



## Cleaning Guide

CLEANING AND DISINFECTING GUIDELINES FOR ZEBRA  
DS8178-HC, DS8108-HC, DS4608-HC, CS4070-HC, DS9908-HD



# Cleaning and Disinfecting Guidelines for Zebra Healthcare Scanners

In healthcare, there's no room for error. Zebra's scanners simplify caregivers' interactions with their patients. Scanning applications, though routine in nature to the caregivers, help prevent medical errors, improve patient safety and increase productivity. With imaging technology automating many of the caregivers' administrative requirements, caregivers can focus on the needs of the patient.

## Introduction

This document provides guidelines to use when cleaning or disinfecting the Zebra scanners designed for use in various healthcare environments to protect the Zebra product and optimize its performance. Included is a list of cleaning agents that are approved by Zebra for use on devices listed below.

It is important to follow the cleaning and disinfecting product manufacturer directions regarding how to use their product to attain the efficacy indicated.



## Cleaning and Disinfecting Guidelines

- Turn off and/or disconnect the device from AC/DC power.
- The use of non-approved cleaning or disinfecting agents on Zebra devices may void the warranty.
- To avoid damage to the device or accessory, use only approved Cleaning & Disinfecting agents indicated for the specific product.
- Follow the Manufacturer's directions on the approved Cleaning & Disinfecting agent for how to use their product properly and safely.
- Use pre-moistened wipes or dampen a soft sterile cloth (not wet) with the approved agent. Never spray or pour chemical agents directly onto the device.
- Use a moistened cotton-tipped applicator to reach tight areas. Be sure to remove any lint left over by the applicator.
- Do not allow liquid to pool.
- Allow the device to air dry, or dry with a soft lint-free cloth or towelette before use. Ensure electrical contacts are fully dry before reapplying power.

## Approved Cleaning and Disinfectant Agents for Zebra Healthcare Scanners

There are numerous cleaning agents used in the healthcare industry, some of which contain ingredients that are harmful to the devices. Therefore, it is important to use only Zebra-approved cleaning and disinfecting agents from the lists below.

**Note:** Any solution percentages specified in the list below should be adhered to and not exceeded.

### DS8100 Series for Healthcare

3% Hydrogen Peroxide and 97% Water solution	Medipal Alcohol Wipes
10% Bleach (Sodium Hypochlorite 0.55%) and 90% Water solution*	Metrex CaviWipes
91% Isopropyl Alcohol and 9% Water solution	Metrex CaviWipes 1
Azowipe	PDI Easy Screen® Cleaning Wipe
Bruhin BruTab 6S Tablets*	PDI Sani-Cloth AF3 Germicidal Disposable Wipe
Clinell Universal Sanitizing Wipes	PDI Sani-Cloth Bleach Germicidal Disposable Wipe*
Clinell Universal Wipes	PDI Sani-Cloth HB Sani-Germicidal Disposable Wipe
Clorox Dispatch Hospital Cleaner Disinfectant Towels with Bleach*	PDI Sani-Cloth Plus Germicidal Disposable Cloth
Clorox Formula 409 Glass and Surface Cleaner	PDI Super Sani-Cloth Germicidal Wipe
Clorox Healthcare Bleach Germicidal Wipes*	Progressive Products Wipes Plus
Clorox Healthcare Hydrogen Peroxide Wipes	Sani Professional Disinfecting Multi-Surface Wipes
Clorox Healthcare Multi-Surface Quat Alcohol Wipes	Sani-Hands® Instant Hand Sanitizing Wipes
Diversey D10 Concentrate Detergent Sanitizer	SC Johnson Windex Original Glass Cleaner with Ammonia-D
Diversey Dimension 256 Neutral Disinfectant Cleaner	Spartan Hepacide Quat II
Diversey Oxivir Tb Wipes	Sterets Alcowipe
Diversey Virex II 256 One-Step Disinfectant Cleaner	Steris Coverage Plus Germicidal Surface Wipes
Metrex CaviCide	Veridien Viraguard
Metrex CaviCide 1	WipesPlus Hospital/Surgical Wipes

\* Not for use on cradles



**DS4600 Series for Healthcare and CS4070 Series for Healthcare**

3% Hydrogen Peroxide and 97% Water solution	Diversey Virex II 256 One-Step Disinfectant Cleaner
10% Bleach (Sodium Hypochlorite 0.55%) and 90% Water solution*	PDI Sani-Cloth Bleach Germicidal Disposable Wipe*
70% Isopropyl Alcohol and 30% Water solution	PDI Sani-Cloth HB Sani-Germicidal Disposable Wipe
Clorox Dispatch Hospital Cleaner Disinfectant Towels with Bleach*	PDI Sani-Cloth Plus Germicidal Disposable Cloth
Clorox Formula 409 Glass and Surface Cleaner	PDI Super Sani-Cloth Germicidal Wipe
Clorox Healthcare Bleach Germicidal Wipes*	Spartan Hepacide Quat II

\* Not for use on cradles

**DS9900 Series for Labs**

Isopropyl alcohol 70% (including pre-moistened wipes)





**Warning:** The combining of chemical agents may be hazardous both to the user as well as to the device and is not approved. Always follow the safety instructions provided by the manufacturer of the approved cleaning agent, along with the Zebra cleaning guidelines, for safe handling and use.

### Special Precaution for Bleach-based Disinfectants

Bleach-based cleaners are not approved for use on cradles. Bleach products are known to corrode metals very quickly. Avoid allowing any bleach-based cleaner to touch the electrical contacts. If the contacts are exposed to bleach, it is important to completely remove it using only water or isopropyl alcohol solution.

### Special Precaution for Hand Sanitizers

Some hand sanitizers contain ingredients that can be harmful to the device. Hands should be completely dry before handling the device and cradles to prevent damage.

### Additional Periodic Deep Cleaning Maintenance

Keep your Zebra device and cradle in good working order with regular and comprehensive cleaning to remove the natural build-up of dirt that occurs with everyday use. Deep cleaning maintenance is recommended on a monthly basis.

#### 1. Scanner Exit Window:

- Wipe the scanner exit window with a lens tissue or other material suitable for cleaning optical materials such as eyeglasses.

#### 2. Charging Contacts

- Dip the cotton portion of a cotton-tipped applicator in isopropyl alcohol.
- Gently rub the cotton portion of the cotton-tipped applicator back and forth across the connector contacts of the Zebra device.
- Using a dry cotton-tipped applicator, rub across the connector contacts of the Zebra device back and forth several times.
- Carefully inspect and remove any cotton or other residue that remains on the connector.
- Allow the isopropyl alcohol to air dry, or dry with a soft lint-free cloth or towelette. Ensure electrical contacts are fully dry before reapplying power.

#### 3. Cradles and Battery Chargers

- Remove the power cable from the cradle or charger.
- Dip a cotton-tipped applicator in isopropyl alcohol.
- Gently rub the moistened cotton-tipped applicator along the pins of the connector. Slowly move the applicator back and forth from one side of the connector to the other.
- Rub all sides of the connector with the cotton-tipped applicator.
- Spray compressed air in the connector area by pointing the tube/nozzle about 1/2 inch (12.7 mm) away from the surface. (Caution: When using compressed air, follow the product manufacturer's directions for safe usage.)
- If grease or other types of debris are found on other areas of the cradle, use a lint free cloth and isopropyl alcohol or a pre-moistened alcohol wipe to remove.
- Inspect and remove any residue (e.g., cotton, cloth, etc.) that may have attached to the connector during the cleaning process.



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