



# Leica CM1850

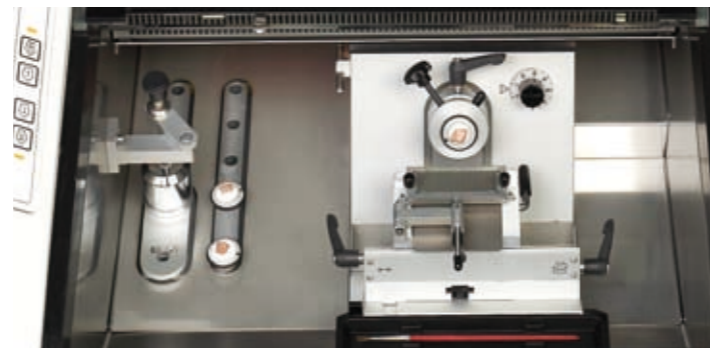
The cryostat for routine histology and clinical pathology

Living up to Life

**Leica**  
MICROSYSTEMS

# Ergonomic Design with Outstanding Safety Features

For more than 125 years Leica has been providing state-of-the-art microtome technology and this commitment is still the driving force behind our new developments. The design of the Leica CM1850 cryostat incorporates the proven excellent features of its predecessor, the Leica CM1800, but additional emphasis was placed on power saving, increased efficiency and operator safety. The result is a versatile cryostat with optimized cooling system, rapid specimen freezing and smooth specimen orientation for the high-quality sectioning demanded in routine histology and clinical pathology. Up-to-date technology with an ergonomic design – for quick and safe sectioning.



## Spacious cryochamber

The perfectly illuminated cryochamber is easily accessible through a large heated sliding window. Ample space is provided for convenient specimen handling. Smooth surfaces inside ensure safe and easy cleaning.

## Enhanced insulation

A new insulation technology leads to power savings of approximately 10 % compared to conventional heat insulation systems. This new feature enhances the durability of the refrigerating system and ensures stable cryochamber temperatures, even when operating in unfavorable environmental conditions in the lab such as high humidity.



## Quick specimen freezing

An actively cooled freezing shelf allows extremely fast specimen freezing down to  $-60\text{ }^{\circ}\text{C}$  with the Peltier unit. Manual defrosting prevents icing of the freezing shelf ensuring that it is always ready to use.



## Functional CE knife holder

The lateral displacement feature of the CE knife holder for disposable blades allows the use of the entire blade length without need to reposition the blade. A glass anti-roll guide integrated into the holder is automatically positioned with blade movement. With the new CE knife holder serial sections down to  $3\text{ }\mu\text{m}$  are easily obtained.



## Easy handling and disinfection

The microtome is protected by a slot cover to allow easy and safe spray disinfection with Leica Cryofect. The smooth specimen orientation with automatic centering and zero notch features outstanding handling capabilities for fast and precise sectioning.

## Self-explanatory control panel

The control panel is divided into functional groups. Large, easy-to-read LEDs ensure ease of operation and prevent operating errors.



## Enclosed drainage system

A closed drainage system ensures that condensation and defrost fluids are collected into a container placed at the front of the cryostat cabinet allowing controlled disposal of fluids. This considerably reduces the release of germs into the air.



## Ergonomic coarse feed panel

The motorized coarse feed control is ergonomically positioned in the left arm rest. Either fast or slow specimen advance and return can be selected.



## Easy-to-service

In developing the Leica CM1850 emphasis was placed on reliable performance and a service-friendly design. All serviceable components are easily accessible.



## At a glance

- Chamber temperature down to  $-35\text{ }^{\circ}\text{C}$
- Actively cooled quick freeze shelf with Peltier unit for freezing down to  $-60\text{ }^{\circ}\text{C}$ .
- Power-saving refrigeration system
- Splash-protected microtome
- Motorized coarse feed at two speeds
- Smooth specimen orientation with automatic centering
- Automatic and manual chamber defrost cycles
- Manual quick freeze shelf defrost cycle
- Ergonomic design with convenient foot rest
- LED
- Compact dimensions
- Efficient service and maintenance concept

# “With the user, for the user”

## Leica Microsystems

Leica Microsystems operates globally in four divisions, where we rank with the market leaders.

### • Life Science Division

The Leica Microsystems Life Science Division supports the imaging needs of the scientific community with advanced innovation and technical expertise for the visualization, measurement, and analysis of microstructures. Our strong focus on understanding scientific applications puts Leica Microsystems' customers at the leading edge of science.

### • Industry Division

The Leica Microsystems Industry Division's focus is to support customers' pursuit of the highest quality end result. Leica Microsystems provide the best and most innovative imaging systems to see, measure, and analyze the microstructures in routine and research industrial applications, materials science, quality control, forensic science investigation, and educational applications.

### • Biosystems Division

The Leica Microsystems Biosystems Division brings histopathology labs and researchers the highest-quality, most comprehensive product range. From patient to pathologist, the range includes the ideal product for each histology step and high-productivity workflow solutions for the entire lab. With complete histology systems featuring innovative automation and Novocastra™ reagents, Leica Microsystems creates better patient care through rapid turnaround, diagnostic confidence, and close customer collaboration.

### • Surgical Division

The Leica Microsystems Surgical Division's focus is to partner with and support surgeons and their care of patients with the highest-quality, most innovative surgical microscope technology today and into the future.

The statement by Ernst Leitz in 1907, “with the user, for the user,” describes the fruitful collaboration with end users and driving force of innovation at Leica Microsystems. We have developed five brand values to live up to this tradition: Pioneering, High-end Quality, Team Spirit, Dedication to Science, and Continuous Improvement. For us, living up to these values means: **Living up to Life.**

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