



Leica CM1900

The Rapid Sectioning Cryostat
for Routine Diagnostic

Leica
MICROSYSTEMS

Reliable Results in Minutes

Reproducible sectioning results in less than three minutes – the time factor is a major requirement for advanced routine diagnostic in histology and clinical histopathology today. The basis is a technology that allows for extremely rapid specimen freezing and frequent changes in specimen temperature: a cryostat that combines even highest demands for easy operation and greatest safety. The Leica CM1900 is the ideal instrument to meet these special requirements. Its overall engineering and ergonomic concept reflects the profound competence and experience in the design of modern cryostats. The versatile and uncomplicated use as well as reliable results are convincing characteristics, which give the Leica CM1900 its distinctive profile as the instrument of choice for any cryostat application.



Ergonomic: The handwheel

The ergonomically positioned handwheel is extremely smooth and can be locked in the upper position.

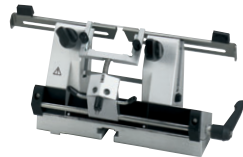


Functional: The control panel

Self-explanatory single-function keys and easily readable LEDs prevent operating errors. The motorized coarse advance is ergonomically positioned in the arm rest at the left and operated via push buttons.



Knife holder CE for disposable blades



Knife holder CN for reusable microtome knives



Knife holder CE-TC for Tungsten Carbide disposable blades

Other features of the Leica CM1900

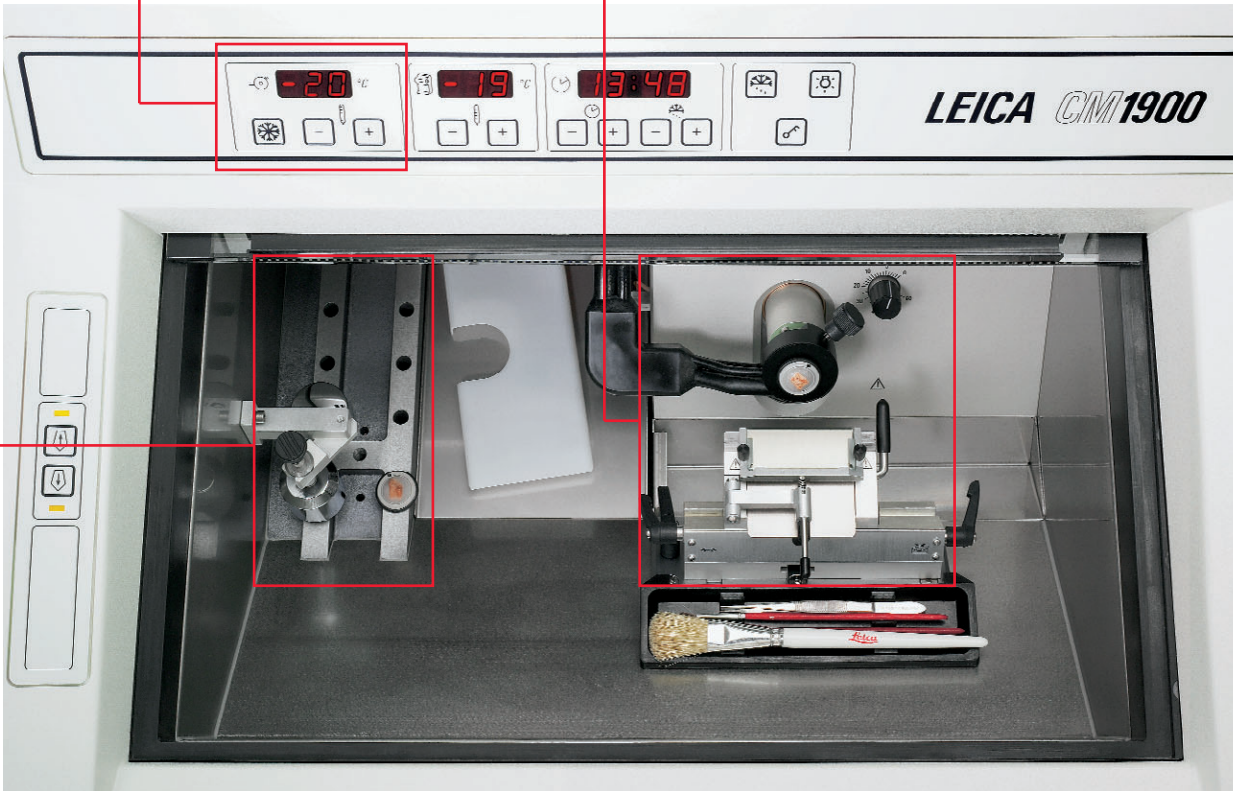
- Automatic hot gas defrosting
- Separate manual defrost cycles for cryochamber and specimen cooling head
- Two separate cooling systems
- Separate specimen temperature control down to -50 °C
- Removable heated sliding window
- CFC-free refrigerants and insulating foams
- For use with standard specimen discs and Miles specimen holders
- Specimen disc fixation with a single screw
- Handwheel lock
- Real time indication
- Cryostat cabinet on rollers
- Electronic memory with battery backup
- Specimen orientation optional
- Specimen retraction optional

Rapid: Specimen temperature control

Rapid and frequent changes in specimen temperature allow the sectioning of various different kinds of specimens.

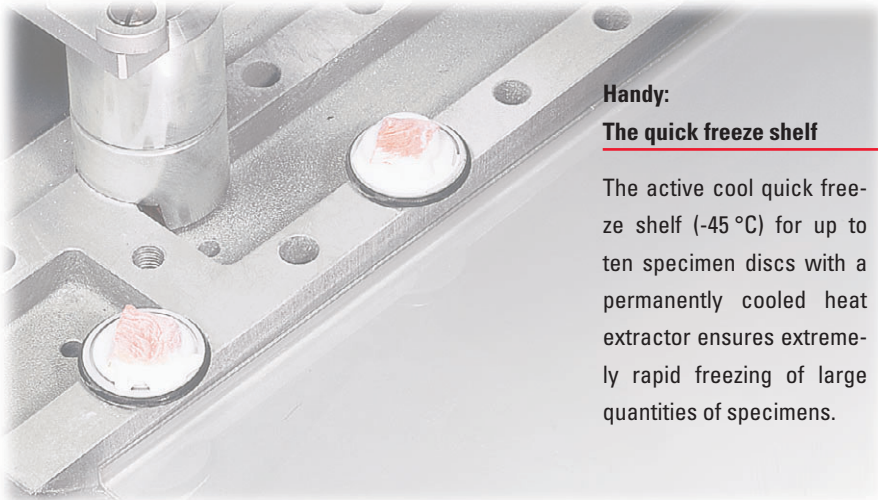
Unique: The enclosed microtome

The high-precision microtome is enclosed in a special housing to protect it from contamination. The working area is therefore easy to clean and disinfect, without the need to remove the microtome from the cryochamber.



Handy: The quick freeze shelf

The active cool quick freeze shelf (-45 °C) for up to ten specimen discs with a permanently cooled heat extractor ensures extremely rapid freezing of large quantities of specimens.



Spacious: The stainless steel cryochamber

The open top cryochamber with separate specimen cooling is easily accessible and offers ample space for convenient working and storage of specimens. An integrated drain system simplifies cleaning and disinfection.



Practical: Spray disinfection

The Leica CM1900 has been designed to be suitable for disinfection with Leica Cryofect, a spray-on disinfectant which kills bacteria, fungi and viruses – e.g. Hepatitis B, HIV and Polio – also in the low-temperature environment of a cryostat.

Use biocides safely. Always read the label and product information before use.

Leica CM1900 – Technical specifications

Section thickness setting: 1 to 60 µm
 Maximum specimen size: 55 mm Ø
 Horizontal specimen feed: 25 mm
 Vertical stroke: 59 mm
 Specimen retraction: optional
 Specimen orientation: optional
 Trimming: via motorized coarse feed
 Motorized coarse feed: 0.8 mm/sec

Specimen cooling:

Specimen temperature: -10 °C down to -50 °C
 in 1 K increments *
 Defrosting: manual defrost cycl.

Cryochamber cooling:

Temperature range: 0 °C down to -35 °C *
 Cooling time down to -35 °C: 4 h *
 Defrosting: programmable;
 1 automatic defrost cycle/24 h
 duration: 9 min
 manual defrost cycle
 Temperature of quick freeze shelf: down to - 45 °C
 (depending on the chamber temperature)

Power draw: 1800 VA

Cryocabinet:

Dimensions (w x h x d): 890 x 1200 x 730 mm
 Weight (including microtome): 170 kg, 375 lbs

* at ambient temperature of 22°C and atmospheric humidity of 60%

Manufactured in compliance with UL-, CSA- and VDE standards.
 State-of-the-art R&D, manufacturing and quality assurance procedures – registered under DIN EN ISO 9001 – ensure highest quality and reliability.

Wide range of accessories available on request.
 Technical specifications subject to change without prior notice.

For further information please contact your local Leica sales company

Australia:	Gladesville/NSW	Phone +61 2 9897 9700	Fax +61 2 9817 8358
Austria:	Vienna	Phone +43 1 486 80 50	Fax +43 1 486 80 50 30
Canada:	Richmond Hill/Ontario	Phone +1 905 762 2000	Fax +1 905 762 8937
Denmark:	Herlev	Phone +45 4454 0101	Fax +45 4454 0111
France:	Rueil-Malmaison Cedex	Phone +33 1 4732 8585	Fax +33 1 4732 85 86
Germany:	Bensheim	Phone +49 6251 136 0	Fax +49 6251 136 155
Italy:	Milan	Phone +39 0257 486.1	Fax +39 0257 40 3273
Japan:	Tokyo	Phone +81 3 5435 9603	Fax +81 3 5435 9615
Korea:	Seoul	Phone +82 2 514 6543	Fax +82 2 514 6548
Netherlands:	Rijswijk	Phone +31 70 4132130	Fax +31 70 4132139
People's Republic of China:	Hong Kong	Phone +852 2 564 6699	Fax +852 2 564 4163
Portugal:	Lisbon	Phone +351 1 388 9112	Fax +351 1 385 4668
Singapore:	Singapore	Phone +65 6779 7823	Fax +65 6773 0628
Spain:	Barcelona	Phone +34 93 494 9530	Fax +34 93 494 9532
Sweden:	Sollentuna	Phone +46 8 6254 545	Fax +46 8 6254 510
Switzerland:	Glattbrugg	Phone +41 1 809 34 34	Fax +41 1 809 34 44
United Kingdom:	Milton Keynes	Phone +44 1 908 246246	Fax +44 1 908 609992
USA:	Bannockburn/Illinois	Phone +1 847 405 0123	Fax +1 847 405 0164

...and more than 100 national distributors.

Leica Microsystems Nussloch GmbH
 Heidelberger Strasse 17-19
 D-69226 Nussloch

Telephone: (06224) 143-0
 Fax: (06224) 143 200
 e-mail: histo_info@leica-microsystems.com
www.leica-microsystems.com

Leica
 MICROSYSTEMS