

## 8 Cleaning and disinfection

### 8.1 Cleaning

#### 8.1.1 Cleaning optical surfaces

The multi-layer T\* coating of the optical components (e.g. eyepieces, objective lenses) ensures optimum image quality.

Image quality is impaired by even slight contamination of the optics or by a fingerprint. To protect the internal optics from dust, the system should never be left without the objective lens, binocular tube and eyepieces. After use, cover the system to protect it from dust. Always store objective lenses, eyepieces and accessories in dust-free cases when they are not being used.

Clean the exterior surfaces of the optical components (eyepieces, objective lenses) only when necessary:

- Do not use any chemical agents.
- Remove dust from the optical surfaces using a squeeze blower or a clean, grease-free brush.

For the regular cleaning of objective lenses and eyepieces of the surgical microscope, we recommend the optics cleaning set available from ZEISS.

#### 8.1.2 Prevention of fogging

To protect the eyepiece optics from fogging, we recommend using an anti-fogging agent. Anti-fogging agents provided by eyecare professionals for use with eyeglass lenses are also suitable for Zeiss eyepieces.

Please observe the Instructions for Use supplied with each anti-fogging agent.

Anti-fogging agents do not only ensure fog-free eyepiece optics. They also clean the eyepiece optics and protect them from dirt, grease, dust, fluff and fingerprints.

#### 8.1.3 Cleaning mechanical surfaces

All mechanical surfaces of the system can be cleaned by wiping them with a damp cloth. Do not use any aggressive or abrasive cleaning agents.

Clean off any residue using a mixture of 50 % ethyl alcohol and 50 % distilled water plus a dash of household dish-washing liquid.

## 8.2 Disinfection

If the system surfaces need to be disinfected, please note the following:

 **CAUTION!****Risk of damaging the paint on the device!**

The use of unauthorized disinfectants can cause the paint on the device to become damaged.

- Use a disinfectant based on aldehyde or alcohol. The addition of quaternary compounds is acceptable.
- To avoid damaging the surfaces, do not use any disinfecting components other than those specified above.

The maximum concentrations are:

- For alcohol (tested with 2 propanol): 60 %
- For aldehyde (tested with glutaraldehyde): 2%
- For quaternary compounds (tested with DDAC): 0.2%