Melting Point Apparatus

Melting point instrument plays an important role in chemical industry and pharmaceutical research. It is an instrument for producing food, medicine, spices, dyes and other organic crystal substances

The Alpol-M70 Fully Automatic Melting Point Tester combines high-precision temperature control technology and HD video camera technology. It not only provides users with accurate, stable, and reliable test results but also offers an efficient and convenient testing experience. The HD video allows for a clear and easy view of the entire sample melting process, with automatic real-time spectrum display, making it convenient for users to accurately measure the sample's melting point and distance



Alpol-M70 fully automatic video melting point instrument

Innovation Points to Improve Efficiency

- Automation integration, AI automatic parameter setting
- High-definition video instead of traditional microscope vision
- Data can be printed directly through the printer
- 4 samples are processed at a time
- Fully automatic recording of melting process, initial melting and final melting
- Compliance with 21CFR Part 11, audit trail, pharmacopoeia and electronic signature

The Key Technical Indexes

Temperature range	Room temperature-360℃
Testing method	Fully automatic (compatible with manual)
Parameter Settings	AI automatic
Processing capacity	4 / batch (four samples can be made at the same time)
Resolution	0.01℃
Heating rate	0.1℃ --20℃ (200 gear infinitely adjustable)
Temperature control method	PID precise temperature control furnace body fully closed design
Program section temperature control	Up to 10 segments can be programmed for gradient temperature control
Spectrum	Any zoom is available to view any detail of the spectrum
Accuracy	±0.3℃ (≤200℃) / ±0.5℃ (>200℃)
Repeatability	The repeatability of melting point at 0.1℃/Min ±0.1℃
Magnification	Standard 9 times, other multiples can be set
Display mode	10.4 inch FTF color touch screen
Data storage	64G
Mapping preservation	20,000 sets
Experimental method	150 sets
Experimental method locked	Yes
User management	There are / four levels of permission management
Audit trail	Yes
Electronic signature	Yes
Custom method library	Yes
Export file verification advanced protection MD5	Yes
Printing mode	WIFI printing and serial port printing
Multiple file formats export	PDF and Excel
Data interface	USB RS232 SD Wi-Fi, RJ45, U disk
Scanner	Supports scanning the QR code of the scanner to directly input information
Capillary size	Outer diameter φ1.3mm, inner diameter φ1.1mm
Package size	430*320*370mm
Power supply	110-230V 50/60HZ 120W
Weight	6.50kg