



Instruction manual **Cryostat M630**

Semi-automatic Cryostat



Rev. 1.2 – 12/2018

Manufacturer
and publisher: **MEDITE GmbH**
Wollenweberstrasse 12
31303 Burgdorf
Germany

Read manual closely before putting device into operation • Keep manual accessible with device • Contact customer service in case of questions • Specifications are subject to change without prior notice.



Declaration of Conformity

Type of instrument: Semi-automatic cryostat
Model: M630
Serial No.:

We do hereby certify that the above mentioned product meets the requirements set forth in the CE Directives indicated below including all changes and addendums to date thereto. The above mentioned product has been controlled and meets the following directives and standards:

- **Directive 98/79/EC** **In Vitro Diagnostic Medical Devices**

A handwritten signature in blue ink, appearing to read 'S. V. Rump'.

Burgdorf, 20.06.2018

Stephen V. Rump – Managing Director

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1. Safety Instructions

1.1. About this Manual

This manual will help you to handling the device. Please read the manual completely and follow the advice. Acquaint yourself to the control elements and their functionality by studying the figures. This way, an adequate use of the device, is ensured. If you have problems, feel free to contact the manufacturer.

The device present is offered with two different power supply variations. Please check the type plate to make sure that the device's power supply matches your local power supply. Different power supply variations mean no difference in handling and functionality of the device.

1.2. Used Symbols and their meanings



Warning!

This symbol warns you of risks for machine, material or environment. Warnings are marked with a yellow warning triangle.



Danger!

This symbol warns you of risks for the life or health of persons. Danger warnings are marked by a red framed triangle.



Cut hazard!

Working with this machine contain hazards through cuts for the person.



Frostbite hazard!

Working with this machine contain hazard through extreme cold surfaces.



Crushing hazard!

Working with this machine contain hazard through crushing.



Biohazard!

Working with this machine contain hazards through biologic substances or organism.

**Notice**

Notices, meaning important information for the user, that are not classified as danger or warning, are marked with an information symbol.

(Number)**(Number)**

Numbers in clamps refer to positions in figures.

1.3. Intended use

The cryostat M630 is a semi-automatic cryostat and has an UV disinfection system and a motor to control the delivery of the sample. The M630 can be used for all work in the thick- and thin-film technology in biology, medicine and research. A use for processing food is not permitted.



The operating, maintenance and service conditions specified in the operating instructions must be strictly adhered to.



Don't use the device in an explosive area.



Unauthorized modifications to the device are forbidden due to safety reasons. When replacement damaged parts of the device only original spare parts must be used.

1.4. Approved Operators

Only persons who have been thoroughly trained by the operator and commissioned can handle the M630. The operator is responsible for other people in the work area. The operating company make the instruction manual accessible to the operator and make sure, that the operator have read and understand the instruction manual.

1.5. Hazard Sources



Working with the machine causes cutting risks starting from the blade holder and the object clamp (moving).



Working with the shock freeze can lead to frostbite on the hands and arms. Always wear protective clothing when working with the M630 cryostat.



Working with the machine causes crushing hazards starting from the object clamp and the handwheel.

1.6. Environmental conditions

The permissible ambient conditions for operation of the device are listed below. Operation at other ambient conditions is not permitted.

- Operation is only allowed in enclosed rooms,
- Ambient temperature from +15°C to +30°C (without strong fluctuations),
- Relative air humidity max 80% non-condensing,
- The unit must not be exposed to direct sunlight,
- Maximum height of 2000 m (according to EN 61010-1:2001),
- Mains voltage fluctuation is within + / - 10 % of rated voltage,
- 20cm circumferential distance to the wall and other objects
-

1.7. Transport and stocking

Observe the following notes for transport and stocking the M630.



„Top“: The packaged unit must always be transported and stored so that the arrows point upwards at any time.



"Protect from wetness": The packaged unit must be protected from excessive humidity and must be stored and transported in covered.



The M630 cryostat is delivered in a safety transport box. Always transport these upright and avoid shocks and extreme temperature fluctuations! For the storage of the device, an ambient temperature of + 5 ° C to + 50 ° C is permitted. The M630 cryostat should only be transported in the shipping box provided. Never dispose of the transport box, but store the transport box with all parts supplied.

1.8. Protection measure at the device



The protective-devices on the device and accessories must not be removed or changed. The device should only be opened and repaired by Medite authorized service technicians. Only original parts and approved original accessories may be used.

1.8.1. Blade holder

The blade holder of the Cryostat M630 has a finger guard, which protects the blade from damage and protects the user from cuts. Always put the finger guard over the blade whenever you are not using or transporting the Cryostat M630.



If possible, the object should first be inserted before the blade is clamped in the blade carrier. Always remove the blade or blade before changing the blade carrier!



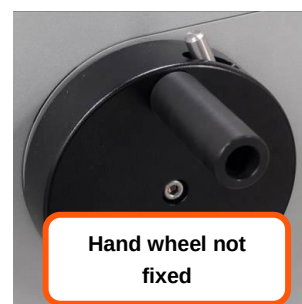
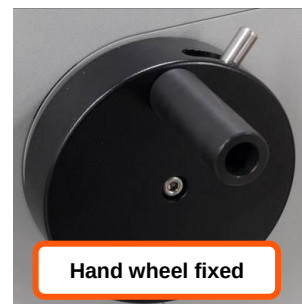
- When setting up preparations and knives, the finger guard should also be used to reduce the risk of injury.
- A blade that is not used should always be stored in the blade box!
- Never try to catch a falling blade!
- Never check the sharpness of the microtome blade with your finger. The cutting edge is extremely sharp!
- Be careful when cutting.

1.8.2. Handwheel locking

The M630 cryostat has a lock function that locks the hand wheel and prevents it from turning on its own.

To secure the hand wheel, turn the handle of the hand wheel to the up position and push the lever backwards. Then check that the lever is fully in the rear position and check that the hand wheel continues to turn. If the hand wheel can no longer be turned, the hand wheel is completely secured against rotation.

To release the hand wheel, push the lever to the front position.





- Fix the handwheel after each use or transport to protect the cryostat from damage.
- When setting up the specimen and blade, the hand wheel should be fixed to reduce the risk of injury.

1.8.3. UV disinfection system

The cryostat M630 has an integrated UV disinfection system, which takes over the disinfection of all surfaces in the cryostat chamber. Once the glass is opened, the UV lamp turns off. Thus, it can't happen that the user is exposed to dangerous UV radiation. The disinfection system can be activated or deactivated via the menu.

If the UV disinfection system not switches off when the window is opened, contact a service technician immediately.

1.9. Personal protective equipment

When handling the M630 cryostat it is necessary to wear protective gloves in accordance with the already applicable safety guidelines in order to avoid direct contact with biological samples. The same applies, for example, when cleaning the device.



Always wear protective clothing (such as lab coats, protective gloves) to prevent accidental contact with biological samples!

2. Information about the Cryostat M630

2.1. Shipment

The shipment includes:

- 1x Cryostat M630,
- 1x Power cable 230V / 115V,
- 1x TissueCut microtome blade,
- 1x Object clamp,
- 1x Object plate, diameter 40mm,
- 5x Object plate, diameter 30mm,
- 1x Brush with magnetic tip,
- 1x Waste container,
- 1x Instruction manual cryostat M630.

2.2. Technical Data

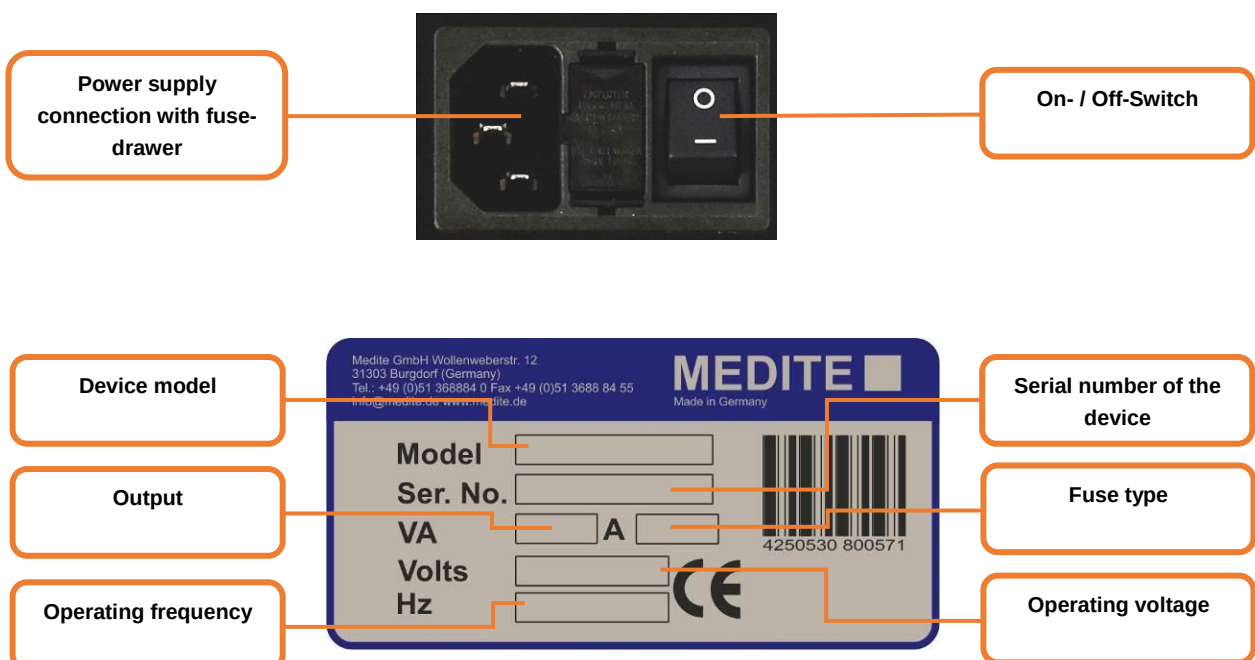
Type	Cryostat M630	
Fine cut thickness:	1 µm to 100 µm in 1-µm-Steps	
Trim range:	0 µm to 100 µm in 5-µm Steps 100 µm to 500 µm in 50-µm- Steps	
Specimen retraction:	30 µm	
Horizontal specimen feed:	30mm	
Vertical lift:	68 mm	
Specimen fine orientation:	360° and 8° in x- and y-axis	
Volume of cooling-chamber:	ca. 90 litre	
Quick freeze spot:	ΔT 20°C	
Max. cooling temperature ¹⁾ :	-35 °C	
Chamber temperature	The chamber temperature will be influenced by ambient temperature by -0.7 °C increase for every 1°C ambient temperature increase.	
Defrost function:	ends at +10 °C	
Sound level:	48db(A)	
Dimensions (W/D/H):	1300 x 670 x 840 mm	
Weight:	160 kg	
Connections:	230 VAC / 50 - 60 Hz	115 VAC / 50 - 60 Hz
Power input:	220 VA	
¹⁾ Measured by an ambient temperature of 21 °C.		

2.3. Overall view

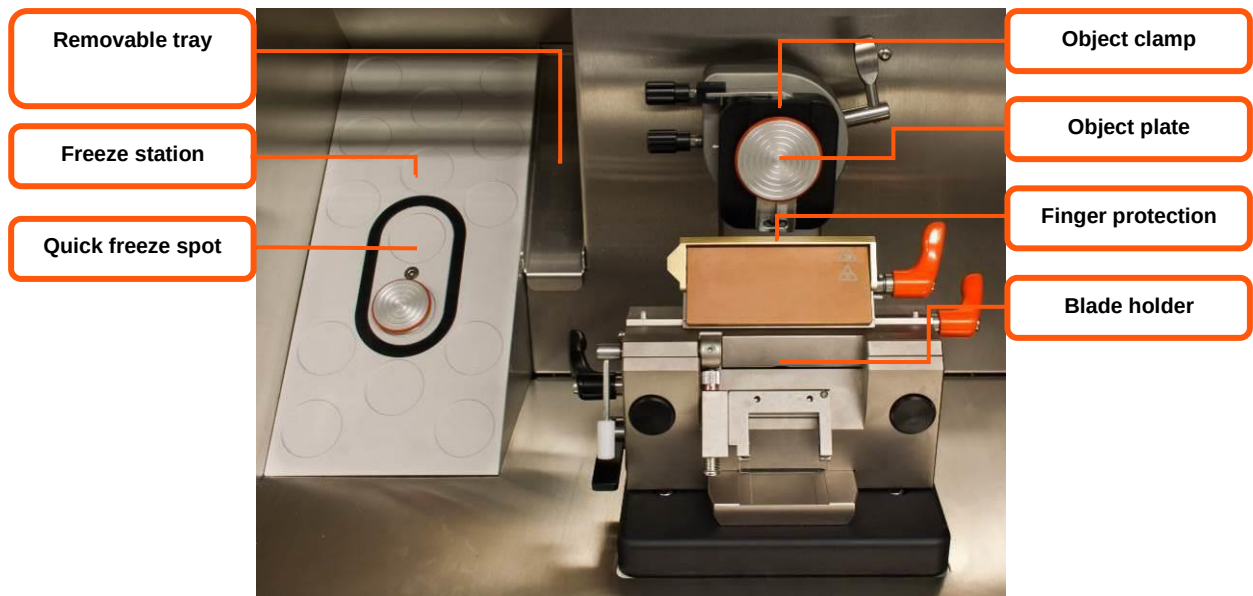
2.3.1. Front view



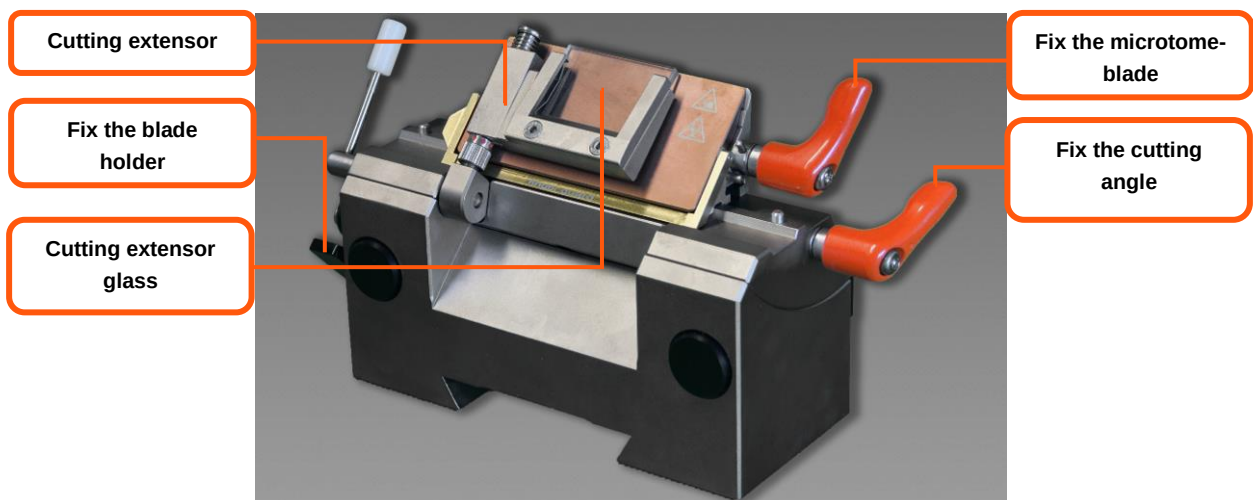
2.3.2. Power supply and type plate



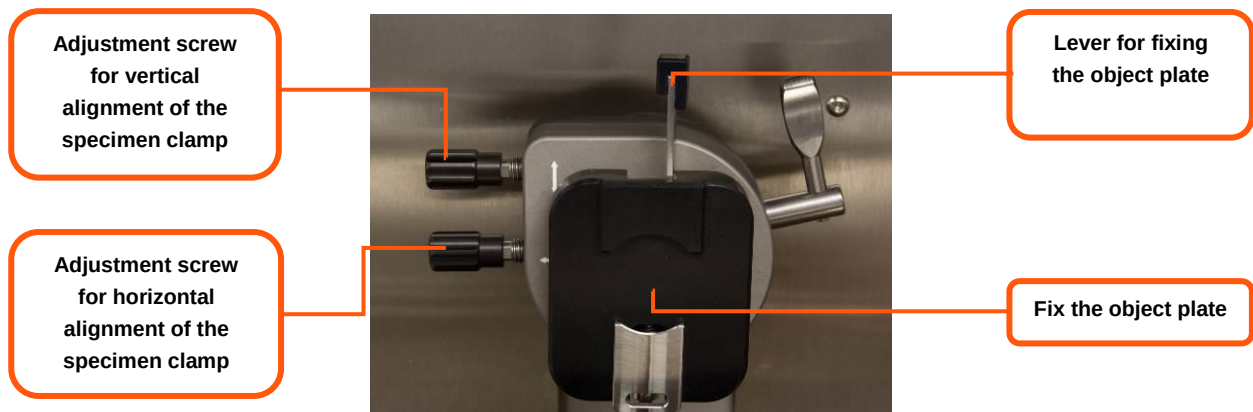
2.3.3. Cryostat Chamber



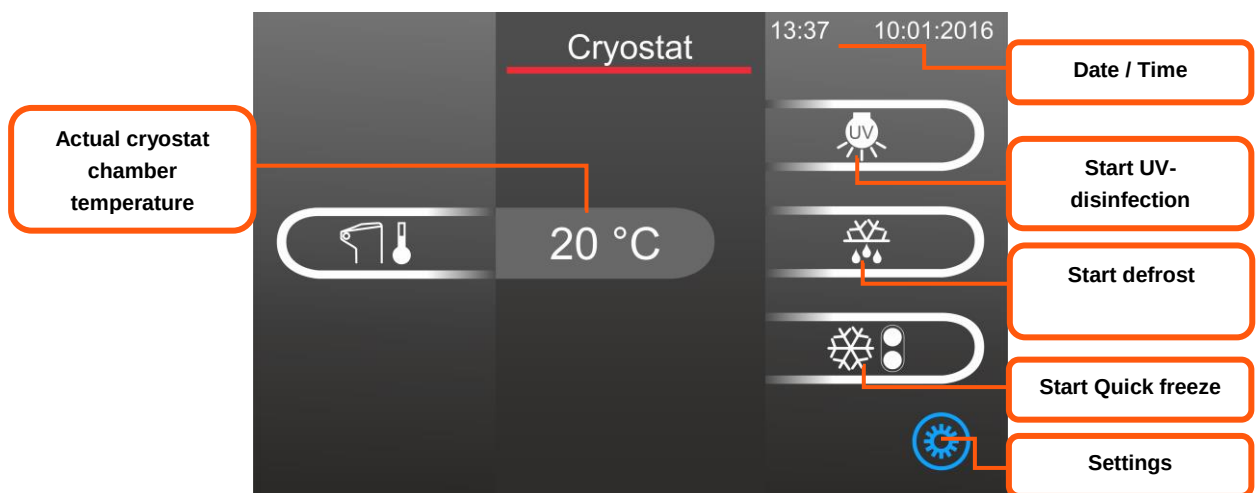
2.3.4. Blade holder (optional)



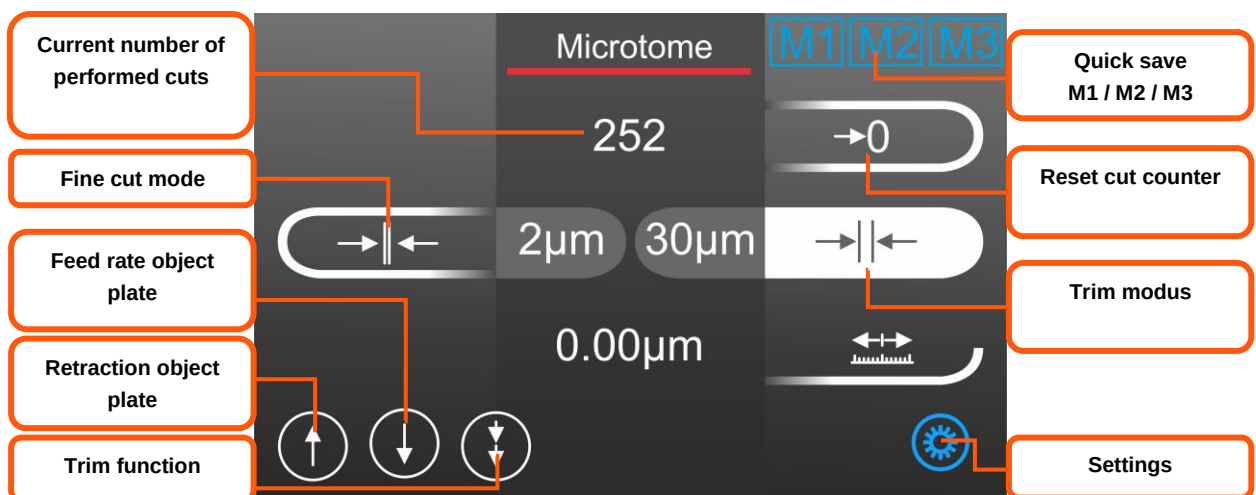
2.3.5. Object clamp



2.3.6. Touch-screen cryostat chamber



2.3.7. Touch-screen microtome



3. Setting up the device

3.1. Overview



Before turning on the M630 Cryostat for the first time, allow it to equilibrate to room temperature for at least 2 hours

3.2. Safety measures at the installation site

The M630 cryostat must be installed on a stable, level and level surface to ensure safe and reliable operation.

4. Start-up the device

4.1. Power-on

Check that the on / off switch on the back of the M630 is at "0" (off). If not, press the switch to the "0" position. Insert the plug of the power cable into the socket of the M630 cryostat. Press the switch in the "I" (on) position. As soon as the displays of the M630 has switched on, the M630 cryostat is ready for use.

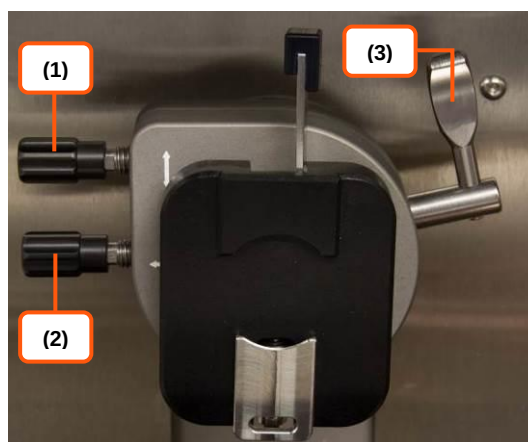
4.2. Prepare the object-clamp

4.2.1. Object orientation

The angle of the specimen clamp can be adjusted by 8 ° in all directions.

To adjust the angle, push the lever (3) towards the user to the front position. Then the object clamp can be rotated 360 ° and adjusted by 8 ° in the inclination by means of the screws (1, 2). The adjusting screw (1) is for vertical adjustment, adjusting screw (2) for horizontal adjustment.

Once all settings have been made, the lever (3) must be pushed away by the user to fix the specimen clip again.



Make sure that the surface of the specimen clamp is free of contaminants to ensure optimal fixation of the specimen.



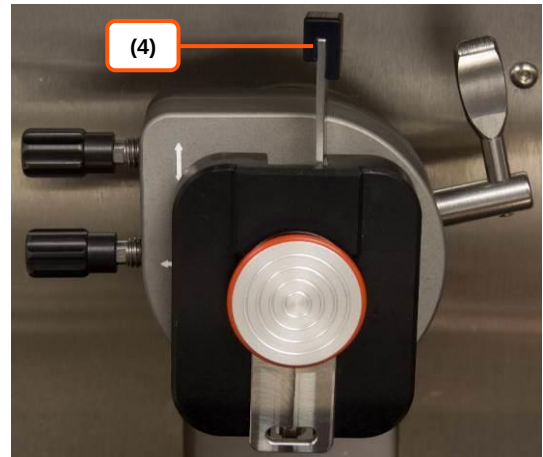
The lever (3) must always be released before starting the angle adjustment, otherwise the specimen clip may be damaged.



The adjusting screws for the angle adjustment have a snap-in function for centering the object clamp. To center the object clamp, turn the two screws until they click into place.

4.2.2. Insert the object plate

Push the lever (4) upwards and at the same time insert the object plate into the object clamp. Press the lever (4) down to fix the object plate. To remove the object plate, push the lever (4) upwards and remove the object plate.



4.3. Prepare the blade holder



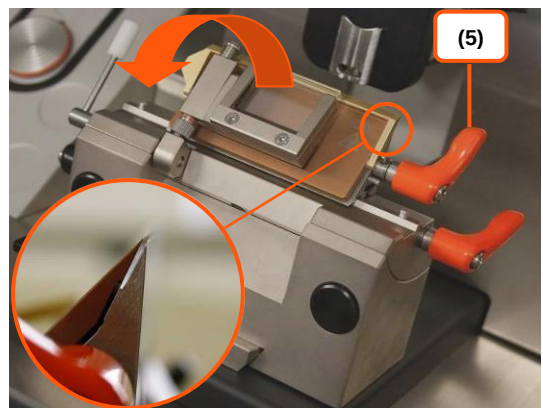
Before using the cryostat for the first time, remove the blade dummy from the holder of the blade holder.



The blade holder has ergonomic handles, which can be placed in any position. Gently pull out the handle and turn it to the desired position.

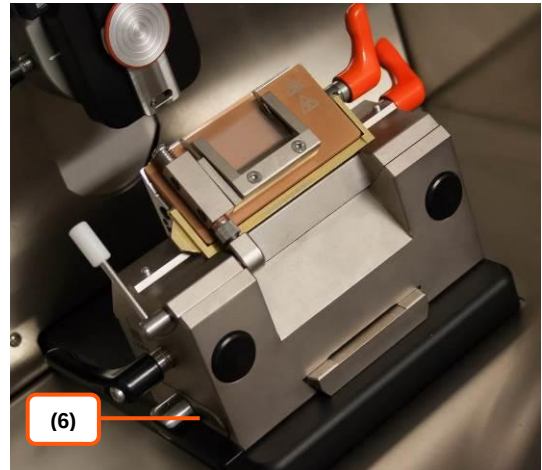
4.3.1. Insert the microtome blade

Lay the finger guard and, if necessary, the cut expander forward and push the lever (5) towards the user. The holding jaws for inserting the microtome blade open. Carefully insert the microtome blade into the gap and push the lever (5) away from the user to fix the microtome blade.



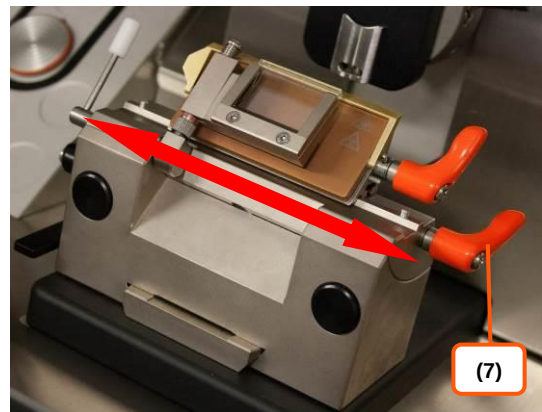
4.3.2. Setup the blade holder

The complete blade holder can be pushed back and forth or removed. Push the lever (6) towards the user to release the blade holder. Move the blade holder to the new position and push the lever (6) away from the user to fix the blade holder.



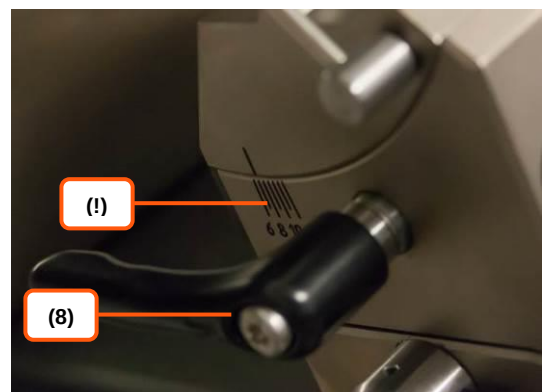
4.3.3. Setup the upper part of the blade holder

The upper part of the blade holder can be moved to the right or left. Push the lever (7) away from the user to release the upper part of the blade holder. Move the upper part of the blade holder to the new position and push the lever (7) towards the user to fix the upper part of the blade holder.



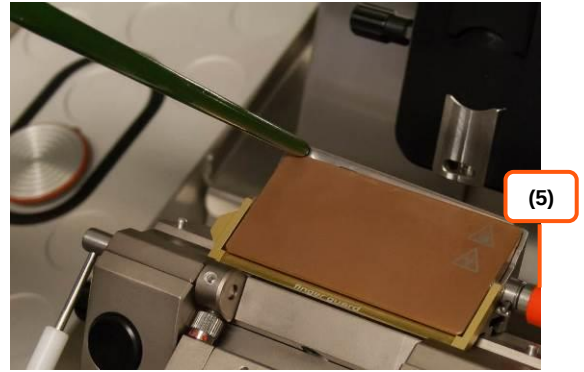
4.3.4. Setup the angle of the blade holder

The blade holder has a scale (!) On the left side for the angle adjustment. The angle can be changed between 6 and 12°. Push the lever (8) towards the user. Then set the desired angle and push the lever (8) away from the user to fix the blade holder.



4.3.5. Change the microtome blade

Fold down the finger guard of the microtome blade and push the lever (5) toward the user. Take the cleaning brush to hand. It has an integrated magnet on the back, which makes it easier to remove the microtome blade. Move the back of the cleaning brush to the microtome blade until the magnet adheres to the blade and gently pull the blade out of the blade holder head. Insert the new microtome blade into the blade holder and push the lever (5) away from the user.

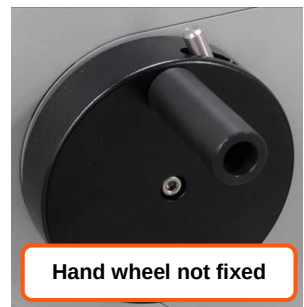
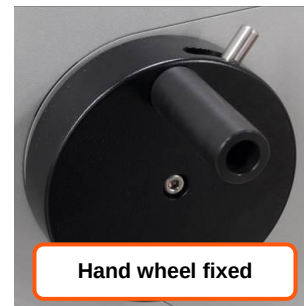


4.4. Use the hand brake

The M630 cryostat has a lock that secures or secures the hand wheel.

To secure the hand wheel, turn the handle of the hand wheel to the up position and push the lever to the rear position. Then check that the lever is fully in the rear position and check that the hand wheel continues to turn. If the hand wheel can no longer be turned, the hand wheel is completely secured against rotation.

To release the hand wheel, push the lever to the front position.



- Fix the handwheel after each use or transport to protect the cryostat from damage.
- When setting up the specimen and blade, the hand wheel should be fixed to reduce the risk of injury.
- Be careful when cutting



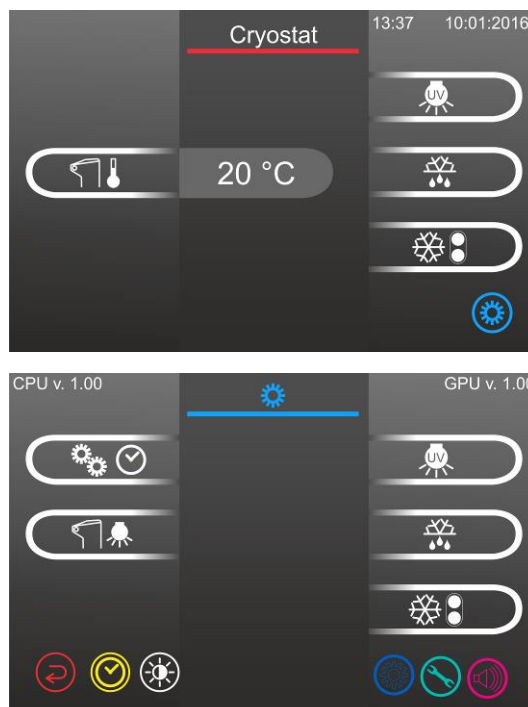
Do not turn the handwheel when the brake is activated! This may damage the device.

4.5. Setup the parameter of the cryostat chamber

4.5.1.Menu

Press . Now you can change following:

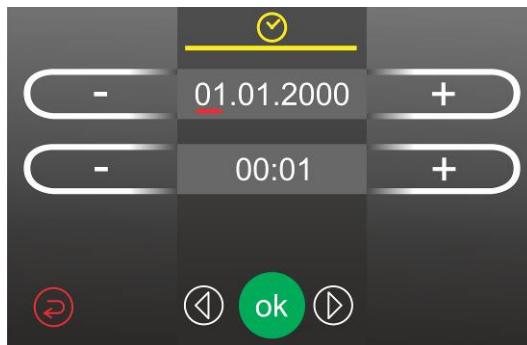
- Time / date
- Display brightness
- Brightness cryostat chamber
- Daily UV cycle
- Daily defrost cycle
- Duration quick freeze process
- Working time settings
- Default settings
- Service menu
- Keytone on/off



4.5.2.Setup time / date

Make sure that the red mark (—) is below the day you want to change. Set the date of the current day with  , then navigate the red mark below the month with . Set the current month with   and press again  until the red mark is below the year. Now set the current year with  .

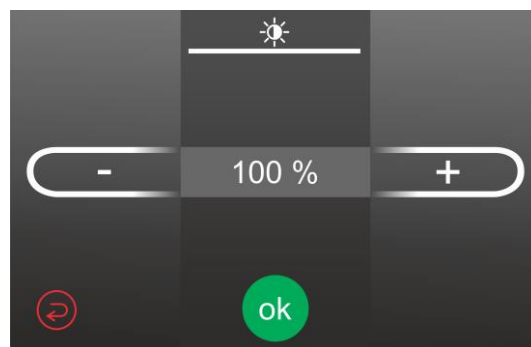
Navigate with  below the hour display and change the hour display with  . Press  again until the red mark is below the minutes display and change it with  . Press  to save the setting or  to abort.



The red mark (—) always shows the number which is currently changeable with  . You can navigate through the numbers which can be changed with  .

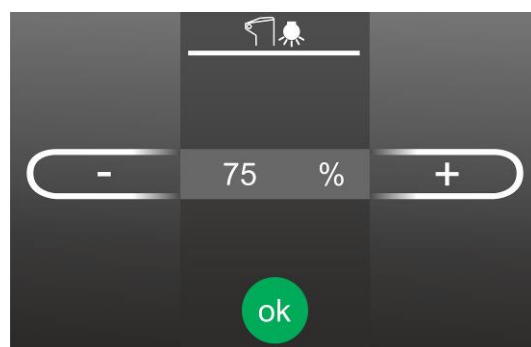
4.5.3. Set up brightness of the display

Press . To increase or decrease the brightness of the display, press  . Press  to save the setting.



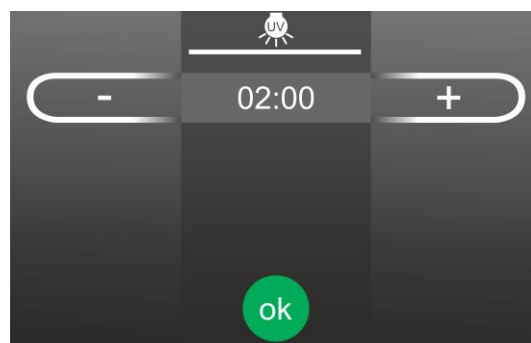
4.5.4. Set up brightness of cryostat chamber

Press . To increase or decrease the brightness of the cryostat chamber, press  . Press  to save the setting.



4.5.5. Setting the start time for the UV lamp

Press  to setting the daytime for the start of the UV lamp. The time is set in 15-minute steps. Press   to set the time of the UV lamp. Press  to save the setting. The UV lamp starts at the selected time.

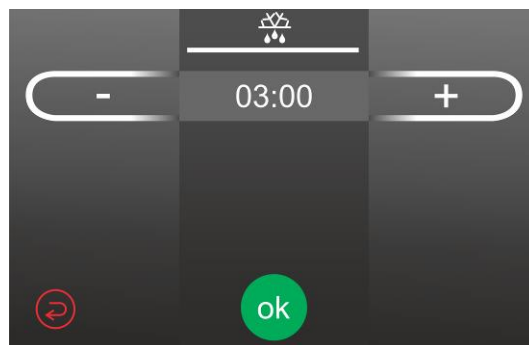


The UV lamp starts at the selected time with a fixed duration of 180 minutes.

4.5.6. Setting the start time for the defrost function

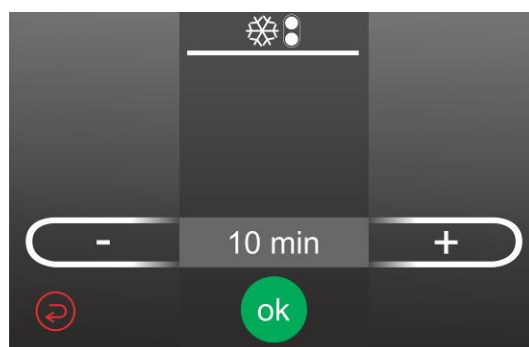
Press  to setting the daytime for the start of the defrost function. The time is set in 15-minute steps. Press   to set the time. Press  to save the setting or  to cancel the selection and exit the menu.

The defrosting of the chamber starts at the selected time.



4.5.7. Set up duration of the quick freeze process

Press  to enter the menu where you can set the duration of the quick freeze process. To increase or decrease the duration of the fast freeze process, press  . Press   to increase or decrease the duration (min) of the quick freeze process. Press  to save the selection or  to cancel the selection and exit the menu.

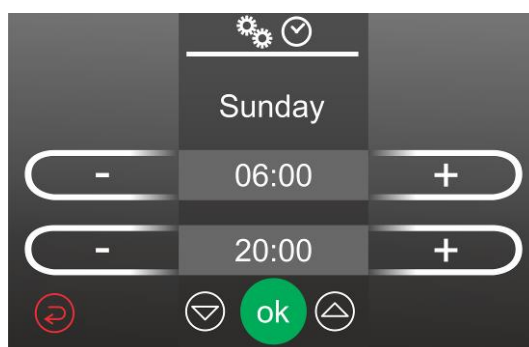


4.5.8. Set up working time

Press . In this menu, you can set the time at which the Cryostat M630 should go into working mode. In this mode, it cools the cryostat chamber to the set cooling temperature. Outside the working mode, the M630 cryostat cools the cryostat chamber to about -10 ° C. You can set the time for each day of the week in 15-minute increments. To set the time, proceed as follows:

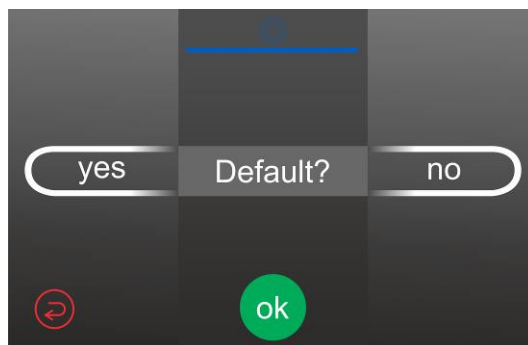
Use the button   to select the desired day of the week. Press   to set the desired time, in which the cryostat cool to the set temperature. Press  to save the selection or  to cancel the selection and exit the menu.

In the example, the period was set that the cryostat cool down the cryostat chamber on Sunday from 6:00am to 8:00pm.



4.5.9. Default settings

Press . In this menu, you can reset the settings of the M630 cryostat to the default settings (factory settings). Press  to reset the settings to the default settings or  to keep the current settings. Press  to save the selection.



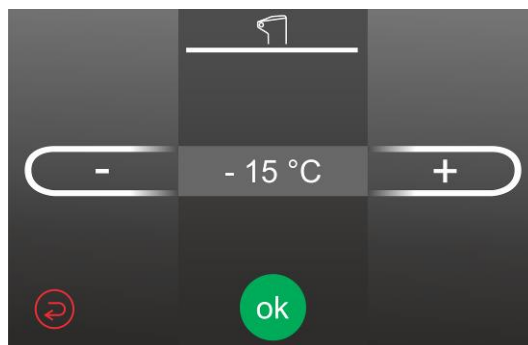
4.5.10. Service Menu



The service menu is reserved for the service technician and may only be accessed by the service technician.

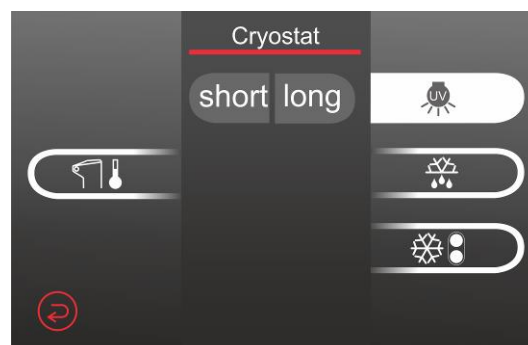
4.5.11. Set up the temperature

Press in the main window . To increase or decrease the temperature of the cryostat chamber, press  . Press  to save the selection or  to cancel the selection and exit the menu.

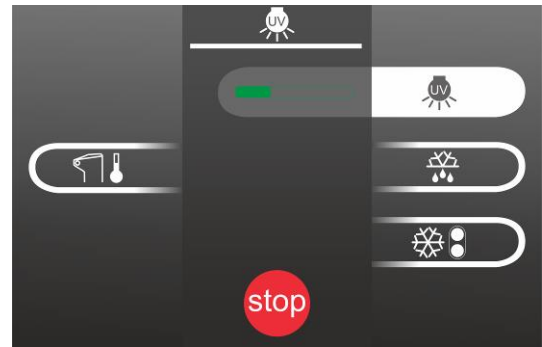


4.5.12. Starting the uv lamp

Press . Then you can choose between a short () and a long () operating mode of the UV lamp. The illumination time of the UV lamp is 30 minutes in the short operating mode and 180 minutes in the long operating mode. Press  /  to turn on the UV lamp.



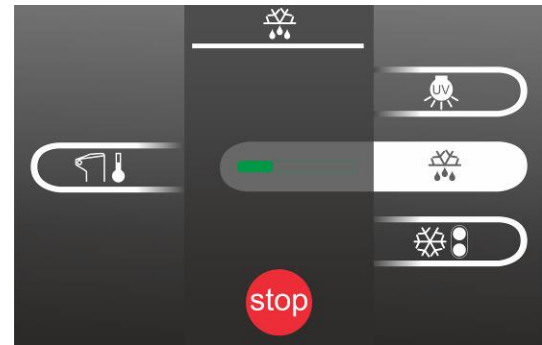
The green bar  serves as progress of the lighting duration. Press  to stop the UV disinfection and turn off the UV lamp.



4.5.13. Defrost mode

Press  to manually activate the defrost mode. The cryostat now starts defrosting the cryostat chamber.

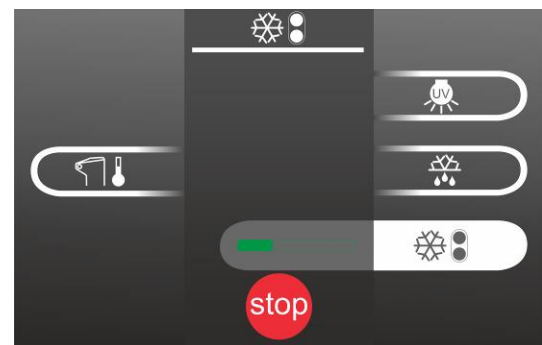
The green bar  serves as a status display. Press  to stop the defrosting of the cryostat chamber.



4.5.14. Activation of the quick freeze mode

With the quick freeze mode, you can quickly and efficiently cool down the tissue sample and prepare it for cutting. Press  to activate the quick freeze function.

The green bar  serves as progress of the operating time of the quick freeze spot. Press  to deactivate the quick freeze spot.

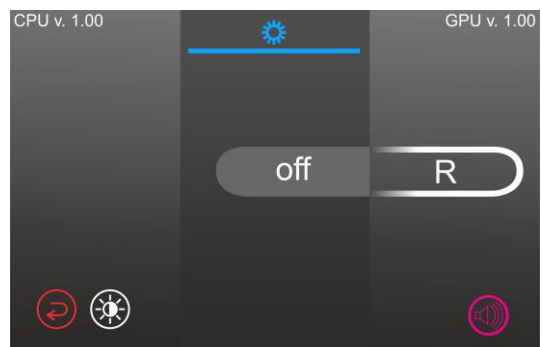
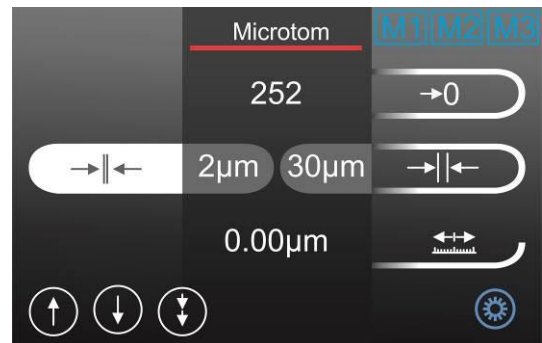


4.6. Parameter Microtome

4.6.1. Menu Setup

Press . Now you can change the following parameter:

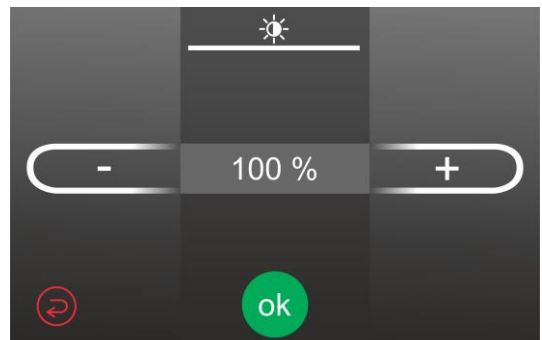
- Time / date
- Display brightness
- Activate / deactivate the automatic retraction modus
- Keytone on/off



4.6.2. Set up display brightness

Press . Now press   to increase or decrease the brightness of the display.

Press  to save the set brightness.



5. Handling



Always close the window so that not too much cooled air escapes. Otherwise the device will only be charged unnecessarily.



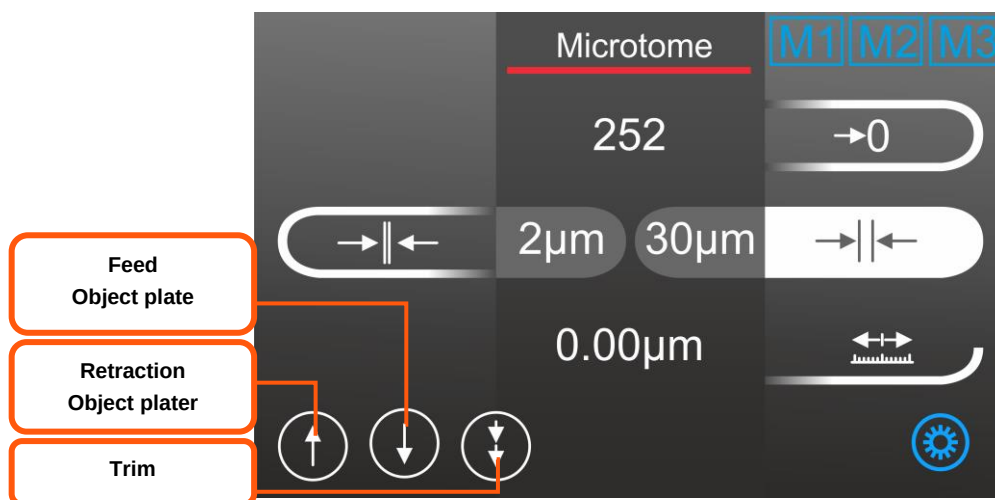
After each use, place the finger protection over the microtome blade and fix the handwheel brake.



Before the cutting process is started, the blade holder and the object clamp must be adjusted. Use different areas of the microtome blade for trimming and fine-cutting by moving the blade holder head to the right or left.

5.1. General information about the feed and retraction of the object plate

With the „Feed object plate“ () „Retraction object plate“ () and „Trim“ () buttons, you can move the object plate to and away from the microtome blade.



Never move the object plate completely to the microtome blade, but stop just before the blade and then begin to carefully approach the tissue specimen by turning the handwheel towards the blade. Once the first cut is made, you can start the editing process.

5.1.1.Feed object plate

Press  to move the object plate by the set value to the microtome blade. Press and hold  to move the object plate permanently to the microtome blade.



The feed of the object plate is always performed with the value set in the fine-cut mode.

5.1.2.Retraction object plate

Press  to move the object plate away from the microtome blade by the set value. Press and hold  to permanently move the object plate away from the microtome blade.



The retraction of the object plate is always performed with the value set in the fine-cut mode.

5.1.3.Function Trim

Press  to move the object plate by the set value to the microtome blade.

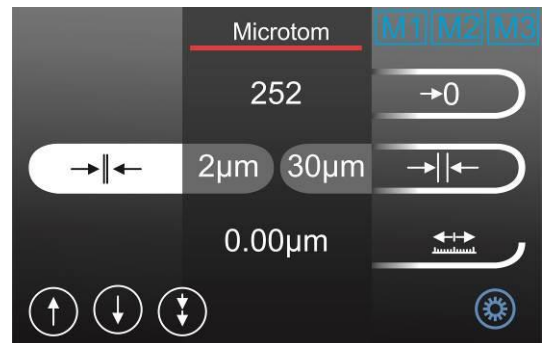


The feed of the object plate is always carried out with the value which was set in the trim mode.

5.2. Modus Fine cut

In the microtome main window, press **2µm** to set the cutting thickness for fine-cut-modus. To increase or decrease the cutting thickness, press **-** **+**. Press **ok** to save the selection or **↺** to cancel the selection and exit the menu. The set cutting thickness is displayed in the button (in the example **2µm**).

Press **↔** to enter the fine-cut-modus. The selected mode will be highlighted in white. The overview **↔** always shows the current position of the sample.

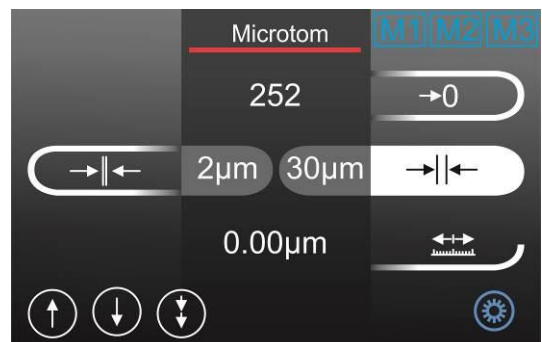


5.3. Modus trim

In the microtome main window, press **30µm** to set the cutting thickness for trimming. To increase or decrease the cutting thickness, press **-** **+**. Press **ok** to save the selection or **↺** to cancel the selection and exit the menu.

The set cutting thickness is displayed in the button (in the example **30µm**).

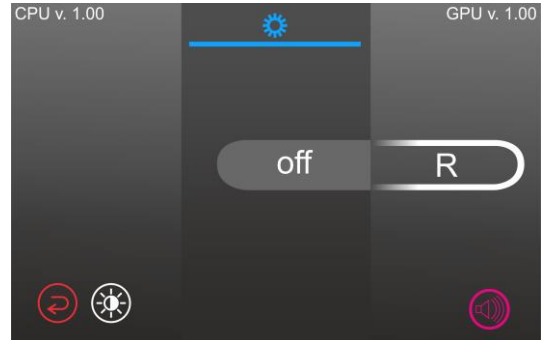
Press **↔** to enter the trim mode. The selected mode will be highlighted in white. The overview **↔** always shows the current position of the sample.



5.4. Modus automatic retraction

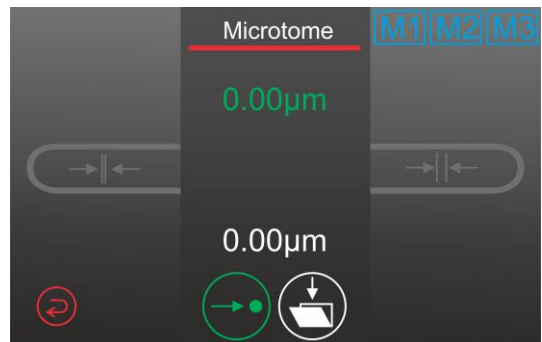
To ensure that the blade and object do not damage the object holder, the M630 offers automatic retraction. There is a slight retraction of the object feed before each upward movement to create some space between the object and the blade.

Press in the microtome main window . Press  to turn auto-retract on () or off (). Press  to exit the menu. The previously settings still saved.

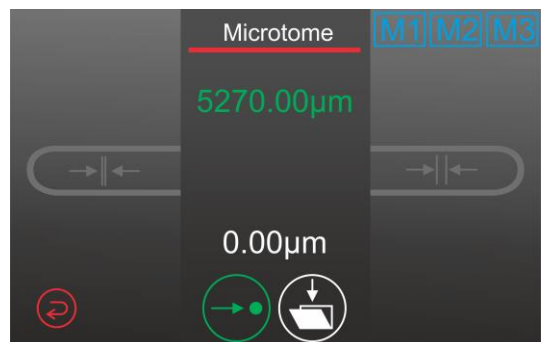


5.4.1. Position memory

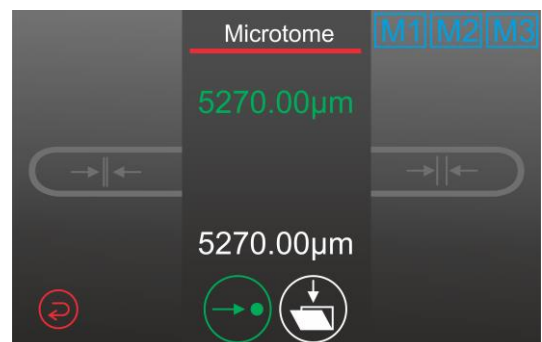
The M630 has the ability to store three position values. These position values are used to quickly find specific positions.



Press in the microtome main window ,  or  - depending on which position memory you want to use. The current stored position is displayed in white (**0.00µm** in the example). Press  to assign the current position to the memory. The successfully assigned position is displayed in green (**5270.00µm** in the example).



To move the sample to the saved position, press . Now the sample were moved to the stored position.





The setted values will be deleted for safety reasons at a new start-up of the cryostat M630.

5.5. Start the cutting process

Unlock the hand wheel and cut the sample by turning the hand wheel until the desired object surface is reached.



- Fix the handwheel after each use to avoid cuts!
- When setting up the specimen and blade, the hand wheel should be fixed to reduce the risk of injury from the blade or the blade!



- When setting up preparations and knives, the finger-protection should also be used to reduce the risk of injury to the blade!
- If possible, the sample should first inserted before the blade is clamped in the blade carrier. Always remove the blade or blade before changing the blade carrier!
- A blade that is not used should always be stored in the blade box!
- Never try to catch a falling blade!
- Never check the sharpness of the microtome blade with your finger. The cutting edge is extremely sharp!
- Be careful when cutting.

6. Troubleshooting

Error	Solution
Blade holder can't be fixed	Clamping levers must be readjusted.
Tight rotary cutting motion (Rotation)	Guide rollers / bearings icy. Switch off the unit for at least 24 hours and allow it to dry out.
	Guide-rollers dirty, broken. Contact the MEDITE service partner.
Piston can't be turn back	Guide rollers / bearings icy. Switch off the unit for at least 24 hours and allow it to dry out.
	Feed-/ retraction-motor not working. Contact the MEDITE service partner.
Device don't start / power-on	Fuses broken. Change the fuses. If the problem still exist - contact the MEDITE service partner.
Display don't start / power-on	Display not working. Contact the MEDITE service partner.

7. Cleaning, maintenance and recycling

7.1. Cleaning instructions

The **Cryostat M630** is a precision instrument. Of course it is necessary to keep it clean to guarantee a long time span between maintenance checks.

The surface of the **Cryostat M630** may be cleaned with standardized, not scratching cleaning agents, if needed. Don't use sharp-edged blades or tools!! These will destroy the surface of the **Cryostat M630**. The whole **Cryostat M630** has to be checked regularly by **MEDITE** service.



MEDITE recommends that you include a daily care procedure in your cleaning and care plan after completing the routine.



Before cleaning, switch off the device and disconnect the power plug.

7.2. Cleaning and maintenance plan

Description	Daily	Weekly	Yearly
Remove pollution from the Cryostat M630.	X		
Checking all guides and clamp-parts for correct function.		X	
Recommendation:: Contact the MEDITE representative or service for the maintenance of the hidden parts and others.			X

7.1. Abandonment / Recycling

After expiration of instrument's life span please transfer unit into professional disposal or send it back to **MEDITE**. As a manufacturer / distributor we take back the used equipment, requiring a payment for disposal.



The **MEDITE** recycling program is only available in Europe.

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