

X-OMAT Screen Cleaner

X-OMAT Screen Cleaner is formulated for the care of

- MIN-R Mammography Film Screens,
- CARESTREAM general radiography and industrial X-ray intensifying screens and
- CARESTREAM computed radiography screens.

X-OMAT Screen Cleaner is a water-based product which contains a fluorinated surfactant. This greatly lessens the charging of the screen during contact with the film, and thus the propensity for the screen to attract and hold dirt.

Recommended Cleaning Procedures:

Note: Be sure to use the procedure for the appropriate product!

1. **Min-R Mammography Film Screens (page 2)**
2. **General Radiography and Industrial X-ray film intensifying screens (page 3)**
3. **Computed radiography screens (page 3)**
4. **Directview, Vita and Vita Flex cassettes (page 3)**

MIN-R Mammography Film Screen Cleaning:

Maintaining clean mammography intensifying screens and cassette interiors will reduce the occurrence of minus density artifacts caused by dust and dirt. Intensifying screens and cassettes should always be cleaned following the recommendations of the manufacturer.

Mammography screens, which are used as a single screen with single emulsion mammography film, should be cleaned at least once a week, or more frequently as needed to reduce shadow images caused by dust and dirt. For the best results, the recommendations below should be followed when cleaning MIN-R and MIN-R 2 cassettes, in which MIN-R, MIN-R 2000, MIN-R 2190, MIN-R 2250, MIN-R EV 150, MIN-R EV 190 or MIN-R EV 250 Screens are mounted:

1. Choose a clean location to clean screens and cassettes. If working on a countertop in a darkroom, wipe the outside of the cassettes and clean the countertop with a damp cloth prior to cleaning the screen. Manage cassettes so that they are empty at the time of cleaning, in order to avoid replacing film that was previously loaded into the cassettes. Do not place film from cassettes back into the film box or film bin as this could introduce dust into the film supply.
2. If using a new screen, go to step 3. For screens that are currently in use, clean them carefully with water to remove traces of existing cleaner and then clean the screen **twice** with the new screen cleaner, leaving enough time between each cleaning, for the screen to dry. Be sure to use a lint free cloth.
3. Clean the inside of the plastic cover of the cassette (tube side panel) using a **lint free** wipe that has been dampened with a small amount of X-OMAT Screen Cleaner. Dry the cover. It may be advisable to use a soft, lint free brush to remove dust that has accumulated in the corners of the cassette cover, along the hinge. This dust may not be easily reached with a dampened cloth.
4. Moisten a lint free wipe with a small amount of X-OMAT Screen Cleaner and gently rub the wipe across the screen. Avoid the following:
 - Abrasive wipes
 - Excessive pressure or rubbing of screen
 - Pouring of screen cleaner directly on the screens or cassettes
 - Excess amounts of screen cleaner (will prolong drying)
5. Clean around any labels on the screen (e.g. those used to individually number the cassettes). **Do not wipe the screen dry.** Allow the screen surface to air dry so that the full effect of the screen cleaner is realized. A solution of 70% isopropyl alcohol may be used to remove stubborn dirt or dust, providing X-OMAT Screen Cleaner is used afterwards.

NOTE: Isopropyl alcohol should never be used with computed radiography screens or cassettes.

6. Stand the cassettes on edge to dry. Allow the screens and cassettes to completely air dry before returning them to service. Loading film into cassettes with wet screens may damage the film and lead to staining of the screens.
7. Inspect the screen and cassette cover for any stray particles of dust. An ultraviolet, or black light is helpful in determining if screens and cassettes are clean. Appropriate safety precautions need to be followed when using a black light as mentioned above.
8. Reload the cassette with the film. If using MIN-R 2 Cassettes, wait at least 5 minutes after loading before using. If using MIN-R Cassettes, wait at least 15 minutes before using. Reclean the countertop if the cleaning procedure was done in the darkroom.

General Radiography and Industrial X-Ray Intensifying Film Screens Cleaning:

1. Dampen a lint-free wipe/cloth with the solution.
2. Wipe one screen at a time with the damp pad. After cleaning, wipe each screen again with a new dry, clean lint-free wipe/cloth.
3. Allow screens to air dry completely before returning to service.

CARESTREAM Computed Radiography Screens Cleaning:

Note: Cleaning materials other than those recommended can contain chemicals that cause visible or hidden damage to the screen and could result in immediate or future image artifacts.

Never use Isopropyl alcohol (Isopropanol, rubbing alcohol) to clean screens or cassettes.

Cleaning Materials

- Clean, dry, non-abrasive, lint-free wipe/cloths
- X-OMAT Screen Cleaner

1. Fold a non-abrasive, lint-free wipe or cloth and dampen with a small amount of the solution. **DO NOT POUR THE SOLUTION DIRECTLY ONTO THE SCREEN.** (Excessive amounts of the screen cleaner may damage the screen.)
2. Wipe the screen thoroughly, one section at a time. Fold the cloth to expose a fresh area for each section of the screen.
3. Apply pressure to remove persistent dirt, if necessary.
4. Wipe the screen thoroughly dry with a clean, dry, non-abrasive, lint-free cloth to remove residual cleaner. **DO NOT LEAVE THE SCREEN TO AIR-DRY.**

Never insert a damp storage phosphor screen into a cassette. The cassette and screen must be thoroughly dry.

Cleaning the DIRECTVIEW Cassette / Vita and Vita Flex Cassettes

Note: Use of a cleaning agent other than those specifically suggested is not recommended.

Cleaning Materials

- A soft cloth
- A mild soap-and-water solution or X-OMAT Screen Cleaner

Note: Do not use soaps or detergents containing brightening agents. Use of a cleaning agent other than those specifically suggested is not recommended.

Cleaning Method

1. Clean the outer cassette surfaces using a soft cloth moistened with a mild soap-and-water solution or X-OMAT Screen Cleaner.
PREVENT ALL LIQUIDS FROM ENTERING THE CASSETTE.
2. Dry the cassette with a soft cloth.
3. Check that all external and internal surfaces are thoroughly dry before reassembling and returning screens and cassettes to use.

Storage

X-OMAT Screen Cleaner should be used in temperatures above 5 °C (40 °F) and below 30 °C (85 °F). This product is considered a low health hazard if recommended handling procedures are followed. Keep out of the reach of children.

NOTICE! Observe precautionary information on product labels and on the Safety Data Sheet.

The contents of this publication are subject to change without notice.

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