CEREC camera
Care, cleaning, disinfection and sterilization

Instructions for CEREC Omnicam and CEREC Bluecam
(valid for USA)
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# Cleaning agents

**NOTE**
Use only chemical products recommended by Dentsply Sirona.

| Kerr Corporation | • CaviCide  
|                 | • Cavi Wipes |
| Patterson        | • pdCARE    
|                 | • pdCARE Wipes |
|                 | > 60% isopropyl alcohol |
2 CEREC Omnicam

2.1 General information

CAUTION
If the CEREC Omnicam accidentally falls down, check to make sure that the camera windows and coated sapphire glass are not damaged. If the CEREC Omnicam has been damaged, it must no longer be used on patients. The CEREC Omnicam must be recalibrated.

NOTE
Do not sterilize the CEREC Omnicam or the camera cable!

NOTE
The mirror sleeves are not autoclave sterilizable!

The CEREC Omnicam is a very sensitive optical device and must therefore be handled with the utmost care. Protect the coated sapphire glass and the camera windows against scratches and clean them with a clean lint-free cloth and ethanol (commercially available cleaning alcohol) whenever a film is noticed during imaging.

Dental health care providers are advised to select the reprocessing method that aligns with their infection control process. An effective infection control program is practical, reasonable, and reproducible.

3 methods have been validated to reprocess the CEREC Omnicam between patient care:

- High-level disinfection of the mirror sleeve (with HLD Set) [→ 7]
- Dry heat sterilization of the mirror sleeve [→ 12]
- Use of CEREC Omnicam Disposable Sleeves [→ 13]

One of these methods is strongly recommended to be used for the reprocessing of the mirror sleeve.
### 2.2 Components of the Omnicam

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### 2.3 Removing the mirror sleeve

If required to remove the mirror sleeve do the following:

1. Press the mirror sleeve against the camera body.
2. Press detent A.

**NOTE**

There is a risk of damaging the camera windows or the coated sapphire glass, if the mirror sleeve is not pushed straight toward the front.

➢ Push the mirror sleeve straight toward the front – **do not tilt.**

3. Pull off the mirror sleeve.

### 2.4 Refitting the mirror sleeve

**NOTE**

There is a risk of damaging the camera windows or the coated sapphire glass, if the mirror sleeve is not pushed straight toward the camera body.

➢ The mirror sleeve must not come into contact with the camera windows.

➢ Push the mirror sleeve straight toward the camera body – **do not tilt.**

➢ Carefully refit the mirror sleeve until it locks in place.
2.5 Mirror sleeve reprocessing overview

See detailed instructions after summary.

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<td><strong>Pre-Cleaning process</strong> <em>(while mirror sleeve is attached to the camera)</em></td>
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</table>
| 1. Clean with a cotton gauze moistened with tap water of potable water quality that meets Federal Clean Water Standards and pH neutral soap  
*or*  
use a clean lint-free cloth which has been soaked in CaviCide  
*or*  
use Cavi Wipes  
*or*  
use pdCARE Wipes  
*or*  
use a clean lint-free cloth which has been soaked in >60% isopropyl alcohol |
| 2. Dry the mirror sleeve with a clean lint-free cloth. |
| **HLD process** |
| 1. Use Cidex® OPA or Sporox II Sterilizing and Disinfecting Solution (use steel mirror sleeves) as disinfectant for high-level disinfection per manufacturer’s instructions. |
| 2. Leave the mirror sleeve in Cidex® OPA for 12 minutes or in Sporox II for 30 minutes at 20°C. |
| 3. Rinse the sleeve under tap water of potable water quality that meets Federal Clean Water Standards. |
| 4. Dry the mirror sleeve with a clean lint-free cloth. |
| **Dry heat sterilization process** |
| ➢ Dry heat 160°C (Sterident Model 200) for 120 minutes (wrapped or unwrapped)  
*or*  
Dry heat 160°C (SteriSURE) for 60 minutes (wrapped or unwrapped)  
*or*  
Dry heat 190°C (Cox Rapidheat Sterilizer) for 6 minutes (unwrapped),  
*or*  
Dry heat 190°C (Cox Rapidheat Sterilizer) for 12 minutes (wrapped). |

2.6 Pre-cleaning of the mirror sleeve

Cleaning process immediately after using the CEREC Omnicam: While the mirror sleeve is attached to the camera, wipe off so that any surface contamination cannot harden and adhere to the surface of the mirror sleeve.

1. Use a cotton gauze moistened with tap water of potable water quality that meets Federal Clean Water Standards and pH neutral soap or use a clean lint-free cloth which has first been soaked in one of the cleaning products listed in the “Cleaning agents [→ 3]” section to remove visible contamination.
2. Wipe down the mirror sleeve afterwards with the absorbent cotton gauze dipped in drinking water.
3. Next dry the mirror sleeve using a lint-free cloth.
2.7 Disinfecting the camera body and mirror sleeve

**NOTE**

Do not spray the CEREC Omnicam or immerse it in cleaning agents or disinfectants!

Use a new cotton gauze moistened with one of the cleaning products listed in the „Cleaning agents [- 3]“ section. Wipe the camera body first and then the mirror sleeve. This step disinfects the camera body and the mirror sleeve. Then dry the mirror sleeve with a clean lint-free cloth.

2.8 High-level disinfection of the mirror sleeve (with HLD Set)

**NOTE**

Dry heat sterilization and high-level disinfection must not be combined.

The complete process for high-level disinfection is as follows:

**With HLD Set**

**NOTE**

Sporox II should only be used with steel mirror sleeves. Steel mirror sleeves are marked with the letters ST (see the image).

A HLD set to support the HLD process should be ordered from Dentsply Sirona with REF 66 05 120.

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<td>A</td>
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<td>B</td>
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<td>D</td>
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</table>

1. Pre-cleaning (see „Pre-cleaning of the mirror sleeve [- 6]“).
2. Put on Personal Protective Equipment at the latest when handling the high-level disinfectant.
3. Remove the mirror sleeve from the CEREC Omnicam (see „Removing the mirror sleeve [- 5]“).
NOTE
It is recommended that you never switch between disinfecting and sterilizing solutions. However if you do, make sure you thoroughly rinse the HLD set before switching.

4. Place the white protective cap on the camera tip and place the camera in the camera cradle.

5. Use one of the following disinfectants for the high-level disinfection: CIDEX ® OPA, Sporox II.

6. Slid the plug into the metal holder.

7. Press the mirror sleeve onto the plug while holding the metal holder in order to ensure that no particle contamination or fluids penetrate the inside of the mirror sleeve.

⚠️ CAUTION
Observe the disinfectant’s manufacturer’s safety indications!
8. Cautiously fill the HLD container up to the marked level (B) per manufacturer’s instructions. A funnel can be used to assist with filling the liquid (A). Do not spill any disinfectant. If spillage occurs please follow disinfectant’s manufacturer’s safety indications for cleaning.

9. Insert the metal holder with the mirror sleeve.
10. Place the lid on the container and leave the mirror sleeve at least 12 minutes for CIDEX® OPA or 30 minutes for Sporox II in the disinfectant. While exceeding the recommended immersion time may not cause damage to the mirror sleeve, the mirror sleeve should be removed as soon as possible after the recommended time.

11. Remove the lid and the holder with the mirror sleeve from the container.

12. Thoroughly rinse the mirror sleeve with tap water of potable water quality that meets Federal Clean Water Standards for at least 30 seconds while holding it with its holder.
13. Carefully and slowly remove the plug with the holder from the mirror sleeve by downward movement of the holder. Make sure that the mirror sleeve points upwards not to risk any damage by liquids entering the inside of the mirror sleeve.

14. Remove the plug from the holder.

15. Dry the plug with a clean lint-free cloth.

16. Prior to each use of the HLD set test the solution for its effectiveness per manufacturer’s instructions. If not in use rinse container and holder and store the holder inside the empty container.

17. Dry the whole surface of the mirror sleeve and also the lower part of the inner surface using a clean soft, lint-free cloth.

18. Store the mirror sleeve in a manner to protect it from contamination until the time of use.

19. At time of use remove the white protective cap from the camera tip.

20. Carefully re-attach the mirror sleeve and allow it to lock in place (see „Refitting the mirror sleeve [→ 5]“).
2.9 Dry heat sterilization of the mirror sleeve

NOTE
Dry heat sterilization and high-level disinfection must not be combined.

The process for dry heat sterilization is as follows:

1. Pre-cleaning (see „Pre-cleaning of the mirror sleeve [→ 6]“)
2. Remove the mirror sleeve from the CEREC Omnicam (see „Removing the mirror sleeve [→ 5]“).
3. Sterilize the mirror sleeve using dry heat at 190°C for 6 minutes (unwrapped) or 12 minutes (wrapped). Use only pouches which are suitable for dry heat sterilization cycle of at least 190°C, 12 minutes. Alternatively, sterilize mirror sleeve using dry heat at 160°C for 120 minutes or for 60 minutes (unwrapped or wrapped). Use only pouches which are suitable for dry heat sterilization cycle of at least 160°C, 120 minutes.
   - The CPAC Cox RAPIDHEAT Sterilizer, the CPAC Sterident Model 200 and the CPAC SteriSURE have been validated by Sirona Dental Systems.
   - For 6 minutes 190°C program # 1 has to be set on the CPAC Cox RAPIDHEAT Sterilizer.
   - For 12 minutes 190°C program # 3 has to be set on the CPAC Cox RAPIDHEAT Sterilizer.
   - For 120 minutes 160°C the CPAC Sterident Model 200 is to be used.
   - For 60 minutes 160°C the CPAC SteriSURE is to be used.
4. Store the mirror sleeve in such a way that it is protected from contamination until the next use.
5. Carefully re-attach the mirror sleeve and allow it to lock in place (see „Refitting the mirror sleeve [→ 5]“).

NOTE
The mirror sleeve changes its color which will not have any negative impact upon the mirror sleeve’s durability.
2.10 Use of CEREC Omnicam Disposable Sleeves

The CEREC Omnicam can use disposable plastic sleeves to ensure maximum infection control. These are available with order number 66 32 264.

**NOTE**

The disposable sleeves cannot be used with the CEREC AF and CEREC AI systems or when using the shade detection feature or using the Ortho software.

1. Following each patient, remove the disposable sleeve from the CEREC Omnicam camera and dispose of it according to the standard procedure.
2. Wipe disinfection of the camera (see "Wipe disinfection for the camera and mirror sleeve").
3. Remove one disposable sleeve from its packaging. Slide the disposable sleeve up to the stop on the mirror sleeve, so that it is securely positioned on the CEREC Omnicam camera. Hold the camera in other places, not just on the sleeve in order to prevent the camera from falling.
4. Position the camera in the holder, so that it can warm up for 15 minutes prior to the intraoral exposure. Make sure that the holder has been disinfected (see „Non-critical surfaces excluding monitor screen“).
5. In the case of intraoral exposures with disposable sleeves, the CEREC Omnicam camera should be positioned closer to teeth than without sleeves. If the 3D preview indicates artifacts, check whether the window of the disposable sleeve is clean and wipe it down with alcohol.
3 CEREC Bluecam

3.1 CEREC Bluecam without sapphire glass

### General information

The CEREC Bluecam is a very sensitive optical device and must therefore be handled with the utmost care. Protect the front lens and the prism against scratching and clean them with a clean lint-free cloth and ethanol (commercially available cleaning alcohol) whenever a film is noticed during imaging.

Dental health care providers are advised to select the reprocessing method that aligns with their infection control process. An effective infection control program is practical, reasonable, and reproducible.

Two methods have been validated to reprocess the CEREC Bluecam without sapphire glass between patient care:

- High-level disinfection of the prismatic tube without sapphire glass
  → [17]
- Dry heat sterilization of the prismatic tube without sapphire glass
  → [19]

One of these methods is strongly recommended to be used for the reprocessing of the prismatic tube.
3.1.2 Components of the CEREC Bluecam without sapphire glass

A Press detent to release
B Prismatic tube
C Prism without sapphire glass (bCL / bCB)
D Camera support 6 pcs., Order No. 5945360
E Protective cap
F Front lens

3.1.3 Removing the prismatic tube

A Detent
1. Press the prismatic tube against the camera body.
2. Press detent A.

NOTE
Risk of damaging the front lens or prism.
➢ Push the prismatic tube straight toward the front, do not tilt it.
3. Pull off the prismatic tube.
3.1.4 Refitting the prismatic tube

**NOTE**
Do not use CEREC 2 / CEREC 3 prismatic tubes.

**NOTE**
Risk of damaging the front lens or prism.
- The prismatic tube must not touch the front lens.
- Push the prismatic tube straight toward the camera body; do not tilt it.

➢ Carefully refit the prismatic tube until it locks in place.

3.1.5 Prismatic tube (without sapphire) reprocessing overview

See detailed instructions after summary.

**Prismatic tube for CEREC Bluecam without sapphire glass**

### Pre-Cleaning process
(while prismatic tube is attached to the camera)

1. Clean with a cotton gauze moistened with tap water of potable water quality that meets Federal Clean Water Standards and pH neutral soap
   - or
   - use a clean lint-free cloth which has been soaked in CaviCide
   - or
   - use Cavi Wipes
   - or
   - use pdCARE Wipes
   - or
   - use a clean lint-free cloth which has been soaked in >60% isopropyl alcohol
2. Dry the prismatic tube with a clean lint-free cloth.

### HLD process

1. Use CIDEX® OPA or Sporox II Sterilizing and Disinfecting Solution as disinfectant for high-level disinfection per manufacturer’s instructions.
2. Leave the prismatic tube in CIDEX® OPA for 12 minutes or in Sporox II for 30 minutes at 20°C.
3. Wipe off the prismatic tube. Use a cotton gauze moistened with tap water of potable water quality that meets Federal Clean Water Standards.
4. Dry the prismatic tube with a clean lint-free cloth.

### Dry heat sterilization process

➢ Dry heat 160°C (Sterident Model 200) for 120 minutes (wrapped or unwrapped)
   - or
   - Dry heat 160°C (SteriSURE) for 60 minutes (wrapped or unwrapped).
3.1.6 Pre-cleaning of the prismatic tube

Cleaning process immediately after using the CEREC Bluecam: While the prismatic tube is attached to the camera, wipe off so that any surface contamination cannot harden and adhere to the surface of the prismatic tube.

Use a cotton gauze moistened with tap water of potable water quality that meets Federal Clean Water Standards and pH neutral soap or use a clean lint-free cloth which has first been soaked in one of the cleaning products listed in the „Cleaning agents [→ 3]“ section to remove visible contamination.

Then dry the prismatic tube with a clean lint-free cloth.

3.1.7 Disinfecting the camera body

**NOTE**

Do not spray the CEREC Omnicam or immerse it in cleaning agents or disinfectants!

➢ Use a new cotton gauze moistened with one of the cleaning products listed in the „Cleaning agents [→ 3]“ section. Wipe the camera body first and then the prismatic tube. This step disinfects the camera body and removes cleaning residues from the prismatic tube. Then dry the prismatic tube with a clean lint-free cloth.

3.1.8 High-level disinfection of the prismatic tube without sapphire glass

**NOTE**

Dry heat sterilization and high-level disinfection must not be combined.

The complete process for high-level disinfection is as follows:

**With HLD set**

A HLD set to support the HLD process should be ordered from Sirona with REF 63 46 907.

1. Remove the CEREC camera support (if present).
2. Pre-cleaning (see „Pre-cleaning of the prismatic tube [→ 17]“).
3. Remove the prismatic tube from the CEREC Bluecam (see „Removing the prismatic tube [→ 15]“).
4. Place the protective cap on the camera and place the camera in the camera cradle.
5. Use one of the following disinfectants for the high-level disinfection: CIDEX® OPA, Sporox II.

**CAUTION**

Observe the disinfectant’s manufacturer’s safety indications!
6. Cautiously fill the HLD container up to the 40ml marked ("Bluecam" mark) level per manufacturer’s instructions. A funnel can be used to assist with filling the liquid. Do not spill any disinfectant. If spillage occurs please follow disinfectant’s manufacturer’s safety indications for cleaning.

**NOTE**

Only place the prismatic tube into the container and not the entire CEREC Omnicam.

Ensure that the prismatic tube is placed upright in the disinfectant (glass down) so that the solution cannot penetrate the inside of the prismatic tube.

7. Insert the prismatic tube in the correct position (glass down).

8. Place the lid on the container and leave the prismatic tube at least 12 minutes for CIDEX®OPA or 30 minutes for Sporox II in the disinfectant. While exceeding the recommended immersion time may not cause damage to the prismatic tube, the prismatic tube should be removed as soon as possible after the recommended time.

9. Remove the prismatic tube from the container.

10. Thoroughly rinse the prismatic tube with tap water of potable water quality that meets Federal Clean Water Standards for at least 30 seconds. Ensure that no water is able to penetrate into the interior of the mirror sleeve.

11. Wipe off the prismatic tube. Use a cotton gauze moistened with tap water of potable water quality that meets Federal Clean Water Standards for this purpose.

12. Dry the prismatic tube using a clean soft, lint-free cloth.

13. Store the prismatic tube in such a way that it is protected from contamination until the next use.

14. Remove the protective cap from the camera before use.

15. Carefully re-attach the prismatic tube (see "Refitting the prismatic tube [→ 16]").
3.1.9 **Dry heat sterilization of the prismatic tube without sapphire glass**

**NOTE**

Dry heat sterilization and high-level disinfection must not be combined.

The process for dry heat sterilization is as follows:

1. Remove the CEREC camera support (if present).
2. Pre-cleaning (see „Pre-cleaning of the prismatic tube [→ 17]“).
3. Remove the prismatic tube from the CEREC Bluecam (see „Removing the prismatic tube [→ 15]“).
4. Sterilize the prismatic tube using dry heat at 160°C for 120 minutes (wrapped or unwrapped) or 60 minutes (wrapped or unwrapped).
   - The CPAC Sterident Model 200 and the CPAC SteriSURE have been validated by Sirona Dental Systems.
   - For 120 minutes 160°C the CPAC Sterident Model 200 is to be used.
   - For 60 minutes 160°C the CPAC SteriSURE is to be used.
   - Use only pouches which are suitable for dry heat sterilization cycle of at least 160 °C, 120 minutes.
5. Store the prismatic tube in such a way that it is protected from contamination until the next use.
6. Carefully re-attach the prismatic tube and allow it to lock in place.
   - See section “Refitting the prismatic tube [→ 16]”.

**NOTE**

The prismatic tube changes its color which will not have any negative impact upon the prismatic tube’s durability.

3.2 **CEREC Bluecam with sapphire glass**

3.2.1 **General information**

The CEREC Bluecam is a very sensitive optical device and must therefore be handled with the **utmost care**. Protect the front lens and the prism against scratching and clean them with a clean lint-free cloth and ethanol (commercially available cleaning alcohol) whenever a film is noticed during imaging.

Dental health care providers are advised to select the reprocessing method that aligns with their infection control process. An effective infection control program is practical, reasonable, and reproducible.

One method has been validated to reprocess the CEREC Bluecam with sapphire glass between patient care:

- High-level disinfection of the prismatic tube with sapphire glass [→ 22]

This method is strongly recommended to be used for the reprocessing of the prismatic tube with sapphire glass.
3.2.2 Components of the CEREC Bluecam with sapphire glass

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<td>B</td>
<td>Prismatic tube</td>
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<tr>
<td>C</td>
<td>Prism with sapphire glass (bCL sa / bCB sa)</td>
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<tr>
<td>D</td>
<td>Camera support 6 pcs., Order No. 5945360</td>
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<tr>
<td>E</td>
<td>Protective cap</td>
</tr>
<tr>
<td>F</td>
<td>Front lens</td>
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</table>

3.2.3 Removing the prismatic tube

1. Press the prismatic tube against the camera body.
2. Press detent A.

**NOTE**

- Risk of damaging the front lens or prism.
- Push the prismatic tube straight toward the front, do not tilt it.
3. Pull off the prismatic tube.
3.2.4 Refitting the prismatic tube

**NOTE**
Do not use CEREC 2 / CEREC 3 prismatic tubes.

**NOTE**
Risk of damaging the front lens or prism.
➢ The prismatic tube must not touch the front lens.
➢ Push the prismatic tube straight toward the camera body; do not tilt it.
➢ Carefully refit the prismatic tube until it locks in place.

3.2.5 Prismatic tube (with sapphire glass) reprocessing overview

See detailed instructions after summary.

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<td>(while prismatic tube is attached to the camera)</td>
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<tr>
<td>1. Clean with a cotton gauze moistened with tap water of potable water quality that meets Federal Clean Water Standards and pH neutral soap</td>
</tr>
<tr>
<td>or use a clean lint-free cloth which has been soaked in CaviCide</td>
</tr>
<tr>
<td>or use Cavi Wipes</td>
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<tr>
<td>or use pdCARE Wipes</td>
</tr>
<tr>
<td>or use a clean lint-free cloth which has been soaked in &gt;60% isopropyl alcohol</td>
</tr>
<tr>
<td>2. Dry the prismatic tube with a clean lint-free cloth.</td>
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</table>

| **HLD process**                                     |
| 1. Use CIDEX® OPA or Sporox II Sterilizing and Disinfecting Solution as disinfectant for high-level disinfection per manufacturer’s instructions. |
| 2. Leave the prismatic tube in CIDEX® OPA for 12 minutes or in Sporox II for 30 minutes at 20°C. |
| 3. Wipe off the prismatic tube. Use a cotton gauze moistened with tap water of potable water quality that meets Federal Clean Water Standards. |
| 4. Dry the prismatic tube with a clean lint-free cloth. |

**Dry heat sterilization process**
➢ No sterilization possible.
3.2.6 Pre-cleaning of the prismatic tube

Cleaning process immediately after using the CEREC Bluecam: While the prismatic tube is attached to the camera, wipe off so that any surface contamination cannot harden and adhere to the surface of the prismatic tube.

Use a cotton gauze moistened with tap water of potable water quality that meets Federal Clean Water Standards and pH neutral soap or use a clean lint-free cloth which has first been soaked in one of the cleaning products listed in the „Cleaning agents [→ 3]“ section to remove visible contamination.

Then dry the prismatic tube with a clean lint-free cloth.

3.2.7 Disinfecting the camera body

| NOTE |
| Do not spray the CEREC Omnicam or immerse it in cleaning agents or disinfectants! |

➢ Use a new cotton gauze moistened with one of the cleaning products listed in the „Cleaning agents [→ 3]“ section. Wipe the camera body first and then the prismatic tube. This step disinfects the camera body and removes cleaning residues from the prismatic tube. Then dry the prismatic tube with a clean lint-free cloth.

3.2.8 High-level disinfection of the prismatic tube with sapphire glass

The complete process for high-level disinfection is as follows:

With HLD set

A HLD set to support the HLD process should be ordered from Sirona with REF 63 46 907.

1. Remove the CEREC camera support (if present).
2. Pre-cleaning (see „Pre-cleaning of the prismatic tube [→ 22]“).
3. Remove the prismatic tube from the CEREC Bluecam (see „Removing the prismatic tube [→ 20]“).
4. Place the protective cap on the camera and place the camera in the camera cradle.
5. Use one of the following disinfectants for the high-level disinfection: CIDEX® OPA, Sporox II.

| CAUTION |
| Observe the disinfectant’s manufacturer’s safety indications! |
6. Cautiously fill the HLD container up to the 40ml marked (“Bluecam” mark) level per manufacturer’s instructions. A funnel can be used to assist with filling the liquid. Do not spill any disinfectant. If spillage occurs please follow disinfectant’s manufacturer’s safety indications for cleaning.

NOTE

Only place the prismatic tube into the container and not the entire CEREC Omnicam.
Ensure that the prismatic tube is placed upright in the disinfectant (glass down) so that the solution cannot penetrate the inside of the prismatic tube.

7. Insert the prismatic tube in the correct position (glass down).
8. Place the lid on the container and leave the prismatic tube at least 12 minutes for CIDEX®OPA or 30 minutes for Sporox II in the disinfectant. While exceeding the recommended immersion time may not cause damage to the prismatic tube, the prismatic tube should be removed as soon as possible after the recommended time.
9. Remove the prismatic tube from the container.
10. Thoroughly rinse the prismatic tube with tap water of potable water quality that meets Federal Clean Water Standards for at least 30 seconds. Ensure that no water is able to penetrate into the interior of the mirror sleeve.
11. Wipe off the prismatic tube. Use a cotton gauze moistened with tap water of potable water quality that meets Federal Clean Water Standards for this purpose.
12. Dry the prismatic tube using a clean soft, lint-free cloth.
13. Store the prismatic tube in such a way that it is protected from contamination until the next use.
14. Remove the protective cap from the camera before use.
15. Carefully re-attach the prismatic tube (see “Refitting the prismatic tube [→ 21]”).
We reserve the right to make any alterations which may be required due to technical improvements.