



Cleaning + Disinfecting Midmark Dental Equipment + Accessories

Table of Contents

Use the following links to navigate directly to the cleaning instructions for the applicable product.

Cabinetry

Artizan® Expressions Cabinetry + Synthesis® Cabinetry	2
Countertop Materials	3

Imaging

Midmark® Extraoral Imaging System (EOIS)	4
Preva Intraoral X-Ray Systems	6
ClearVision® Digital Sensor System	7

Instrument Processing

M9® and M11® Steam Sterilizers	9
QuickClean® Ultrasonic Cleaners	10

Mechanical Room

PowerVac® and PowerVac G Dry Vacuums	11
ClassicSeries® Wet-Ring Vacuum	12
PowerMax Vacuum + PowerAir® Air Compressor	13

Operatory

Chairs + Seating	14
Delivery Systems	15
LED Operatory Light	17
255 LED Procedure Light	18



Cleaning + Disinfecting Midmark Cabinetry

Part

Artizan® Expressions Cabinetry

Cleaning Method

Materials:

Use cleaners and disinfectants that are appropriate for the situation, such as warm water and mild detergents, or an ammonia-based cleaner.

Procedure:

Please refer to [Formica® Laminate Cleaning Guide](#) or [Arauco™ Maintenance and Cleaning for PRISM TFL Panels](#) for complete details.

Part

Synthesis® Cabinetry

Cleaning Method

Materials:

- Bleach and water mixed in 1:10 ratio (10% bleach)
- Clear water rinse
- Drying towel

Procedure:

1. Use the 10% bleach solution to disinfect the cabinetry.
2. Rinse with clear water.
3. Thoroughly dry the material.

NOTE: Any deviation from this recommendation could risk damage to the materials, staining or discoloration.

Please refer to the Omnova Solutions [surf\(x\) Laminates Chem Resistance Tech Bulletin](#) for complete details.



Cleaning + Disinfecting Midmark Cabinetry

Part

Countertops

Cleaning Method

Solid Surface Countertops:

Refer to the [DuPont™ Corian® Solid Surface Effects of Healthcare Chemical Disinfectants Technical Bulletin](#) for complete details.

Viatera® Quartz:

Refer to the [Viatera® Care and Maintenance](#) page for complete details.

Corian® Quartz

Refer to the [Caring for Corian® Quartz document](#) for complete details.

Laminate Countertop

Refer to the [Wilsonart](#) and [Formica Care and Maintenance](#) pages for complete details.



Cleaning + Disinfecting Midmark Extraoral Imaging System (EOIS)

Part

EOIS 3D X-Ray

EOIS 2D X-Ray

EOIS Cephalometric Extension

Cleaning Method

Materials:

- Disposable sheaths and covers compatible with the ISO 10993-1 standard
- EPA-registered hospital-grade intermediate-level disinfectant with a tuberculocidal claim, such as CaviWipes™ (US and Canada), CaviWipes™ AF (US), or equivalent
- Soft damp towel
- Soft disposable towels

Procedure:

Use disposable sheaths and covers compatible with the ISO 10993-1 standard on the bite guide, TMJ positioner, cephalometric nasion marker and ear posts, and replace the sheaths between each patient use. Clean and disinfect all parts that touch the patient between each patient use.

Cleaning

1. Use fresh gloves prior to cleaning the EOIS device.
2. Remove all sheaths and covers.
3. Remove any gross bioburden from the head positioner and guides, cephalometric ear posts, nasion marker, hand grips and structure using a soft disposable towel moistened with warm water.
4. Dry these parts with soft disposable towels.
5. Inspect EOIS parts for any visible contamination. If needed, repeat the cleaning process.

Continued on page 5



Cleaning + Disinfecting Midmark Extraoral Imaging System (EOIS)

Part

EOIS 3D X-Ray

EOIS 2D X-Ray

EOIS Cephalometric Extension

Cleaning Method

Disinfecting

1. Use fresh gloves prior to disinfecting the EOIS device.
2. Wipe the EOIS parts, including the operator panel, with an EPA-registered hospital-grade intermediate-level disinfectant with a tuberculocidal claim.
3. Remove any remaining disinfectant or cleaning product from the parts with a water-dampened, soft disposable towel to prevent possible product discoloration or corrosion.
4. Dry the patient contact areas with disposable towels.
5. Verify that all product labels are still intact and legible.
6. Reapply disposable sheaths and covers to EOIS parts that touch or are near patients' mucosal membranes before use on the next patient.

CAUTION: Do not apply any liquids directly to any EOIS surface. Follow the manufacturer's instructions for use of the disinfectant chosen.

IMPORTANT:

- Use sheaths and covers that are biocompatible following the [ISO 10993-1 standard](#).
- For appropriate disinfection, see [List B: EPA's Registered Tuberculocide Products Effective Against Mycobacterium Tuberculosis](#).

Refer to the, [user manual](#) for complete details.



Cleaning + Disinfecting Midmark Imaging X-Ray Equipment

Part

Preva Plus-Integrated Intraoral X-Ray System

Preva 2.0 Intraoral X-Ray System

Preva DC Intraoral X-Ray System

Cleaning Method

Materials:

- Non-alcohol-based disinfectant
- Soft damp towel
- Paper towels

Procedure:

Employ personal protective equipment to prevent the spread of infections. If not using barriers on your equipment, perform these cleaning and disinfecting steps between each patient:

1. Clean the outside of the system using a damp towel or non-alcohol-based disinfectant.
2. Remove gross bioburden from the cone, handles and structure with a disposable towel moistened with water.
3. Dry the cone, handles and structure with disposable towels.
4. Wipe the cone, handles and structure with a germicidal broad-spectrum disinfectant.
5. Clean any remaining disinfectant residue from the system with a disposable towel moistened with water. This additional step prevents possible product discoloration or corrosion.
6. Dry the cone, handles and structure with paper towels.

CAUTION: The Preva Dental X-Ray System is not waterproof. Clean it only with moistened, not saturated, towels. Follow the manufacturer's instructions when using germicidal disinfectants.

IMPORTANT:

- Do not allow liquids to drip into the system electronics.
- Do not spray cleaner or disinfectant directly onto the machine.
- Protect the system from contamination using barriers available from dental distributors.
- Follow the disinfectant manufacturer's recommendations.

Refer to the, [user manual](#) for complete details.



Cleaning + Disinfecting Midmark Imaging X-Ray Equipment

Part

Midmark Intraoral

Digital Sensor Systems

Midmark Intraoral

Digital Sensor Laptop Suite

Cleaning Method

Materials:

- CIDEX OPA®
- DENTASEPT®
- RelyOn™

Never Use:

Alcohols (Isopropyl Alcohol, Methanol), SEKUSID-N™, SEKUSEPT Easy™, FD333™, FD322™

Procedure:

- Use personal protection equipment during the disinfecting process.
- Always use a new sanitary sheath for each patient. The sheath must be biocompatible following the standard ISO 10993-1. Sheaths provided by Midmark meet this standard.

Important:

- Do not immerse the USB connector in a disinfecting solution.
- Do not clean the sensor or cable with abrasive tools.
- Do not use disinfectants that contain bleach or alcohol.
- Do not heat sterilize or autoclave the sensor as this will damage the electronics and enclosure, thus voiding the warranty.

Disinfection by Immersion

The preferred method for disinfecting the Midmark Intraoral Digital Sensor and associated cables is by immersion in a disinfecting solution.

1. Follow the disinfectant manufacturer's recommended immersion time and other instructions.
2. Soak the sensor cable in disinfecting solution only if there is no mechanical damage to the sensor or cable. If the mechanical damage is recognized, consult with Midmark Technical Support before attempting to immerse the sensor or cable. Do not immerse the USB connector in a disinfecting solution.
3. Dry the sensor before placement in a new sanitary sheath.

Continued on page 8



Cleaning + Disinfecting Midmark Imaging X-Ray Equipment

Part

Midmark Intraoral

Digital Sensor Systems

Midmark Intraoral

Digital Sensor Laptop Suite

Cleaning Method

Disinfection by Wiping

The Midmark Intraoral Digital Sensor and associated cables may be disinfected by wiping with a high-level EPA registered hospital disinfectant as per manufacturer's directions.

1. Disinfect the sensor and the first 10 centimeters of the sensor cable before first use and before any new patient.
2. Wipe the sensor surface with a gauze sponge moistened with a disinfecting solution or with a prepared disinfectant wipe.
3. Dry the sensor before placement in a new sanitary sheath.

Refer to the, [user guide](#) for complete details.



Cleaning + Disinfecting Midmark Instrument Processing Equipment

Part

Midmark M9® Steam Sterilizer
Midmark M11® Steam Sterilizer

Cleaning Method

Materials:

- Cloth or wipe containing quaternary amine disinfectant, such as Optim™ Wipes
- Distilled water
- Mild soap

Procedure:

Caution: Before cleaning, make sure your sterilizer unit is cooled to room temperature.

1. Wash the exterior of sterilizer using a cloth or wipe containing a quaternary amine disinfectant. Do not use metal brushes, steel wool or other abrasives to clean the unit. Do not use solutions containing alcohol or bleach.
2. Rinse the sterilizer exterior with water* and let dry completely.
3. Open the sterilizer door. Clean the gaskets and mating surfaces with a damp cloth.
4. Use the drain tube mounted on the front of the unit to drain the water from the reservoir. With assistance, tilt the unit to ensure the reservoir has been drained as completely as possible. Note: This step is unnecessary if the sterilizer is connected to a direct-to-drain thermal reduction system.
5. Remove all trays, racks and plates from the interior of the sterilizer. Wash these items and the inside of the sterilizer chamber with mild soap and water. Rinse with water after washing.*
6. Let chamber air dry completely before closing the door.

Refer to the, [user guide](#) for complete details.

*Water, when referenced for washing or rinsing, is defined as distilled water or water that meets the water purity specifications found in the user guide.



Cleaning + Disinfecting Midmark Instrument Processing Equipment

Part

QuickClean®
Ultrasonic Cleaners

Cleaning Method

Materials:

- Mild detergent
- Distilled water
- Cleaning cloth

Procedure:

Before cleaning the equipment, always switch off and disconnect it from the power supply, allowing it to cool down to less than 40°C/104°F.

1. Drain the cleaning solution from the tank.
2. Remove the baskets and wipe down the inside of the tank with soap and distilled water.
3. Clean and rinse the baskets with soap and distilled water and let air dry.
4. Replace the baskets when dry.

Refer to the, [user guide](#) for complete details.



Cleaning + Disinfecting Midmark Mechanical Room Equipment

Part

PowerVac® G Dry Vacuum

PowerVac® Dry Vacuum

Cleaning Method

Materials:

Non-foaming vacuum system cleaner such as Precision Clense™

Procedure:

Clean vacuum piping system daily to keep the separation tank rinsed and clean. This practice helps protect the internal tank controls and eliminates the need to rinse the separator tank.

1. Start with the farthest operator from the vacuum.
2. Suction up the cleaning solution. (Follow mixture instructions provided with the vacuum system cleaner.)

Note: Alternate air and vacuum while cleansing.

Submerge and remove HVE and SE from the mixture several times until the mixture is consumed.

3. Keep the cleansed vacuum lines (HVE and SE) open and move to the next operator.
4. Repeat steps 1–3 until all vacuum lines are cleansed.

Important: User must run the equipment for 5 minutes after all operatories are cleansed.

Refer to the care guides for complete details:

[PowerVac](#) and [PowerVac G](#).



Cleaning + Disinfecting Midmark Mechanical Room Equipment

Part

ClassicSeries® Wet-Ring Vacuum

Cleaning Method

Materials:

- Clean, dry cloth
- Non-foaming vacuum system cleaner such as Precision Clense™ Water

Procedure:

Daily

1. Clean the piping system with a non-foaming vacuum system cleaner such as Precision Clense.
2. Clean the vacuum inlet strainer.
 - a. Turn the vacuum "OFF."
 - b. Remove, replace and/or clean the filter bowl, screen and gasket.
 - c. Reassemble these parts.
 - d. Turn the vacuum "ON."

Annually

1. Clean and/or replace the vacuum relief filter.
 - a. Pull the filter out of the end cap.
 - b. Blow off the filter and/or replace it if it's damaged.
 - c. Replace the filter in VRV end cap.
2. Clean the water inlet strainer.
 - a. Turn vacuum "OFF."
 - b. Remove the cap on the "Y" strainer housing and pull out the wire intake strainer.
 - c. Rinse with water and blow off.
 - d. Replace the strainer and cap.
 - e. Turn vacuum "ON."
3. Wipe the vacuum pump with a clean cloth to remove dust and debris.

View the [care guide](#) for complete details.



Cleaning + Disinfecting Midmark Mechanical Room Equipment

Part

PowerMax High Performance Vacuum
Operatory Recovery Room Package

Cleaning Method

Materials:

Clean, dry cloth

Procedure:

After Each Use

Replace the collection canister, which is designed for single patient use only. Refer to the collection canister manufacturer for replacement.

Annually

Clean air vents on motors annually.

1. Disconnect power.
2. Wipe with a clean cloth to remove dust and debris.

View the [maintenance guide](#) for complete details.

Part

PowerAir® Oil-less Air Compressor

Cleaning Method

Materials:

Clean, dry cloth

Procedure:

Wipe with a clean cloth to remove dust and debris.

View the [maintenance guide](#) for complete details.



Cleaning + Disinfecting Midmark Operatory Equipment, Materials + Accessories

Part

**Elevance® Dental Chairs, Ultra-Series
Dental Chairs + Seating**

Cleaning Method

Materials:

Use cleaners that are appropriate for the situation, such as warm water and mild detergents, or a 10% solution of bleach with water.

Procedure:

Refer to the [Elevance Dental Chair user guide](#) or [Ultra-Series Chair user guide](#) for complete details.

Part

Standard Upholstery

Cleaning Method

If using a premixed disinfectant, reference the latest list of [Suggested Premixed Disinfectants](#) that have been tested by an independent lab and deemed safe for use on Midmark standard upholstery and all painted and metal surfaces.

Refer to the [Upholstery Care and Maintenance Instructions](#) for complete details.

Part

Ultraleather®

Cleaning Method

Refer to [Preferred Cleaners and Disinfectants for Ultrafabrics® Polyurethanes](#) for Ultraleather cleaning recommendations.



Cleaning + Disinfecting Midmark Operatory Equipment, Materials + Accessories

Part

Delivery Systems

Cleaning Method

Materials:

- Disposable barriers
- EPA-registered and FDA market-cleared cleaner/disinfectant such as Cavicide™
- Cleaning cloth
- Cleaning solution (warm water + mild detergent or 10% solution bleach with water)
- Straw- or cartridge-based water treatment system

Procedure:

Barriers

Use disposable barriers on all clinician controls that may be in contact with clinician hands and fingers during dental procedures. The use of barriers significantly reduces the need for chemical cleaners, thus prolonging the life of the equipment.

Cleaning and Disinfecting

In addition to the use of barriers, use an EPA-registered and FDA market-cleared cleaner/disinfectant on all clinician controls or surfaces that may come in contact with dental instruments during dental procedures.

General Purpose Cleaning

Use cleaners that are appropriate for the situation, such as warm water and mild detergents or a 10% bleach with water solution, to wipe down surfaces.

Waterline Maintenance

Waterline maintenance is necessary to keep the count of heterotrophic bacteria from rising higher than desired levels. The desired level for a specific location should be determined by local and/or regional guidelines. For example, the US Centers for Disease Control and Prevention (CDC) guideline for heterotrophic bacteria is less than or equal to 500 CFU/mL (colony forming units per milliliter). Midmark recommends keeping this level under 200 CFU/mL.

Continued on page 16



Cleaning + Disinfecting Midmark Operatory Equipment, Materials + Accessories

Part

Delivery Systems

Waterline Maintenance (continued):

Many treatment options are available. The most popular methods on the market currently are tablets and straw- or cartridge-based systems. Midmark recommends the use of a straw- or cartridge-based system that keeps the bacteria levels in check.

Regularly monitor waterlines to ensure that heterotrophic bacteria do not exceed the desired limit. Monitoring frequency should be established by your practice. Midmark recommends that you begin by monitoring on a monthly basis and adjust the frequency based on test results.

If the heterotrophic bacteria level is higher than desired, perform a shock treatment of the waterlines. Before performing a shock treatment, check with the manufacturer of your regular treatment regimen to ensure chemical compatibility.

Per the CDC, perform routine flushing of the waterlines between every patient. Extra flushing may be needed within Midmark equipment when tablets are used. Undissolved tablet particles can gather over time in places within the waterlines, obstructing the line and causing water flow to slow. By flushing the waterlines, water flow is maximized and should push any undissolved particles through.

Refer to the user guides for full delivery system details:

Asepsis 21®

[Traditional](#)

[Continental-Style](#)

Procenter Delivery Systems

[All](#)



Cleaning + Disinfecting Midmark Operatory + Procedure Lights

Part

Midmark LED Operatory Light

Cleaning Method

Materials:

- Single-use barriers
- Mild detergent or 10% solution bleach with water

Procedure:

Barriers

Single-use barriers and disposable items significantly reduce the need for chemical cleaners, thus prolonging the life of the equipment. Barrier material must be impervious to moisture/fluids.

General Purpose Cleaning

Use cleaners that are appropriate for the situation, such as warm water and mild detergents or a 10% solution of bleach with water, to wipe down equipment.

Refer to the, [user guide](#) for complete details.



Cleaning + Disinfecting Midmark Operatory + Procedure Lights

Part

Midmark 255 LED Procedure Light

Cleaning Method

Materials:

- Quaternary Disinfectant, such as CaviWipes™
- Soft cloth

Procedure:

1. Apply the appropriate disinfecting solution to a soft cloth. Use only quaternary disinfectants on the light. Staining, pitting, discoloration or softening could occur if a phenolic, iodophor or glutaraldehyde-based solution is used on the plastic surfaces of the light head. Also, using alcohol or aerosol spray cleaners/disinfectants containing substantial amounts of alcohol in the formula may damage the lens.
2. Wring excess solution from cloth, then wipe external surfaces of the arms and light head.
3. Do not rinse or dry. Allow solution to air dry.

Refer to the, [user guide](#) for complete details.



Designing better care.®

Formica, Birex SE, Rapicide, Metricide, ProCide-D, Aldahol, WD-40, Ultrafabrics, Ultraleather, Corian, Arauco, Cavicide, Viatera, Precision Clense, CaviWipers, Cidex Opa, Dentasept, RelyOn and Optim are not trademarks of Midmark Corporation and are the sole property of their respective owners.

Cleaning product examples may not be available or approved for use outside of the US.

For more information, contact your Midmark dealer or call 1.800.MIDMARK.
Outside the USA, call 1.937.526.3662 or visit our website at midmark.com

© 2023 Midmark Corporation, Versailles, Ohio USA.
Products subject to improvement changes without notice. Litho in USA.

007-10312-00 Rev C1 (4/23)