disinfectants.

<table>
<thead>
<tr>
<th>Cleaning agents and disinfectants (MFR 890/009 - 2017)</th>
</tr>
</thead>
<tbody>
<tr>
<td>System component / accessory</td>
</tr>
<tr>
<td>Gantry cover</td>
</tr>
<tr>
<td>Gantry operator panel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Antistatic cleaner</th>
<th>pH-neutral cleaning agent</th>
<th>Surgical spirit</th>
<th>Alcohol</th>
<th>Aldehyde</th>
<th>Quaternary compounds</th>
<th>Guanidin derivatives</th>
<th>Pyridin derivatives</th>
<th>Chlorine derivatives</th>
<th>Benzenes</th>
<th>Alkylamines</th>
<th>Phenol derivatives</th>
<th>Organic acids</th>
<th>Peroxide compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gantry cover</td>
<td>♦</td>
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<td>Gantry operator panel</td>
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</tr>
</tbody>
</table>

1 ≤ 70 Vol% alcohol

1. The gantry is switched off.

2. Remove all impurities immediately with a damp but not wet cloth.
   - Remove blood spots with cold water.
   - Remove contrast medium spots with warm water.

3. Clean using a pH-neutral cleaning agent.

4. Disinfect using an approved disinfectant.

4. After disinfection with alcohol, clean the corresponding parts with hot water that contains a pH-neutral cleaning agent.

Cleaning agents and disinfectants that contain more than 70 Vol% alcohol can tarnish the surface.
### Cleaning and disinfecting the Touch Panel screen

“♦” indicates tested and approved cleaning agents or disinfectants.

<table>
<thead>
<tr>
<th>System component / accessory</th>
<th>Antistatic cleaner</th>
<th>pH-neutral cleaning agent</th>
<th>Surgical spirit</th>
<th>Alcohols</th>
<th>Aldehydes</th>
<th>Quaternary compounds</th>
<th>Guanidin derivatives</th>
<th>Pyridin derivatives</th>
<th>Chlorine derivatives</th>
<th>Benzene</th>
<th>Alkylamines</th>
<th>Phenol derivatives</th>
<th>Organic acids</th>
<th>Peroxide compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Touch Panel</td>
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</tr>
</tbody>
</table>

1) ≤ 70 Vol% alcohol

You can clean the screen of the Touch Panel even if it is switched on.

1. On the Touch Panel of your CT system, tap the **Settings** icon to open the **Settings** popover.
2. Choose the **General** tab to activate the **Screen Cleaning Mode**.
   - In **Screen Cleaning Mode**, a black screen with an unlock area is displayed.
3. Clean the touch screen with a soft damp cloth, for example, a microfiber cleaning cloth or a static-free cloth without oil.
4. Use the following cleaning agents to safely clean the touch screen:
   - Anti-static cleaner
   - Alcohol-free glass-cleaning fluid
   - Solution of water and a pH-neutral cleaning agent
5. For disinfecting the touch screen, use disinfectants that contain less than 70 Vol% alcohol.
6. After cleaning and disinfecting the touch screen, tap and keep the unlock area pressed until the circular progress bar is fully loaded.

The cleaning mode is deactivated now.

You can restart controlling gantry functions and movement of the patient table using the Touch Panel.
Do not use fibrous materials, such as paper towels, that can scratch the screen. Over time, dirt particles and cleaning agents can get trapped into the scratches.

Do not use corrosive agents to clean the touch screen to avoid damage to the surface coating. (→ Page 17 Examples for unsuitable cleaning agents and disinfectants)

3.2.2 Cleaning and disinfecting the patient table

“♦” indicates tested and approved cleaning agents or disinfectants.

<table>
<thead>
<tr>
<th>Cleaning agents and disinfectants (MFR 890/009 - 2017)</th>
</tr>
</thead>
<tbody>
<tr>
<td>System component / accessory</td>
</tr>
<tr>
<td>-----------------------------</td>
</tr>
<tr>
<td>Patient table</td>
</tr>
<tr>
<td>Surgical rail</td>
</tr>
</tbody>
</table>

3 ♦ ≤ 70 Vol% alcohol

If necessary, remove the tabletop or raise the RTP overlay to remove surface contamination on the patient table itself.

1. Remove all impurities immediately with a damp but not wet cloth.
   - Remove blood spots with cold water.
   - Remove contrast medium spots with warm water.
2. Clean using a pH-neutral cleaning agent.
3. Disinfect using an approved disinfectant.
Do not use cleaning agents that contain organic acids for the surgical rail. This can cause a mottled surface.

### 3.2.3 Cleaning and消毒 the mattress

“♦” indicates tested and approved cleaning agents or disinfectants.

<table>
<thead>
<tr>
<th>System component / accessory</th>
<th>Antistatic cleaner</th>
<th>pH-neutral cleaning agent</th>
<th>Surgical spirit</th>
<th>Alcohols</th>
<th>Aldehydes</th>
<th>Quaternary compounds</th>
<th>Guanidin derivatives</th>
<th>Pyridin derivatives</th>
<th>Chlorine derivatives</th>
<th>Benzene</th>
<th>Alkylamines</th>
<th>Phenol derivatives</th>
<th>Organic acids</th>
<th>Peroxide compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mattress</td>
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</tbody>
</table>

1) ≤ 70 Vol% alcohol

Although the mattress is water-proof, blood, or colored disinfectants may leave stains that cannot be removed.

Siemens Healthineers recommends covering the mattress with crepe paper for hygiene reasons.

1. Clean thoroughly using a pH-neutral cleaning agent and a soft brush.
2. Disinfect using an approved disinfectant.
3. Rinse well after disinfecting.
4. Store only after complete drying.

Do not use surgical spirit for cleaning. The surface material could become wrinkled.
Do not use disinfectants containing alcohols, quaternary compounds, aldehyde, or aldehyde decomposers. These substances discolor the surface material.

3.2.4 Cleaning and disinfecting accessories made from foam material

“♦” indicates tested and approved cleaning agents or disinfectants.

<table>
<thead>
<tr>
<th>System component / accessory</th>
<th>Antistatic cleaner</th>
<th>pH-neutral cleaning agent</th>
<th>Surgical spirit</th>
<th>Alcohols</th>
<th>Aldehyde</th>
<th>Quaternary compounds</th>
<th>Guanidin derivatives</th>
<th>Pyridin derivatives</th>
<th>Chlorine derivatives</th>
<th>Benzene</th>
<th>Alkylamines</th>
<th>Phenol derivatives</th>
<th>Organic acids</th>
<th>Peroxide compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foam material (for example, positioning aids)</td>
<td>♦</td>
<td></td>
<td>♦</td>
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</tbody>
</table>

1) ≤ 70 Vol% alcohol

A number of accessories, such as positioning aids, is made from foam material.

Siemens Healthineers recommends covering positioning aids with crepe paper for hygiene reasons.

1. Clean thoroughly using a pH-neutral cleaning agent and a soft brush.
2. Disinfect using an approved disinfectant.
3. Rinse well after disinfecting.
4. Store only after complete drying.
Do not use surgical spirit for cleaning. The surface material could become wrinkled.

Do not use disinfectants containing alcohols, quaternary compounds, aldehyde, or aldehyde decompositors. These substances discolor the surface material.

### 3.2.5 Cleaning the monitor

“♦” indicates tested and approved cleaning agents or disinfectants.

<table>
<thead>
<tr>
<th>System component / accessory</th>
<th>Antistatic cleaner</th>
<th>pH-neutral cleaning agent</th>
<th>Surgical spirit</th>
<th>Alcohols</th>
<th>Aldehyde</th>
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<th>Benzene</th>
<th>Alkylamines</th>
<th>Phenol derivatives</th>
<th>Organic acids</th>
<th>Peroxide compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor housing</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
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<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
</tr>
<tr>
<td>Monitor screen</td>
<td>♦</td>
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</tr>
</tbody>
</table>

1) ≤ 70 Vol% alcohol

The monitor screen has a sensitive anti-reflective coating which has to be treated with care.

**WARNING**

Cleaning of parts of the system while the system is connected to the power supply!

**Electric shock due to possible contact with line voltage.**

♦ Always switch the system off at the main power switch before cleaning or disinfecting.
3 Cleaning and disinfection

![WARNING]

Cleaning of the monitor housing during operation!

**Electric shock**
- Only clean the housing when the monitor is switched off.

✔ The monitor is switched off.

1 Clean the monitor housing with a damp but not wet cloth.

2 Clean the housing components only with approved cleaning agents.

3 Wipe off any droplets of liquid from the monitor screen immediately.

   Extended contact with water discolors the surface of the monitor screen.

4 For protecting the sensitive anti-reflective coating of the monitor screen, use a microfiber cloth and, if necessary, an antistatic cleaner for cleaning.

ℹ️ Do not use corrosive agents to clean the monitor screen to avoid damage to the surface coating. (→ Page 17 *Examples for unsuitable cleaning agents and disinfectants*)
Cleaning the monitor ceiling system

“♦” indicates tested and approved cleaning agents or disinfectants.

<table>
<thead>
<tr>
<th>Cleaning agents and disinfectants (MFR 890/009 - 2017)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antistatic cleaner</td>
</tr>
<tr>
<td>Monitor ceiling system</td>
</tr>
<tr>
<td>♦</td>
</tr>
</tbody>
</table>

1) ≤ 70 Vol% alcohol

**WARNING**

Liquids in the monitor ceiling system, power supply cables are laid inside!

**Electric shock**

♦ Make sure that no liquids, for example cleaning fluids, can get into the interior of the monitor ceiling system.

**CAUTION**

Dirt and liquid in the monitor arm of the ceiling mounted monitor!

**Infection possible**

♦ Clean the monitor and monitor arm after use.

1. Clean after use.
2. Clean with a damp but not wet cloth.
3. Wipe off any droplets of liquid immediately to avoid that fluids infiltrate the interior of the monitor ceiling system.
3.2.7 Cleaning and disinfecting the image reconstruction system (IRS)

“♦” indicates tested and approved cleaning agents or disinfectants.

<table>
<thead>
<tr>
<th>System component / accessory</th>
<th>Antistatic cleaner</th>
<th>pH-neutral cleaning agent</th>
<th>Surgical spirit</th>
<th>Alcohols</th>
<th>Aldehydes</th>
<th>Quaternary compounds</th>
<th>Guanidin derivatives</th>
<th>Pyridin derivatives</th>
<th>Chlorine derivatives</th>
<th>Benzene</th>
<th>Alkylamines</th>
<th>Phenol derivatives</th>
<th>Organic acids</th>
<th>Peroxide compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Reconstruction System (IRS)</td>
<td>♦</td>
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</tr>
</tbody>
</table>

1) ≤ 70 Vol% alcohol

- The IRS is switched off.
- Clean the housing of the IRS with a damp but not wet cloth.

Do not use alcohol or phenol derivatives for disinfecting the housing of the IRS. (→ Page 17 Examples for unsuitable cleaning agents and disinfectants)
### 3.2.8 Cleaning and disinfecting body straps

“♦” indicates tested and approved cleaning agents or disinfectants.

<table>
<thead>
<tr>
<th>System component / accessory</th>
<th>Antistatic cleaner</th>
<th>pH-neutral cleaning agent</th>
<th>Surgical spirit</th>
<th>Alcohols</th>
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<th>Benzene</th>
<th>Alkylamines</th>
<th>Phenol derivatives</th>
<th>Organic acids</th>
<th>Peroxide compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body straps</td>
<td>♦</td>
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</tbody>
</table>

1) ≤ 70 Vol% alcohol

Body straps can be machine-washed at temperatures up to 35° C. Washing may lead to minor surface changes, for example, softening the straps. The flame-retardance is not affected.

1. Remove contaminations with a wet cloth and a pH-neutral cleaning agent.

2. For on-site cleaning and disinfection, use sodium hypochlorite (max. 0.1 % active chlorine) or branded disinfectants.

   – or –

   Before machine-washing or dry-cleaning, close the body straps in order to protect the Velcro parts.

3. Store only after complete drying.
### 3.2.9 Cleaning and disinfecting ECG cables

“♦” indicates tested and approved cleaning agents or disinfectants.

<table>
<thead>
<tr>
<th>System component / accessory</th>
<th>Antistatic cleaner</th>
<th>pH-neutral cleaning agent</th>
<th>Surgical spirit</th>
<th>Alcohols</th>
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<th>Alkylamines</th>
<th>Phenol derivatives</th>
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<th>Peroxide compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECG cables</td>
<td>♦ (^1)</td>
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</tbody>
</table>

\(^1\) ≤ 70 Vol% alcohol

- Clean and disinfect ECG cables with isopropyl alcohol (less than 70 Vol%) or another mild disinfectant only.

Do not use substances that contain acetone. Acetone can affect the cable material.

Do not steam sterilize ECG cables. Damp can infiltrate the interior of ECG cables.
C

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  approved 15
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Caution: Federal law restricts this device to sale by or on the order of a physician, dentist, or veterinarian (21 CFR 801.109(b) (1)).