

(8) Maintenance

This chapter discusses instrument cleaning and customer-replaceable parts.

ZEISS recommends routine yearly service and maintenance of the HFA3 by a qualified ZEISS Field Service Engineer.

Only an authorized ZEISS service representative should calibrate the HFA3. Contact a ZEISS service technician if you think your instrument requires calibration.

Cleaning the Instrument

Clean as often as is necessary. Use the methods and cleaners shown in the table below.

Surface	Cleaner	Method
Exterior Panels	Mild detergent or appliance cleaner or glass cleaner containing no ammonia.	Dampen a soft cloth with cleaner and gently wipe the surfaces. Never spray the cleaner directly on the exterior surfaces.
Bowl (Please review the two cautionary Notes that follow this table)	Dust cloth	Remove accumulated dust from the bowl periodically. Wipe the bowl gently with a clean, dry, soft cotton cloth. Use downward strokes that move the dust toward the front edge of the bottom of the bowl, where there is a small opening around the base of the lens holder.
	Distilled water	If dusting the bowl is inadequate, slightly moisten the cloth with distilled water. Whether using a dry or a dampened cloth, always avoid excessive rubbing in one area, as this can create shiny spots or wear through the specially painted surface of the bowl.
	70% Isopropyl alcohol in H ₂ O (Rubbing alcohol)	For small spots on the bowl surface caused by sneezing or coughing during a test, slightly dampen a cotton-tipped applicator with isopropyl alcohol and gently remove the spot. It is best to wet the spot with the tip of the dampened swab first and let it soak briefly. Then, use the swab very gently to remove the deposit.
Touch Screen	Mild glass cleaner containing no ammonia.	Turn off the HFA before cleaning the touch screen. Wipe gently with a moistened cloth. Do not spray cleaner directly on the touch screen.
Forehead & Chin Rests	Mild detergent, alcohol wipes	After each patient, wipe gently using a dampened soft cloth.
Patient Response Button	Mild detergent, alcohol wipes	After each patient, wipe gently using a dampened soft cloth.

Table 8.1



Note: Be careful to avoid scratching, discoloring, or staining the bowl surface. Prior to cleaning the bowl surface, remove all jewelry as it can permanently scratch or damage the painted surface. Be especially careful of long fingernails and fingernail polish contacting the bowl surface, as these can mark or damage the painted surface permanently.



Note: During any bowl cleaning process, be careful to avoid getting either the distilled water or isopropyl alcohol cleaning liquid inside of the fixation target openings or on mirrored surfaces.