



Wellmed Pro | Wellview Universal Group

TECHNICAL DATA SHEET

Medical Laboratory Pathology Fully Automatic Cryostat Microtome YSPD-HS5020

Features:

1. 10.1-inch color LCD touchscreen, large screen display; all functions and parameters can be operated and set via the touchscreen, making operation convenient.
2. Intuitive display of various statuses such as dual compressor operation, glass window opening/closing, defrosting, and sterilization.
3. Physical button panel on the left side of the equipment supports common functions such as fast forward, fast rewind, slow forward, slow rewind, thickness increase/decrease, and trimming conversion; equipped with an LCD display (showing slicing/trimming mode and thickness)
4. 38L large-capacity cold chamber, spacious operating space, dual-compressor refrigeration + semiconductor refrigeration
5. Supports independent defrosting of the cold chamber, sample head, and cold stage; default is full defrosting; supports manual and automatic defrosting; automatic defrosting period can be set every single day
6. Automatic sleep mode; automatically enters refrigeration mode upon sleep end; sleep time is 5-120 minutes, default is 30 minutes; does not enter sleep mode during the work cycle.
7. UV disinfection; supports manual quick start; automatic disinfection can be set to two disinfection periods daily.
8. Automatic window lighting with sensor; supports manual on/off and automatic off; multiple brightness levels adjustable.
9. Customizable management of multiple sample temperatures; quick switching between different tissue target temperatures.
10. Supports adding, editing, and deleting users, facilitating recording of each user's slide cutting and trimming records.
11. High-brightness strip indicator light on the front of the device; 6 colors provide intuitive indication of device operation.
12. Anti-fog single-layer heated glass effectively prevents condensation.
13. Click the lock screen button to lock the screen and prevent accidental unauthorized operations.
14. Sound alerts are given when the sample head is in position.
15. Supports anti-collision blade position marking; the position can be remarked after moving the blade holder.
16. Cumulative cutting/trimming thickness and number of cuts/trimming operations; supports user-based and total cumulative calculations.
17. Automatic standby time range: 1-240 min, default 30 min.
18. Quick positioning scale indicator; positioning range: 0-50 mm.

19. Voice prompt function: Mode switching: slicing mode, trimming mode; rapid cooling reminder: rapid cooling is on. Activation: Rapid cooling is off; Defrosting reminder: Defrosting is on, Defrosting is off; Disinfection reminder: Disinfection is on, Disinfection is off; Large handwheel lock reminder: Large handwheel is locked, Large handwheel is unlocked; Sample head reminder: Sample head has reached the back position, Sample head has reached the front position
20. Quick increase/decrease: Press and hold the increase/decrease button to quickly increase or decrease the slice thickness/trimming thickness; Press and hold the temperature increase/decrease button to continuously increase or decrease
21. Waste bottle status detection: Displays the remaining volume percentage, with a minimum resolution of 1%; $\geq 90\%$ red icon reminder; $\geq 80\%$ to 90% orange icon reminder
22. Cumulative UV lamp usage time: $\geq 9000\text{h}$, lamp needs replacement; $\geq 7200\text{h}$ and $< 9000\text{h}$ orange icon reminder, note to replace lamp in advance; $\geq 9000\text{h}$ red... Flashing icon indicator
23. Two USB connectors, supporting software upgrades via USB flash drive; one Ethernet port.
24. The blade guard is made of striking red metal and is fixed to the blade holder. It's easy to operate; the blade pusher is integrated into the guard, and the push-button blade ejection makes blade replacement safe and quick.
25. The cooling hammer support uses a guide rail slider system and a double support arm design, supporting a wider range of movement.
26. The planar structure design provides a large contact area with the cooling stage and sample head, resulting in higher sample freezing efficiency. Currently, it comes standard with a $\phi 35\text{mm}$ sample tray in two colours.
27. A large shovel-shaped waste container for easy collection and disposal of waste.
28. Optional detachable foot pedal.
29. The blade holder is compatible with both wide and narrow blades, with a horizontal movement of 48mm and an angle adjustment range of $0\text{-}15$ degrees.
30. Half-blade mode is enabled by default, requiring no configuration. It intelligently recognizes half-blade operations without any other auxiliary operations.
31. Pressing the rewind button quickly returns the sample head to its original position; pressing it again stops the return. The return speed is $2000\mu\text{m/s}$.
32. Driven by a stepper motor, sample injection is precise and stable.

Main Technical Data:

1. Slice Thickness: $0.5\sim 100\mu\text{m}$, Default: $6\mu\text{m}$
2. Slice Thickness Settings: $0.5\sim 5\mu\text{m}$, increment $0.5\mu\text{m}$
 $5\sim 20\mu\text{m}$, increment $1\mu\text{m}$
 $20\sim 60\mu\text{m}$, increment $5\mu\text{m}$
 $60\sim 100\mu\text{m}$, increment $10\mu\text{m}$
3. Trimming Thickness: $1\sim 800\mu\text{m}$, Default: $20\mu\text{m}$
4. Trimming Thickness Settings:
 $1\sim 10\mu\text{m}$, increment $1\mu\text{m}$
 $10\sim 20\mu\text{m}$, increment $2\mu\text{m}$
 $20\sim 50\mu\text{m}$, increment $5\mu\text{m}$
 $50\sim 100\mu\text{m}$, increment $10\mu\text{m}$
 $100\sim 800\mu\text{m}$, increment $50\mu\text{m}$

5. Cooling Points: Multi-point cooling, supports 4-point cooling: cold box, sample head, blade holder, and cold stage
 6. Cooling Performance: Cools from room temperature (20°C) to operating temperature below 2.5 hours
 7. Cold chamber temperature: 0 °C~-35 °C ±5°C (room temperature 20°C), default: -25°C
 8. Sample head temperature: -10 °C~-50 °C ±5°C (room temperature 20°C), default: -20°C
 9. Blade holder temperature: -10 °C~-30 °C ±5°C (room temperature 20°C), default: -20°C
 10. Cold Stage Temperature: -5 °C to -45 °C ±5°C (room temperature 20°C), Default: -30°C
 11. Minimum Rapid Cooling Temperature: -60°C (when the cold stage is below -40°C), Semiconductor High-Efficiency Cooling
 12. Number of Cold Stage Points: 18; Number of Rapid Cooling Points: 3
 13. Rapid Cooling Time: 5~20min, Default: 10min
 14. Sleep Temperature: -5 °C to -15 °C °C, default -10°C
 15. Sample head temperature recovery function: Quickly adjusts the sample head from a lower temperature to a higher temperature for precise temperature control.
 16. Sample head memory: Remembers the sample head injection position; after replacing with a new tissue sample, it can directly return to the remembered position with one click.
 17. Sample head retraction: Retraction range of 0~250 µm (0µm is off), default 20µm.
 18. Sample head coarse advance speed: 900~2000µm/s, default: 1800µm/s
 19. Sample head fine advance speed: 100~900µm/s, default: 300µm/s
 20. Sample head horizontal travel: 30±1mm; Sample head vertical travel: 70±1mm
 21. Sample positioning: ±8° (X-axis and Y-axis); Sample holder 360°. Zero position indicator.
 22. Large handwheel lock: 6 o'clock lock, 12 o'clock lock
 23. Power: 1000W
 24. Dimensions: Width, Depth, Height: 830 (including handle) * 850 * 1226mm
 25. Net weight: 170 kg
- Packaging info:
- Dimensions: 1025 * 890 * 1445mm
- Gross weight: 248kg

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Information from the authorized catalog. Confirm configuration, accessories and documentation in the quotation.

Assisted translation: review the manufacturer specifications before purchasing.