Because Frozen Sections are Vitally 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.

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).

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 easy-clean flat freezing shelf, 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.
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: -40 °C (0 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.
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 Microsystems’ 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 Microsystems 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 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.