6.5 Warnings, Safety Cautions, and Notes

Notes either contain additional information on a specific topic or special instructions on the handling of the product.

A **safety note** points out an operation, a process, a condition or an instruction that must be observed strictly to prevent severe damage to the system or loss of data.

A **laser warning** points out an operation, a process, a condition or an instruction that must be observed strictly to prevent serious eye injuries to the persons using the system.

A **high-voltage warning** points out an operation, a process, a condition or an instruction that must be observed strictly to prevent possible injury or death of the persons using the system.

6.7 Safety Notes for the User

Read and observe the safety notes in the Operating Instructions and the safety labels located on the system. Failure to observe the safety notes may lead to serious injuries and to significant damages to the system and loss of data.

Observe the instructions for operating the system located in the Operating Instructions.

Before performing operating steps for the first time with the system, read the corresponding description of the function in the online help first.
You can get an overview of the single functions in the contents file of the online help.

Do not connect any external equipment.
Connect only those electrical devices to the product that are listed in the Operating Instructions. Otherwise, please contact your local Leica service agency or Leica Microsystems CMS GmbH.

Do not look into the eyepieces during the scan process.

Do not look into the eyepieces when switching the beam path in the stand..

Never look directly into a laser beam or a reflection of the laser beam. Avoid all contact with the laser beam.

Never deactivate the laser protection devices. Please read the chapter ”Laser protection devices” to familiarize yourself with the safety devices of the laser scanning microscope.

Do not introduce any reflective objects into the laser beam path.
If, for example, micromanipulators are used in the specimen area, you must ensure that no uncontrolled laser light leaves the safe beam path due to reflection or scattering during the scanning process, as it could pose a hazard to the surrounding area.

Do not change specimens during scanning.

Proceed as follows:

Upright microscope	Inverted microscope
Finish the scan process.	Finish the scan process.
Ensure that no laser radiation is present in the specimen area.	Ensure that no laser radiation is present in the specimen area. Tilt the transmitted-light arm back.
Exchange the specimen. Insert the specimen correctly into the specimen holder.	Exchange the specimen. Insert the specimen correctly into the specimen holder.
	Tilt the transmitted-light arm back into the working position.

Do not change objectives while scanning.

Should it become necessary nevertheless, please follow these procedures:

1 Finish the scan process.

2 Rotate the objective turret so that the objective to be changed is swiveled out of the beam path and points outward.

3 Exchange the objective.

- All unoccupied positions in the objective turret must be closed using the supplied caps.

Do not change any filter cubes or beam splitters during scanning.

Proceed as follows:

Upright microscope	Inverted microscope
Finish the scan process.	Finish the scan process.
Remove the cover of the fluorescence module (see Microscope Stand operating instructions).	Pull out the fluorescence module.
Remove the filter cube/beam splitter.	Remove the filter cube/beam splitter.
Insert the desired filter cube/beam splitter.	Insert the desired filter cube/beam splitter.
Reattach the cover to the front of the fluorescence module.	Reinsert the fluorescence module.

Never disconnect an optical waveguide.

Never remove the scanner from the microscope stand during operation.
Before removing the scanner, the system must be completely switched off.

Do not use an S70 microscope condenser.The large working distance and the low numeric aperture of the S70 microscope condensers could result in a threat from laser radiation. Therefore, only S1 and S23 Leica microscope condensers should be used.