

# Because Frozen Sections are Vitaly Important

Leica CM1860/CM1860 UV – high-throughput clinical  
cryostat with **AgProtect™** (with and without UV Protection)



# Confidence is Vital

## Deliver diagnostic confidence

When you're preparing fresh tissue for a vital diagnosis, you need to know that your cryostat will reliably deliver quality sections. That's why the Leica CM1860 has the precision to consistently cut thin sections and the reliability that means it's ready whenever a patient needs your skills to provide an accurate diagnosis.

### CONSISTENT THICKNESS

---

Cut consistent, high-quality sections thanks to the precision of the microtome's stepper motor feed-in.



### THE CONTROL YOU NEED

---

Easily align the block face to the knife edge using the specimen orientation system with zero-position centering.

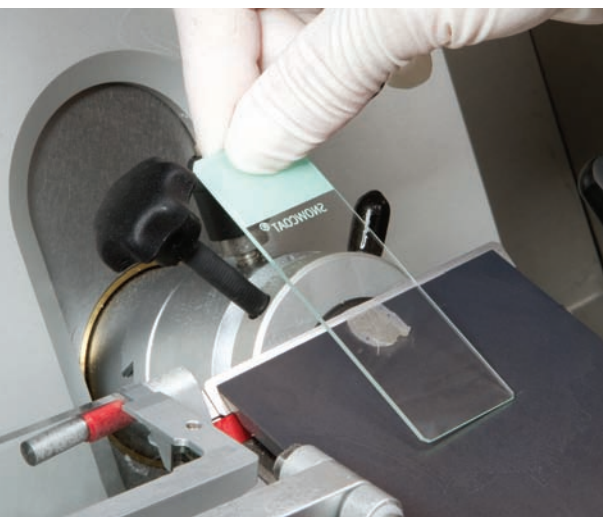


### READY WHEN NEEDED

---

A fully encapsulated microtome for maintenance-free reliability means your Leica CM1860 will be ready when urgent sections are needed.





# Safety is Vital

## Reduce your exposure to infection and injury

Cryomicrotomy requires handling un-fixed tissue and performing repetitive tasks. That's why the Leica CM1860 helps protect against potential biohazardous exposures and provides ergonomic features that can reduce musculoskeletal disorders (MSD).

### PROTECTING ALL STAFF

Protect all staff working close to the cryostat; **AgProtect** nanosilver coating limits bacterial growth on external surfaces and reduces the risk that contact will lead to infection.

### ADDITIONAL OPERATOR SAFETY

Reduce exposure to most bacteria, virus, and fungi by disinfecting the cryochamber at cold temperatures using safe, highly effective, ozone-free UVC irradiation.

(Leica CM1860 UV option)

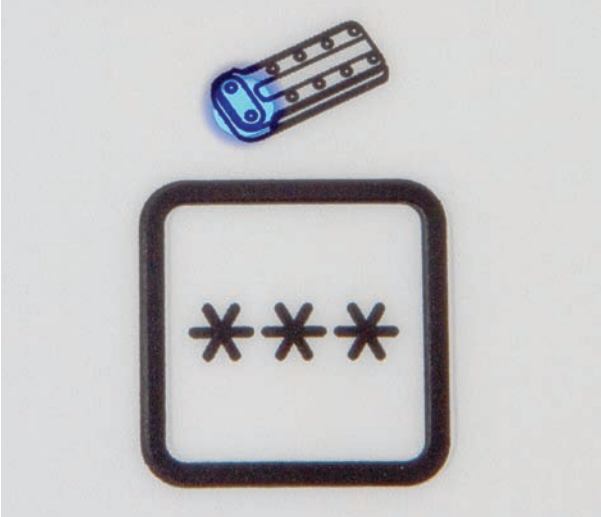
### WORK COMFORTABLY ALL DAY

Reduce the risk of MSDs and improve operator comfort. The ergonomic design features rounded corners, easy-to-access controls, convenient working height and comfortable handwheel placement and design.



Certification proving the effectiveness of UVC disinfection against a range of microorganisms can be downloaded from our website. The certificates include detailed information on the test procedure and the efficacy of UVC disinfection.





# Efficiency is Vital

## Create a Lean Histology™ laboratory

Increase efficiency with a Leica cryostat and better utilize your existing resources. The Leica CM1860 will help improve the workflow and productivity of any high-throughput clinical laboratory.

### ELIMINATE WASTED TIME

Quickly freeze specimens down to -40 °C with the regular freezing shelf. Get additional cooling with the Peltier element providing up to 17 K difference to the shelf temperature. A cover for the shelf keeps it clean and ready to use whenever it's needed.

### REDUCE MAINTENANCE

Increase productivity with the easy-clean flat freezing shelf, the highly accessible cryochamber and a removable condensate bottle for quick waste handling.

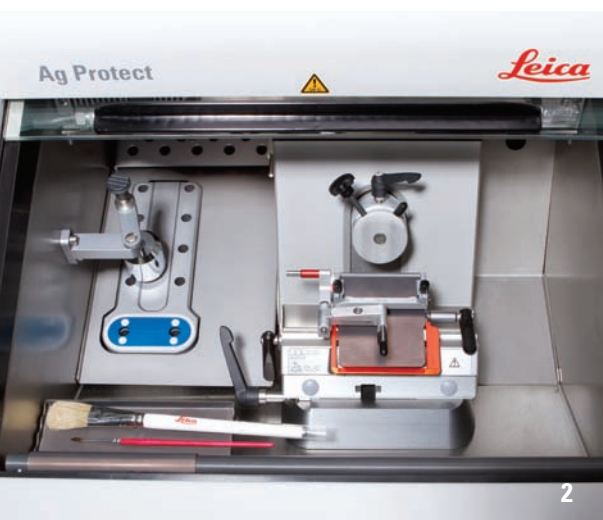
### WORK SMARTER

With critical items close to hand, operators cut more sections in less time. The interface provides fingertip control while an optional movable cryochamber shelf and ample instrument-top storage mean accessories are instantly accessible.



1. Movable cryochamber shelf
2. Spacious cryochamber
3. Freezing shelf with Peltier element





# Technical Specifications

---

## Microtome

|                             |                          |
|-----------------------------|--------------------------|
| Section thickness selection | 1 - 100 µm               |
| Total specimen feed         | 25 mm                    |
| Vertical specimen stroke    | 59 mm                    |
| Maximum specimen size       | 55 x 55 mm or 50 x 80 mm |
| Specimen orientation        | 8° (x, y, z-axis)        |
| Electric coarse feed, slow  | 600 µm/s                 |
| Electric coarse feed, rapid | 900 µm/s                 |

## Refrigeration system

50 Hz/60 Hz

## Cryochamber

|                             |   |
|-----------------------------|---|
| Temperature setting range   | 0 °C to -35 °C (+3 K/-3 K)  |
| Cooling time down to -35 °C | max. 6 hours, at 22 °C ambient temperature  |
| Defrost                     | Automatic hot gas defrost, 1 automatic defrost cycle/24 hours, time-controlled (duration 12 min.) |

## Quick-freeze shelf

|                             |  |
|-----------------------------|--|
| Maximum cooling             | -40 °C (+3 K/-5 K)   |
| Number of freezing stations | 8  |
| Defrost                     | Manual hot gas defrost, time-controlled (duration 12 min.) |

## Peltier element

|                             |  |
|-----------------------------|--|
| Max. temperature difference | 17K, at -35 °C chamber temperature         |
| Number of freezing stations | 2  |
| Defrost                     | In conjunction with the quick-freeze shelf |

## Dimensions and weights

|  |                        |
|--|------------------------|
| Width (w/o handwheel)                              | 600 mm/23.6 in         |
| Width (with handwheel)                             | 730 mm/28.7 in         |
| Depth  | 730 mm/28.7 in         |
| Height   | 1140 mm/44.8 in        |
| Weight (incl. microtome, without specimen cooling) | approx. 135 kg/298 lbs |

## UVC surface disinfection (Leica CM1860 UV only)

30 or 180 minutes, user selectable

Technical specifications subject to change without prior notice.

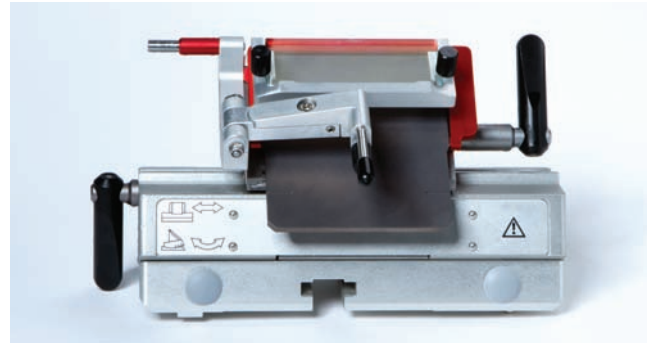


### PREMIUM CE BLADE HOLDER

---

Easily setup for consistency and safety. The Leica CM1860 premium blade holder makes it easy to safely insert, position and remove blades. Operator comfort is also enhanced by a unique palm rest for brush technique users.

- › High stability
- › Blade ejector and finger guard
- › Palm rest for brush technique
- › Easy lateral adjustment
- › Plastic handles prevent frost bite

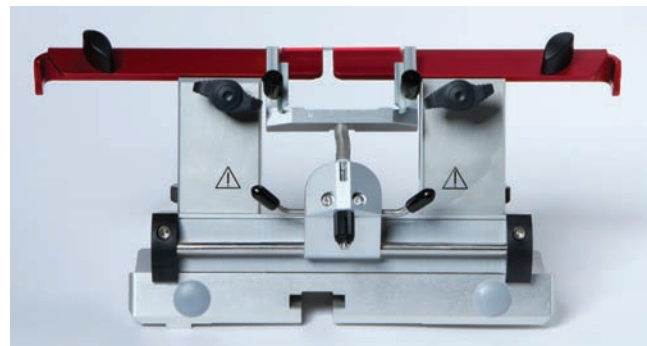


### PREMIUM CN KNIFE HOLDER

---

Consistently cut the hardest specimens. The CM1860 Knife holder CN improves stability, safety and even prevents frost bite so operators can cut more high quality sections with greater safety.

- › High stability
- › Finger guard for increased safety
- › Plastic handles prevent frost bite



### NEW OBJECT PLATE HOLDER

---

Be ready sooner. The new object plate holder is a convenient way to quickly pre-cool object plates. The flexible two-part design maximizes chamber working space while minimizing mess.

- › Large 13 spot holder
- › Smaller 5 spot holder
- › Easily configure chamber with either or both holders
- › Ideally fit in the space behind the freezing shelf

The object plates are compatible with Leica CM1850, CM1510 and CM3050 S cryostats.





## TOTAL CRYOSECTIONING SOLUTIONS

### Leica ST4020 Linear Stainer

Quickly and easily stain surgical frozen sections with this small, fast stainer located near or on top of your cryostat.

### Disposable Blades

Find just the blade you need from Leica Biosystems' diverse range of coated, uncoated, high- and low-profile blades.

### Leica Surgipath Slides

With many color and adhesive options you're sure to find the ideal slide for your application.

### Embedding Media

Leica Biosystems can supply a wide range of embedding media including Tissue Freezing Medium, FSC22™ and Cryo-Gel.

### Dr. Peters Cryoembedding System

Easily achieve proper specimen orientation and perfect embedding with the unique Precision Cryoembedding System.

## LEICA BIOSYSTEMS

Leica Biosystems is a global leader in workflow solutions bringing histopathology laboratories and researchers the highest quality, most comprehensive product range in anatomical pathology. With complete histology systems featuring innovative automation, Novocastra™ reagents and Surgipath® consumables, Leica Biosystems offers the ideal product for each histology step and high-productivity workflow solutions for the entire laboratory.

Leica Biosystems – an international company with a strong network of worldwide customer services:

### North America Sales and Customer Support

|               |              |
|---------------|--------------|
| North America | 800 248 0123 |
|---------------|--------------|

### Asia/Pacific Sales and Customer Support

|             |                 |
|-------------|-----------------|
| Australia   | 1800 625 286    |
| China       | +85 2 2564 6699 |
| Japan       | +81 3 5421 2804 |
| South Korea | +82 2 514 65 43 |
| New Zealand | 0800 400 589    |
| Singapore   | +65 6779 7823   |

### Europe Sales and Customer Support

For detailed contact information about European sales offices or distributors please visit our website.

**Leica Biosystems brings together products, quality and support. Offering a complete solution that helps you advance workflows, enhance diagnostic clarity and deliver what really matters – better patient care.**

