



# ENTERPRISE

## PRODUCT CATALOGUE



CONCENTRATE ON OUR PROFESSION ATTENTIVE TO OUR SERVICE

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CONCENTRATE ON OUR PROFESSION ATTENTIVE TO OUR SERVICE





# COMPANY PROFILE

Province, eastern China. With over 10  
has become the leading  
pioneer in laboratory equipment industry integrating various sectors such  
as scientific R&D, production, sales and wholesales, aftersales service. Our  
products portfolio covers a wide range of common laboratory equipments,  
for instance, analytical instruments, life research instruments, weighing  
instruments, stirring and mixing instruments, optical instruments and so on.  
MF Equipment Technology insists on leading the industry with technological innovation  
to meet the diversified and high standard requirements of customers.

## “ ENTERPRISE CULTURE

”



### **Enterprise Mission**

Work hard for the revival of domestically made scientific instruments, and strive  
for the progress of world science and technology

### **Enterprise Vision**

Become an innovator and leader in China's scientific instrument industry!

### **Enterprise Values**

Integrity·Pragmatism, Learning·Improvement, Passion·Enterprising,  
Change·Innovation, Teamwork·Dedication

**10<sup>+</sup>** YEARS INDUSTRY EXPERIENCE



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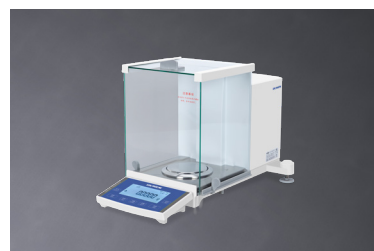
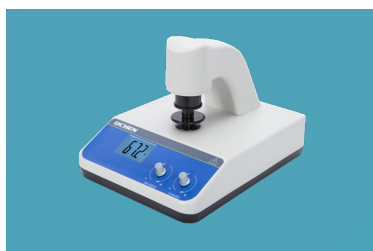
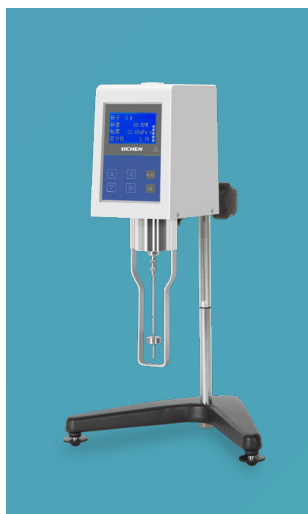
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## PIPETTING PRODUCTS

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## PHYSICAL WEIGHING

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## STP SERIES SINGLE-CHANNEL ADJUSTABLE MICROPIPETTE

Single-channel adjustable micropipette is widely used in different kinds of laboratories for small volume liquid transfer. LICHEN brand micropipette has long service life and adopts ergonomic design: comfortable hand feeling, light suction and discharge operation force, avoiding muscle repetitive strain injury. Suitable for clinical diagnostic lab, biotechnology lab, pharmaceutical and chemical lab, environmental lab, food lab and other scientific fields.



### Product Features

- High temperature sterilization at 121 °C
- Ergonomically designed for long service life
- High pipetting accuracy, low error coefficient
- Two-stage pipetting settings , preventing pipetting errors and avoiding judge the pipetting end by experience
- Knob design to prevent mishandling, rotating the top knob doest not change the pipetting volume during process
- The top embedded adjustment knob can be used for product calibration

Model	Volume	Test Point	Allowable Error / %	Repeatability / %	Increment	Net Weight / g	Product Dimension mm
LC-STP-2/0.1-2.5µl	0.1-2.5µl	2.5µl	±2.50	±2.00	0.05ul	70	240×60×30
		1.25µl	±3.00	±3.00			
		0.25µl	±12.00	±6.00			
LC-STP-2/0.5-10µl	0.5-10µl	10µl	±1.00	±0.80	0.1ul	70	240×60×30
		5µl	±1.50	±1.50			
		1µl	±2.50	±1.50			
LC-STP-2/2-20µl	2-20µl	20µl	±0.90	±0.40	0.5ul	70	240×60×30
		10µl	±1.20	±1.00			
		2µl	±3.00	±2.00			
LC-STP-2/ 5-50µl	5-50µl	50µl	±0.60	±0.30	0.5ul	70	240×60×30
		25µl	±0.90	±0.60			
		5µl	±2.00	±2.00			
LC-STP-2/10-100µl	10-100µl	100µl	±0.80	±0.15	1ul	70	230×60×30
		50µl	±1.00	±0.40			
		10µl	±3.00	±1.50			
LC-STP-2/20-200µl	20-200µl	200µl	±0.60	±0.15	1ul	70	230×60×30
		100µl	±0.80	±0.30			
		20µl	±2.50	±1.00			
LC-STP-2/100-1000µl	100-1000µl	1000µl	±0.60	±0.20	5ul	80	235×60×30
		500µl	±0.70	±0.25			
		100µl	±2.00	±0.70			
LC-STP-2/1000-5000µl	1000-5000µl	5000µl	±0.50	±0.15	50ul	80	205×60×30
		2500µl	±0.60	±0.30			
		1000µl	±0.70	±0.30			
LC-STP-2/1-10ml	1-10ml	10ml	±0.60	±0.20	0.1ml	80	205×60×30
		5ml	±0.80	±0.30			
		1ml	±3.00	±0.60			





Half Disinfection



High Precision



Ergonomics

## SINGLE-CHANNEL ADJUSTABLE MICROPIPETTE

### Product Features

- Pipette rod can be 360-degree rotation and removed for high temperature sterilization at 121 °C
- Ergonomically designed for long service life
- Comfortable hand feeling, light suction and discharge force to avoid repetitive muscle damage
- High precision, low error coefficient and more accurate transfer liquid
- Low maintenance costs

Volume	Test Point	Allow Error / %	Repeatability / %	Increment	Net Weight / kg	Product Dimension / mm
0.1-2.5 $\mu$ l	2.5 $\mu$ l	$\pm 2.50$	$\pm 2.00$	0.05 $\mu$ l	0.07	240 $\times$ 60 $\times$ 30
	1.25 $\mu$ l	$\pm 3.00$	$\pm 3.00$			
	0.25 $\mu$ l	$\pm 12.00$	$\pm 6.00$			
0.5-10 $\mu$ l	10 $\mu$ l	$\pm 1.00$	$\pm 0.80$	0.1 $\mu$ l	0.07	240 $\times$ 60 $\times$ 30
	5 $\mu$ l	$\pm 1.50$	$\pm 1.50$			
	1 $\mu$ l	$\pm 2.50$	$\pm 1.50$			
2-20 $\mu$ l	20 $\mu$ l	$\pm 0.90$	$\pm 0.40$	0.5 $\mu$ l	0.07	240 $\times$ 60 $\times$ 30
	10 $\mu$ l	$\pm 1.20$	$\pm 1.00$			
	2 $\mu$ l	$\pm 3.00$	$\pm 2.00$			
5-50 $\mu$ l	50 $\mu$ l	$\pm 0.60$	$\pm 0.30$	0.5 $\mu$ l	0.07	240 $\times$ 60 $\times$ 30
	25 $\mu$ l	$\pm 0.90$	$\pm 0.60$			
	5 $\mu$ l	$\pm 2.00$	$\pm 2.00$			
10-100 $\mu$ l	100 $\mu$ l	$\pm 0.80$	$\pm 0.15$	1 $\mu$ l	0.07	230 $\times$ 60 $\times$ 30
	50 $\mu$ l	$\pm 1.00$	$\pm 0.40$			
	10 $\mu$ l	$\pm 3.00$	$\pm 1.50$			
20-200 $\mu$ l	200 $\mu$ l	$\pm 0.60$	$\pm 0.15$	1 $\mu$ l	0.07	230 $\times$ 60 $\times$ 30
	100 $\mu$ l	$\pm 0.80$	$\pm 0.30$			
	20 $\mu$ l	$\pm 2.50$	$\pm 1.00$			
100-1000 $\mu$ l	1000 $\mu$ l	$\pm 0.60$	$\pm 0.20$	5 $\mu$ l	0.08	235 $\times$ 60 $\times$ 30
	500 $\mu$ l	$\pm 0.70$	$\pm 0.25$			
	100 $\mu$ l	$\pm 2.00$	$\pm 0.70$			
1000-5000 $\mu$ l	5000 $\mu$ l	$\pm 0.50$	$\pm 0.15$	50 $\mu$ l	0.08	205 $\times$ 60 $\times$ 30
	2500 $\mu$ l	$\pm 0.60$	$\pm 0.30$			
	1000 $\mu$ l	$\pm 0.70$	$\pm 0.30$			
1-10ml	10ml	$\pm 0.60$	$\pm 0.20$	0.1ml	0.08	205 $\times$ 60 $\times$ 30
	5ml	$\pm 0.80$	$\pm 0.30$			
	1ml	$\pm 3.00$	$\pm 0.60$			

## PIPETTE HOLDER&PIPETTE TIPS







## MINI VORTEX MIXER

The Vortex inching series mini mixer is a test tube oscillator that focuses on the inching function. The compact design and trigger start make it one of the most essential instruments in the lab. Widely used in oscillating test tubes, centrifugal tubes. Mixing performance is excellent.

### Product Features

- Mini shape, compact design and easy to carry
- DC brushless motor, stepless speed regulation, low speed smooth, high speed strong
- Eccentric bearing design, swing line mixing, mixing is uniform and fast
- Silicone head to protect test tube and centrifuge tube, more durable
- Zinc alloy base, improve stability
- Suction cup foot, suitable for high-speed work

Model	Vortex Point-1		Vortex Point-2
Voltage / V	AC90-230		
Frequency / Hz	50-60		
Power / W	≤10		
Display	/		
Maximum Speed / rpm	4000		
Speed Adjustment Mode	Fixed Speed		Stepless Speed Adjustment
Motor Type	Brushless Motor		
Press-On Vibration	Inching		Inching & Variable Speed
Net Weight / kg	1.5		
Dimension / mm	110×110×86		



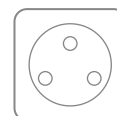
Portable Design



Brushless DC Motor



Silicone Shock Head



Suction Cup Bottom Corner





## MULTI-TUBE VORTEX MIXER

microcomputer control technology with unique operating knob. By replacing different test tube fixing sponges, it can be used to mix and culture a wide range of commonly used test tubes. Process at a time up to 50 samples. Applicable in bioprocesses, microbiology and medical analysis.

### Product Features

- LCD display, speed and time adjustable, intuitive and clear
- DC brushless motor, low speed smooth, high speed strong
- Soft start to avoid sample splashing
- Eccentric bearing design, round mixing, mixing uniform, fast
- Pulse break mode operates in a highly accurate and repetitive application
- Suction cup foot, suitable for high-speed work
- A wide selection of vibration module adapters is available for a wide range of size containers
- High throughput, up to 50 samples mixed at a time
- Inching and timing two modes of operation, warning tone after operation



LED



Brushless DC Motor



Multi-module Adaptation



High Throughput



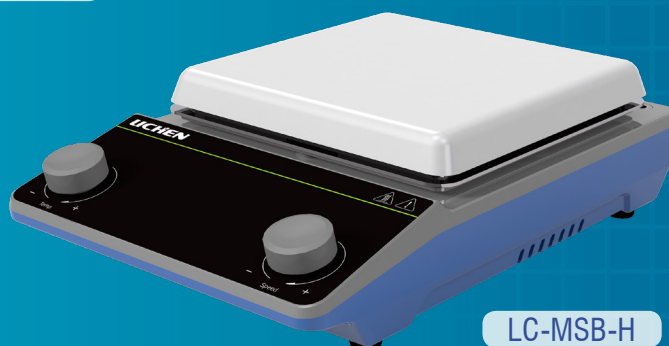
Inching/continuous operation

Model	Vortex-2500MT
Voltage / V	AC100-240
Frequency / Hz	50/60
Power / W	70
Display	LCD screen
Speed Range / rpm	500-3000
Speed Accuracy / rpm	±10
Amplitude	4mm horizontal swing
Motor Type	DC brushless motor
Working Type	Dotting, timing
Timing Range	1min~99h59min
Pulse Interval Time / S	10
Maximum Load / kg	4.5
Top Cover Lift Range / cm	30
Net Weight / kg	17
Dimension / mm	410×375×430

## | MAGNETIC STIRRER&MIXER



LC-MSB-D



LC-MSB-H



LC-MSB-HD



LC-MSB-S





## MSB SERIES MAGNETIC STIRRER

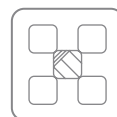
Magnetic Stirrer, mainly used for stirring or simultaneous heating and stirring low viscous liquid or solid liquid mixtures. the sample temperature can be heated and controlled according to the specific experimental requirements to maintain experimental required temperature condition to ensure liquid mixing.



LCD



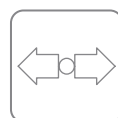
Brushless DC Motor



Ceramic Plate



Strong Magnet



Adjustable Steering

### Product Features

- Backlit LCD display set and current values, clear and intuitive
- Two separate safety circuits, independent temp sensor detection
- DC brushless motor, stepless speed adjustable encoder, low noise, maintenance-free, smooth operation
- Use fuzzy logic control and microprocessing basis to ensure temperature control accuracy
- A variety of operating modes ensure that the stirring function does not change due to external factors
- With safe temperature control, unmanned operation can be achieved
- With positive and inversion function and program editing function, positive & reverse switching, temp switch can be achieved, fully stirring
- High temp resistant strong magnetic steel to ensure sufficient suction force and torque, stirring effect is significant

Model	LC-MSB-S	LC-MSB-D	LC-MSB-H	LC-MSB-HD
Power Supply / V	AC110-240		AC110 or 220	
Frequency / Hz	50		50 or 60	
Power / W	12	24	350	550
Display	/	LCD	/	LCD
Maximum Stirring Capacity / L	5			
Heating Function	×		√	
Speed Range	Start -1600	50-1600	Start -1600	50-1600
Speed Control Accuracy / rpm	/		±10	
Motor Type	Single-phase brushless motor	Three-phase brushless motor	Single-phase brushless motor	Three-phase brushless motor
Temperature Control Range	/		RT-350	
Temperature Control Accuracy / °C	/	/	±2 %	Tray ± 2    Solution ±0.5
Working Plate Material	Acrylic		High temperature ceramics	
Working Plate Size / mm	150×150			
Net Weight / kg	1.2	1.2	2	2
Product Dimension / mm	220×160×75	220×160×75	220×160×75	220×160×75



## MAGNETIC STIRRER



LCD



Brushless DC Motor



Ceramic Plate



Strong Magnetic Steel



Smooth Operation

### Product Features

- Backlit LCD display
- DC brushless motor, stepless adjustable speed, low noise, maintenance-free, smooth operation
- Nano-ceramic plate, resistant to high temperature, corrosion resistance
- Adopts high temp resistant strong magnetic steel to ensure sufficient suction force and torque, stirring effect is significant
- With two separate safety circuits, independent temperature sensor detection, furnace plate temperature can be set
- Automatic judge whether the stir bar is escaped and automatically capture
- Fuzzy logic control and microprocessing basis are used to ensure control accuracy
- A variety of operating modes ensure that the stirring function does not change due to external factors
- With safe temperature control, unmanned operation can be achieved
- The thermal warning screen shows the residual temperature of the heating plate after the experiment
- Connect via RS232 interface and PC (LC-SMS-S,LC-SMS-H,LC-MSH-Pro, LC-DMS-Pro-specific).
- Optional external temperature sensors (LC-MSH-Pro, LC-MAG-HS18 specific).

Product Model	LC-SMS-S	LC-SMS-HS	LC-MSH-Pro	LC-DMS-Pro	LC MAG-HS18	LC-MAG-MS18
Power Supply / V	AC 110/220					
Frequency / Hz	50/60					
Power / W	5	505	505	5	660	10
Display	scale		LCD screen			
Maximum Stirring Volume / L	20					
Heating Function	/		/	/	√	/
Speed Range / rpm	200-1500					
Speed Control Accuracy / rpm	/		1			
Motor Type	Brushless DC motor					
Temperature Control Range / °C	/	RT-380	RT-380	/	RT-380	/
Temperature Control Accuracy / °C	/	/	0.5	/	0.5	/
Working Plate Material	Nano-ceramic surface					
Working Plate Size / mm	Disc φ135 or Square Plate 155×155				180×180	
RS232 Interface	√				/	/
Net Weight / kg	2.25	2.45	2.35	2.5	3.55	3.45
Product Dimension (L×W×H mm).	310×180×110				320×220×125	





LC-MS-M1



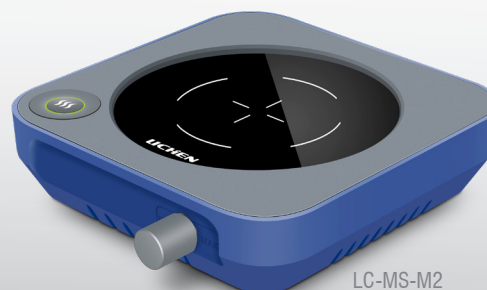
Portable Design



Brushless DC Motor



Tempered Glass Plate

Adjustable Temperature  
In Two Levels

LC-MS-M2

## MINI MAGNETIC STIRRER

### Product Features

- Portable design, small size and lightweight
- Mini DC brushless motor, stepless adjustable speed, low noise, maintenance-free, smooth operation
- Adopts high temp resistant strong magnetic steel to ensure sufficient suction force and torque, stirring effect is significant
- Housing is made of PC plastic, resistant to corrosion, strong and high flame retardant
- Fully enclosed tempered glass heating plate to prevent liquid inflow and protect instrument components (LC-MS-M2-specific).
- Heating button design, two stage of temp can be set with indication light

Product Model	LC-MS-M1	LC-MS-M2
Power Supply / V	AC100-240V 50-60Hz/DC3V1A	AC100-240V 50-60Hz/DC12V2A
Power / W	3	24
Maximum Stirring Volume (H <sub>2</sub> O) / ml	500	
Speed Range / rpm	0-2000	
Motor Type	Mini brushless motor	
Temperature Control Range/ °C	/	Low temp max: RT+ 15 High temp max: RT + 30
Temperature Control Accuracy / °C	/	±5
Working Plate Material	PC	Tempered glass + PC
Working Plate Size / mm	120×120	120×120(heating plate φ90).
Net Weight / kg	0.3	0.4
Product Dimension (L×W×H) / mm	120×120×30	120×120×30

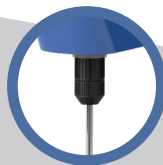


## OES SERIES OVERHEAD ELECTRIC STIRRER

The overhead electric agitator is suitable for mixing and stirring low, medium and high viscosity liquids in the laboratory. The stirring machine adopts high-quality engineering plastic as the body, the operating is stable, the output uses variable speed increase mechanism, so that the output torque is multiplied.

### Product Features

- DC permanent magnet motor, stepless adjustable speed, low noise, maintenance-free, smooth operation
- Constant speed, torque can be adjusted automatically according to the change of sample viscosity
- Open racks for a wide range of containers
- Adjustable stirring stick chuck for easy loading and unloading
- Overloads stop automatically to ensure safe operation
- Automatically switch circuit in abnormal conditions to ensure safe
- Start smoothly and effectively prevent sample overflow



Model	LC-OES-60	LC-OES-120	LC-OES-200
Voltage / V	AC 100-240		
Frequency / Hz	50/60		
Power / W	72	120	200
Display	/		
Speed Range / rpm	100-2000		
Speed Control Accuracy / %	±5		
Max. Stirring Volume (H2O) / L	20	40	60
Recommended Stirring Volume (H2O) / L	5	10	15
Max. Stirring Viscosity / mPa·s	5000	10000	20000
Lifting Range / mm	300-600		
Motor Type	DC permanent magnet		
Timing Range	/		
Net Weight / kg	9	10	12
Product Dimension / mm	370×260×600		





## OES-SH SERIES OVERHEAD ELECTRIC STIRRER

### Product Features

- LED digital tube display set speed and actual speed, intuitive and clear
- DC permanent magnet motor, low noise, maintenance-free, smooth operation
- Constant speed, torque can be adjusted automatically according to the change of sample viscosity
- Open racks for a wide range of containers
- Adjustable stirring stick chuck for easy loading and unloading
- Overloads stop automatically to ensure safe operation
- Automatically switch circuit in abnormal conditions to ensure safe
- Start smoothly and effectively prevent sample overflow

Model	LC-OES-60SH	LC-OES-120SH	LC-OES-200SH
Voltage / V	AC 100-240		
Frequency / Hz	50/60		
Power / W	72	120	200
Display	LED digital tube		
Speed Range / rpm	100-2000		
Speed Control Accuracy / rpm	±10		
Max Stirring Volume (H2O) / L	20	40	60
Recommended Stirring Volume (H2O) / L	5	10	15
Max Stirring Viscosity / mPa·s	5000	10000	20000
Lifting Range / mm	300-600		
Motor Type	DC permanent magnet		
Timing Range	999min or Open		
Net Weight / kg	9	10	12
Procut Dimension / mm	370×260×600		





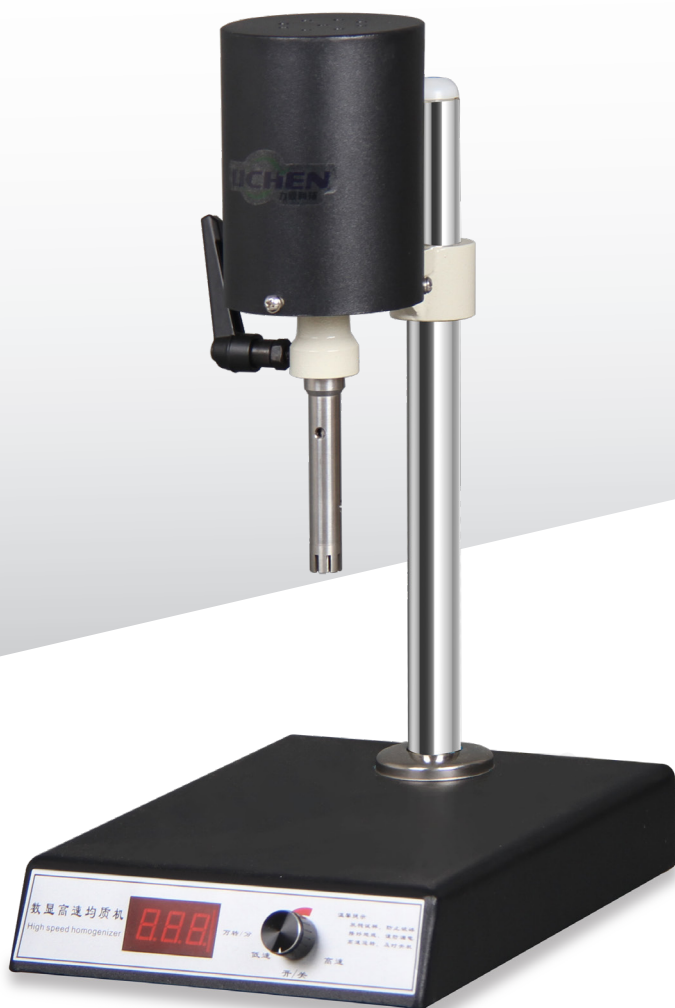
## OES-FR SERIES ELECTRIC STIRRER

### Product Features

- LCD screen
- DC permanent magnet motor, low noise, maintenance-free, smooth operation
- Constant speed, torque can be adjusted automatically according to the change of sample viscosity
- Open racks for a wide range of containers
- Adjustable stirring stick chuck for easy loading and unloading
- Overloads stop automatically to ensure safe operation
- Start smoothly and effectively prevent sample overflow
- Positive and reverse stirring, positive and reverse intermediate stop, slow start
- Positive & reverse speed, positive & reverse time, stop time, acceleration and deceleration time can be set respectively

Model	LC-OES-150FR	LC-OES-240FR
Voltage / V	100-240	
Frequency / Hz	50 or 60	
Power / W	150	240
Display	LCD display	
Speed Range / rpm	100-2000	50-1000
Speed Control Accuracy / rpm	±10	
Max Stirring Volume / L	20	40
Recommended Stirring Volume / L	5	10
Max Stirring Viscosity / mPa·s	30000	60000
Lifting Range / mm	300~600	
Motor Type	DC brushless motor	
Timing Range	0~99h59min	
Net Weight / kg	10	11
Product Dimension / mm	325×215×600	325×215×600



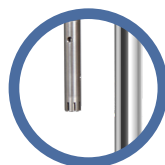


## FJ DIGITAL DISPLAY HIGH SPEED HOMOGENIZER

Widely used in biological, physical and chemical, cosmetics, health care products, food and other liquids / liquid mixing, emulsification, liquid / solid powder dispersion, pulping experimental. Composed of stirring machine, rack, etc.

### Product Features

- LED digital tube display the rotary speed, intuitive and clear
- AC carbon brush motor, stepless adjustable speed, high torque, high output power, stable operation
- 316 stainless steel head, easy to dismantle, easy to clean
- Internal suction structure design, homogenizing efficiency is high
- Sustainable design



Model	FJ200-S
Voltage / V	AC 220V/50Hz
Power / W	220
Display	LED digital tube
Speed Range / rpm	300-23000
Max Stirring (H2O) Volume / ml	0-300
Recommended Stirring Volume (H2O) / ml	200
Lifting type	Manual
Lift range / mm	170
Motor type	Carbon brush motor
Net Weight / kg	7.5
Product dimension / mm	300×220×60



## THERMOSTATIC METAL DRY BATH

LC-JSY series high temperature metal bath is a new product controlled by a microcomputer, which can be widely used in sample preservation and reaction, DNA amplification and electrophoresis pre-denaturation, serum coagulation, etc.

### Product Features

- LDC screen, set value and current value displayed simultaneously clear and intuitive
- Multi-point operation function, multi-segment program can be preset, each program can also be opened and closed independently
- Automatic air cooling, rapid cooling
- Buzzer alarm function when the target temperature is reached, the operation ends or a failure occurs
- Adopt high-quality thermal conductive aluminum module for heating, which is conducive to rapid heating and temperature control
- Intelligent algorithm and temperature deviation calibration function, effectively reducing experimental error
- Automatic fault detection to ensure the safety of the instrument operation process
- Automatic recovery after power failure, sudden power failure during operation, after power on, the program operation before power failure will be restored
- Multiple ventilation cooling hole, built-in over-temperature protection device, effectively avoid overheating



Model	LC-JSY-1GW	LC-JSY-2GW
Input Power / V	AC220	
Frequency / Hz	50-60	
Power / W	200	400
Display Mode	LCD	
Modular Adapter	1.5/2ml×24 holes	1.5/2ml×48holes(Dual Module)
Temperature Control Range / °C	Room Temperature +5—150	
Temperature Control Accuracy / °C	≤ ± 0.5	
Heating Mode	Stainless Steel Heating Tube	
Cooling Mode	Fast Air Cooling	
Time Setting	1min ~ 99h59min/∞	
Programming Function	Support( 5 at most)	
Net Weight / kg	4	5
Dimension(L×W×H) / mm	260×200×120	260×200×120



## LC-JSY CONSTANT TEMPERATURE DRY BATH

### Product Features

- LCD LDC screen, set value and current value displayed simultaneously
- Multi-point operation function, multi-segment program can be preset, each program can also be opened and closed independently
- Buzzer alarm function when the target temperature is reached, the operation ends or a failure occurs
- Adopt high-quality thermal conductive aluminum module for heating, which is conducive to rapid heating and temperature control
- Intelligent algorithm and temperature deviation calibration function, effectively reducing experimental error
- Automatic fault detection to ensure the safety of the instrument operation process
- Automatic recovery after power failure, sudden power failure during operation, after power on, the program operation before power failure will be restored
- Multiple ventilation cooling hole, built-in over-temperature protection device, effectively avoid overheating of the instrument
- LC-JSY-2 and LC-JSY-4 adopt semiconductor temperature control, which can achieve heating and cooling functions
- LC-JSY-3 and LC-JSY-4 adopt DC brushless motors, low noise, small fluctuations, long life, maintenance-free, and have the function of inching stirring

Model	LC-JSY-1	LC-JSY-2	LC-JSY-3	LC-JSY-4
Input Power / V	AC220	AC110~220	AC220	AC110~220
Frequency / Hz	50-60			
Power / W	150	250	200	250
Display Mode	LCD			
Temperature Control Range / °C	RT+5 —100	RT-25 ~1100	RT+5 —100	RT-16 ~100
Temperature Control Accuracy / °C	≤ ± 0.3			
Heating Mode	Heating Film	Semiconductor	Heating Film	Semiconductor
Cooling Mode	Natural Cooling	Semiconductor	Natural Cooling	Semiconductor
Motor Type	/		Brushless DC Motor	
Oscillation Frequency / rpm	/		200~1800	
Amplitude	/		2mm-3mm(Horizontal Rotation)	
Time Setting	1min ~ 99h59min/∞			
Modular Adapter	1.5/2ml×35 holes			
Programming Function	Support(5 at most)			
Net Weight / kg	2.5	3.5	7.5	8.5
Dimension(L×W×H) / mm	270×190×170			



## MINI METAL DRY BATH

### Product Features

- Portable design, small size, light weight, 12V DC power input, suitable for vehicle power supply
- LCD
- Mini series have all the features as normal series of dry bath

Model	LC-JSY-100	LC-JSY-100F (Air Cooling)
Input Power / V	AC:100-240 DC-12	
Frequency / Hz	50-60	
Power / W	50	60
Display Mode	LCD	
Temperature Control Range / °C	RT+5 —100	
Temperature Control Accuracy / °C	≤ ±0.3	
Heating Mode	Programming Function	
Cooling Mode	Natural Cooling	Fast Air Cooling
Time Setting	1min ~ 99h59min/∞	
Modular Adapter	1.5/2ml×15 holes	
Programming Function	Support(5 at most)	
Net Weight / kg	1	1
Dimension(L×W×H) / mm	150×100×135	150×100×135





## JR SERIES HEAT-COLLECTING MAGNETIC STIRRER

LC-JR series heat-collecting constant temperature heating magnetic stirrer is a new type of heat-collecting magnetic stirrer, which integrates water bath, oil bath heating, and magnetic stirring. It adopts the heat collecting method, the heated container is in strong heat radiation, and the heating speed is three times that of other similar flat stirrer.

### Product Features

- PID temperature control technology, digital display temperature, clear and intuitive
- Brushless DC motor, stepless speed regulation, low noise, maintenance-free, stable operation
- Built-in temperature sensor, accurate temperature measurement
- Adopting the heat collecting method, fast heating speed, uniform temperature and high efficiency
- Use strong magnetic and high temperature resistant magnetic steel to ensure sufficient suction and torque, and the stirring effect is remarkable
- The pot body is made of high-quality stainless steel stamped and combined with a special heating tube seal
- Timing and constant temperature timing function (only for LC-JR-3D)



Model	LC-JR-3A	LC-JR-3D
Input Power / V	220	
Frequency / Hz	50	
Power / W	540	
Display	LED Digital Tube	LCD
Beaker Max Capacity / ml	3000	
Working Dimension / mm	φ220×110	
Speed / rpm	0-2600	
Motor Type	DC Permanent Magnet Motor	
Temp Control Range / °C	RT-350	
Temperature Control Accuracy / °C	±1	
Pot Can Be Separated	Yes	
Net Weight	5.5	5.5
Dimension(L×W×H) / mm	290×280×230	290×280×230

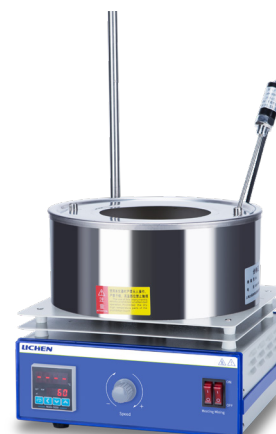


## DF SERIES HEAT-COLLECTING MAGNETIC STIRRER

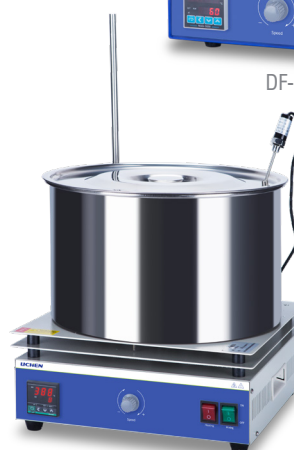
DF-101 series heat-collecting constant temperature heating magnetic stirrer adopts the heat-collecting heating method, the heated container is completely exposed to strong heat radiation, and the heating speed is three times that of other similar flat stirrers.

### Product Features

- PID temperature control technology, LED digital tube display set temperature and current temperature, clear and intuitive
- DC permanent magnet motor, stepless speed regulation, low noise, maintenance-free, stable operation
- External PT100 temperature sensor, accurate temperature measurement
- Adopting the heat collecting method, fast heating speed, uniform temperature and high efficiency
- Use strong magnetic and high temperature resistant magnetic steel to ensure sufficient suction and torque, and the stirring effect is remarkable
- The pot body is made of high-quality stainless steel stamped and combined with a special heating tube seal
- The heating part and the electric box are separated by a ventilation cooling plate, and the high temperature does not affect the performance of the whole machine



DF-101S



DF-101T

Model	DF-101S (Standard)	DF-101S (Deepen)	DF-101S (Split)	DF-101Z	DF-101T-5	DF-101T-10	DF-101T-15
Input Power/ V	220						
Frequency / Hz	50						
Display	LED Digital Tube						
Power / W	525	625	625	320	1030	1535	2040
Max Stirring Vol. / ml	2000	2000	2000	800	5000	10000	15000
Effective Volume / mm	φ220×90	φ220×110	φ220×90	φ220×100	φ250×130	φ300×200	φ345×210
Speed Range / rpm	0-2600r/min						
Motor Type	DC Permanent Magnet Motor						
Temp Control Range / °C	Room Temperature -400						
Temp Control Accuracy / °C	±1						
Pot Can Be Separated	×	×	√	×	×	×	×
Net Weight / kg	5.0	5.3	5.5	2.6	6.5	7.6	9.5
Dimension(L×W×H) / mm	250×235×235	250×235×250	250×235×235	170×170×230	250×240×270	340×340×360	350×350×370



## ELECTRIC HEATING MANTLE

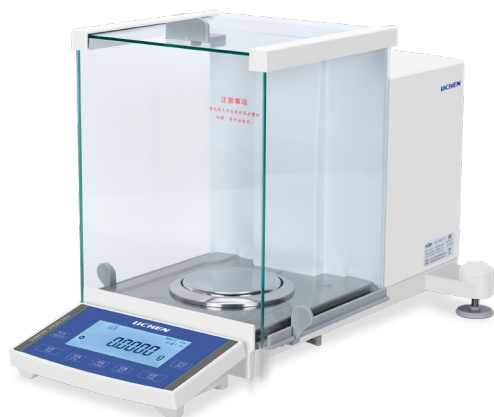
The heating mantle is made of high-temperature resistant alkali-free glass fiber as the insulating material, and the resistance wire is sealed in the insulating layer, and then woven into a hemispherical internal heating heater. Electric heating mantle are mainly used for heating liquids in laboratories of various universities, petroleum, chemical, pharmaceutical, environmental protection and other industries. It is the most ideal heating equipment for laboratories and fine chemical units.

### Product Features

- LED digital tube display temperature, clear and intuitive
- Magnetic stirring function, DC brushless motor, stepless speed regulation, low noise, maintenance-free, stable operation
- Using high temperature resistant alkali-free glass fiber material, not easy to damage the glassware
- Hemispherical internal heating heater with large contact area with utensils, high thermal efficiency, fast heating, no open flame
- Cold-rolled steel shell, using electrostatic spray treatment process, anti-corrosion and anti-aging
- Standard PT100 temperature sensor, accurate temperature measurement



Model	SZCL 100ml (New)	SZCL 250ml (New)	SZCL 500ml (New)	SZCL 1000ml (New)
Input Power/ V	220			
Frequency / Hz	50			
Power / W	100	180	250	300
Display Mode	LED Digital Tube			
Maximum Flask Capacity / ml	100	250	500	1000
Temperature Control Range / °C	RT-380			
Temperature Control Accuracy	±1			
Speed Range / rpm	0-2000			
Net Weight / kg	4	4.2	4.2	5
Dimension(L×W×H) / mm	370×240×240	370×240×240	370×240×240	380×260×260



## ES SERIES SEMI-MICRO ELECTRONIC ANALYTICAL BALANCE

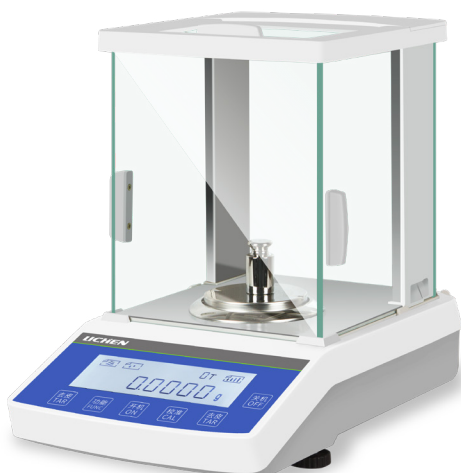
Lichen ES series electronic analysis balance using internationally recognized high sensitivity, high stability electromagnetic force sensor technology, leading the industry in the cost level, won higher product pricing initiative. Stable performance can meet the precision weighing requirements of a wide range of laboratories. This product is widely used in scientific research, education, medical treatment, metallurgy, agriculture and other industries.

### Product Features

- Back built-in electromagnetic force sensor
- Fully transparent glass wind shield, sample 100% visible
- Standard RS232 interface data communication with computers, printers, or other devices
- Extendable LCD display to avoid impact and vibration on the balance when the user is operating the keys

Model	ES1055A	ES2085A	ES1035B	ES2055B
Power Supply / Frequency	AC230V.50-60HZ			
Power / W	24			
Display	LCD Display			
Accuracy Level	First Grade			
Measurement Range / g	120/ 51	210/ 82	120/ 31	210/ 51
Division Value / mg	0.1/0.01			
Minimum Weighing / mg	1			
Peeling Range / g	0-120/ 0-51	0-210/0-82	0-120/ 0-31	0-210/ 0-51
Linear Error / mg	$\pm 0.1/\pm 0.05$			
Repeatability / mg	$\pm 0.1/\pm 0.05$			
Stabilization Time	2.5/15 sec.			
Weighing Pan Size / mm	F90			
Weighing Units	g , oz , ct, lb .			
Weight Specification / g	100	200	100	200
Auto-Calibration Function	/	/	/	/
Wind Shield	Standard			
Type Of Interface	RS232			
Net Weight / kg	6			
Product Dimension / mm	470×310×320			





## FA-C SERIES NEW ELECTRONIC ANALYTICAL BALANCE

Lichen FA series electronic analysis balance, equipped with large-scale LCD screen, uses high-precision electromagnetic balance sensors to ensure the stability and reliability of each balance; Built-in RS232C interface to connect computers, printers and other devices, easy to record and process data. Widely used in scientific research, education, medical, metallurgy and other industries.

### Product Features

- High-definition large LCD screen, clear display
- Fully automatic fault detection, overload protection
- Unit conversion, counting, percentage
- Automatic external weight calibration
- FA-C has fully automatic built-in weight calibration
- A variety of environment and display modes can be selected to minimize the affect on balance during weighing

Product Model	FA124	FA124C (Internal Calibration)	FA224	FA224C (Internal Calibration)	FA324	FA324C (Internal Calibration)
Power Supply / Frequency	AC220V 50Hz/DC5V 2.5A					
Power / W	15					
Display	LCD					
Accuracy Level	Level I					
Weighing Range / g	0-120	0-120	0-220	0-220	0-320	0-320
Division value / mg	0.1					
Minimum Weighing / mg	0.5					
Peeling Range / g	0-120	0-120	0-220	0-220	0-320	0-320
Linear Error / g	±0.0005					
Repeatable Error / g	±0.0002					
Stabilization time / s	≤4					
Weighing pan size / mm Ø	80					
Weighing Units	g/ct/oz/mg					
Weight Specifications / g	100	/	200	/	200	/
Auto-calibration Function	/	√	/	√	/	√
Wind Shield	√					
RS232 Interface	√					
Net Weight / kg	5.5					
Product Dimension (L×W×H) / mm	300×210×320					



## FA-TC SERIES TOUCH SCREEN ELECTRONIC ANALYSIS BALANCE

FA-TC series electronic analysis balance, using high-precision electromagnetic balance sensor to ensure the stability and reliability of each balance; Widely used in scientific research, education, agriculture, jewelry and other industries.



### Product Features

- 5.0 inch full-colored touch screen
- Automatic fault detection, overload protection
- Unit conversion, counting, percentage
- Fully automatic built-in weight calibration function
- A variety of environment and display modes can be selected to minimize the affect on balance during weighing
- Built-in RS232C interface, easy to record and process data by connecting computers, printers, etc.

Product model	FA124TC (Touch Screen Built-In Calibration)	FA224TC (Touch Screen Built-In Calibration)	FA324TC (Touch Screen Built-In Calibration)
Power Supply / Frequency	AC220V 50Hz/DC5V 2.5A		
Power / W	15		
Display	LCD touch screen		
Accuracy level	Level I	Level I	Level I
Weighing Range / g	0-120	0-220	0-320
Division Value / mg	0.1		
Minimum weighing / mg	0.5		
Peeling Range / g	0-120	0-220	0-320
Linear Error / g	±0.0005		
Repeatable Error / g	±0.0002		
Stabilization Time / s	≤4		
Weighing Pan Specification / mm Ø	80		
Weighing Units	mg/g/ct/oz/lb/gn/dr/mm/ozt/dwt/tlj/tlt/lh/tola/tmr/tar		
Weight Specifications	/		
Auto-Calibration Function	√		
Wind Shield	√		
RS232 Interface	√		
Net Weight / kg	5.5		
Product Dimension (L×W×H) / mm	300×210×320		



## JT-D SERIES ELECTRONIC BALANCE

LICHEN JT-D series electronic balance uses intelligent balances consisting of high-precision sensors and microcomputers. The finely cast aluminum housing is anti-jamming and corrosion resistant. Widely used in scientific research, education, food, jewelry and other industries.

### Product Features

- Finely cast aluminum alloy housing, anti-jamming corrosion resistance
- High-definition LCD screen
- Fully automatic fault detection, overload protection
- Unit conversion, counting function
- Automatic external weight calibration
- Full-scale peeling
- Built-in RS232C interface, easy to record and process data by connecting computers, printers, etc.



Product model	JT1003D	JT2003D	JT3003D
Power Supply / V	AC110 or AC220		
Frequency / Hz	50/60		
Power / W	3		
Display	LCD with backlight		
Accuracy Level	Level II		
Weighing Range	20mg-100g	20mg-200g	20mg-300g
Division Value / g	0.001		
Minimum Weighing / mg	20		
Peeling Range / g	0-100		
Linear Error / mg	±2		
Repeatable Error / mg	±3		
Stabilization Time / s	≤5		
Weighing Pan Size / mm	φ90		
Weighing Units	g/mg/ct/ozt		
Weight Specification / g	100	200	200
Auto-Calibration Function	/		
Wind Shield	√		
RS232 Interface	RS232		
Net Weight / kg	3.2		
Product Dimension (L×W×H) / mm	340×215×350		



## DHS SERIES MOISTURE METER

DHS series of electronic halogen moisture rapid analyzer, using halogen lamp pyrolysis weight principle, is a rapid moisture testing instrument. Compared with the international oven heating method, halogen heating can achieve maximum heating power in the shortest possible time, its test results has the good consistency with international standard oven method, and the testing efficiency is much higher than the oven method. Generally, it only takes a few minutes to complete the measurement. And the operation is simple, the test is accurate, and the moisture value, dry value, measurement time, temperature value, and other data can be displayed separately. Having function of connecting with computers and printers



### Product Features

- Fully automatic heating door double-drive ultra-quiet opening to prevent the influence of artificial lifting of the lid on the weighing, while meeting the requirements for automatic detection
- 5-inch HD smart touch screen, real-time dynamic analysis of the curve, direct display of moisture percentage/dry weight percentage/dry weight.
- The extreme heating temperature of 180°C meets the test of most samples
- 9 groups of recent test records, which can be retrieved at any time and the test results can be printed.
- Up to 110g oversized weighing.
- Weighing sensor.
- Stainless steel heating inner cabin to improve sample test efficiency

Product model	DHS-10A	DHS-16	DHS-16A	DHS-20A
Power Supply / V	220V3A			
Frequency / Hz	50±1			
Power / W	350			
Display	5 inch LCD screen			
Moisture Content Measurement Range / %	0-100			
Moisture Display Accuracy / %	0.02	0.02	0.01	0.01
Maximum Weighing / g	50	50	50	110
Weighing Display Accuracy / g	0.005			
Weighing Pan Diameter / mm	100			
Temperature Control Range / °C	50-180			
Temperature Control Accuracy / °C	±1			
Heating Method	Ordinary halogen lamps			
Timing Range / Min	0-99			
Rs232 Interface	/	√	√	√
Net Weight / kg	2.9			
Product Dimension (L×W×H) / mm	170×320×138			





## PH-PRO SERIES PEN-TYPE PH METER

water proof pen-type PH meter is suitable for measuring the pH of non-high temperature, non-corrosive liquids. Widely used in water quality testing, food brewing, cosmetics testing, sewage treatment, health institutions and so on.

### Product Features

- LCD display PH Value, temperature, intuitive and clear
- Automatic temperature compensation
- Temperature unit conversion function
- Data retention
- Can be used for skin or paper pH measurements, electrode head can be replaced
- Waterproof design and built-in buoyancy device
- Omron waterproof button, life of more than 20,000 press times
- Ultra-low power processor
- Calibration method can be selected for multi-point calibration or single-point calibration
- Electrode loss can be viewed for timely replacement of the electrode head
- GB standard, ASTM standard and European standard available
- Automatic shutdown time can be set



Product model	PH-100Pro	PH-100Pro +
Power Supply	2×1.5VAAA Cell	5V1A
Display	Backlit LCD screen	VA black film process screen
PH Range	+2.00~+12.00PH	+2.00~+12.00PH
PH Accuracy	±0.01PH	±0.01PH
Temperature Range	0-60. 0°C/32-140°F	0-60. 0°C/32-140°F
Type of Electrode	Bubble electrodes	Flat electrodes
Weight / kg	0.11	0.11
Dimension / mm	Φ37×177	Φ37×177



LCD



Automatic Temperature Compensation



Multi-point Calibration



Rechargeable

## PH SERIES PEN-TYPE PH METER

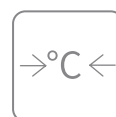
pen type PH meter is designed for easy use, field operation, and displays both pH and temperature values. Widely used in tap water monitoring, aquaculture, environmental protection, printing and dyeing, electroplating, beverage industry and scientific research.

### Product Features

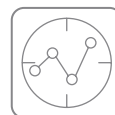
- LCD display, intuitive and clear
- Automatic temperature compensation
- Temperature unit conversion function
- Data retention
- Blue ball bubble, ceramic temperature electrode, electrode head can be replaced
- Waterproof design and built-in buoyancy device
- Omron waterproof button, life of more than 20,000 press times
- RAM integrated chipset
- Calibration method can be selected for multi-point calibration or single-point calibration
- Backlit for clearer display(PH-100A-only).
- External long-line composite electrodes can be used to accommodate a wide range of measurement environments (PH-100B-only).



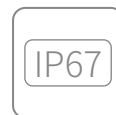
LCD



Automatic Temperature Compensation



Multi-point Calibration



IP67



pH-10



pH-100



pH-100A



pH-100B

Product model	PH-10	PH-100	PH-100A	PH-100B
Power Supply	1.5V battery LR44×4pcs			
Display	LCD			
PH Measurement Range	2.1-12.0	2.01-12.00		
PH Basic Error	±0.1PH	±0.02PH		
Temperature Compensation Function / °C	0-50			
Type of Electrode	Ceramic electrodes			E-201-C composite electrode
Net Weight / g	88	88	88	88
Product Dimension (Ø ×L) / mm	Ø 40×85	Ø 40×85	Ø 40×85	Ø 40×85



## PHB SERIES NEW PH METER

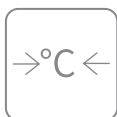
portable PH meter equipped with efficient composite electrodes, accurate measurement. Suitable for measuring the PH value of aqueous solution in chemical and chemical industry, light industry, dye, environmental protection and other industries.

### Product Features

- LCD display, blue backlight, clear data vision
- Multi-function meters such as PH, mV(ORP), °C、°F can be switched.
- Smart chip that supports automatic calibration of one, two or three points at any time
- Equipped with high-efficiency composite electrodes, accurate measurement, stable and reliable performance
- Undervolted pressure indication to avoid interruption of the experiment due to undervolted pressure
- Optional special electrodes to measure the pH of ultrapure water, pure water and boiler water
- HOLD data retention function makes it easy to observe the measurement results
- Manual / automatic temperature compensation (LC-PHB-1M only manual type available).
- Can be operated with 2 batteries of AAA



LCD



Temperature Compensation

Product Model	LC-PHB-1M	LC-PHB-1A
Power Supply	2 AAA Batteries	
Display	LCD	
PH Measurement Range	(0.00~14.00)PH	
PH Measurement Error	±0.03PH	
ORP Measurement Error	(-1999~1999)mV	
ORP Basic Error	±0.2%FS	
Temperature Compensation Function	Manual	Manual / automatic
Temperature Compensation / °C	0~60	
Type Of Electrode	E-201-C composite electrode	
Net Weight / kg	0.14	0.14
Product Dimension(L×W×H) / mm	170×75×30	170×75×30



PHB-1A



PHB-1M



## CT SERIES PEN-TYPE CONDUCTIVITY METER

### Product Features

- LCD display conductivity value, temperature, intuitive and clear;
- Automatic temperature compensation
- Temperature unit conversion function
- Data retention
- High-efficiency platinum black electrode, electrode head can be replaced, easy to use
- Waterproof design and built-in buoyancy device
- Omron waterproof button, life of more than 20,000 press times
- RAM integrated chipset
- Multi-point calibration or single-point calibration method



LCD



Automatic Temperature Compensation



IP67



Platinum Black Electrode

Product model	CT-2	CT-20
Power Supply	1.5V Cell LR44×4pcs	
Display	LCD	
Measurement Range	0-2000μs/cm	0-20.00ms/cm
Measurement Accuracy	±2%FS	
Temperature Compensation Function / °C	0-50	
Type of Electrode	High-efficiency platinum black electrode	
Net Weight / g	88	88
Product Dimension(φ× L )/mm	φ40×185	φ40×185





## PORTABLE CONDUCTIVITY METER

Conductivity meter is a lab instrument measuring the conductivity of aqueous solution, it is widely used in petrochemical, biomedicine, sewage treatment, environmental monitoring, mining smelting and other industries and tertiary institutions and scientific research units. With the appropriate constant conductivity, it can also be used to measure the conductivity of pure or ultrapure water in electronic semiconductors, the nuclear energy industry and power plants.

LC-DDB-1A

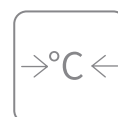


### Product Features

- LCD backlit displays conductivity values, temperature
- Powered by a AAA batteries and easy to carry and can be used in the field
- Backlit function can be turned off and low power consumption
- 5 measurement ranges can be selected
- Temperature compensation function
- Temperature unit conversion function
- Data retention
- High-efficiency platinum black electrode, electrode head can be replaced
- Multi-point calibration or single-point calibration



LCD



Temperature Compensation



Platinum Black Electrode



LC-DDB-1M

Product Model	LC-DDB-1M	LC-DDB-1A
Conductivity (Measurement Range).	0.00~19.99 $\mu$ S/cm、 20.0~199.9 $\mu$ S/cm、 200~1999 $\mu$ S/cm、 2.00~9.99mS/cm、 10.0~100.0mS/cm (with an electrode of constant of 10).	0.00~19.99 $\mu$ S/cm、 20.0~199.9 $\mu$ S/cm、 200~1999 $\mu$ S/cm、 2.00~9.99mS/cm、 10.0~100.0mS/cm (with an electrodes of constant of 10).
Temp (Measurement Range) / °C	/	(0.0~60.0)
Conductivity (Measurement Error).	0.5%(F.S)	0.5%(F.S)
Temperature (Measurement Error).	/	$\pm 0.2^{\circ}\text{C}$
Temperature Compensation Function	Manual	Manual / automatic
Temperature Compensation Range / °C	0.0~60.0	
Power Supply	2 alkaline batteries of AAA	
Product Dimension / mm	170×75×30	170×75×30
Net Weight / g	135	135



## WGZ SERIES TURBIDIMETER

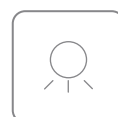
WGZ series scattering light turbidity meters are used to measure the degree of scattering caused by insoluble particulate matter suspended in water or transparent liquids and to quantify the content of these suspended particulate matter. Widely used in pure water plants, waterworks sewage treatment plants, beverage plants, environmental protection departments, industrial water, wine industry and pharmaceutical industry and so on.

### Product Features

- LED light with 850nm wavelength to meet ISO7027 standards
- Using the principle of scattering-transmission light measurement, the scattered light signal is received in multiple directions and the ratio is calibrated
- Range automatically switches and automatically zero set
- Multi-point calibration is supported



LCD



LED



Automatic Range Switching



Multi-point Calibration

Product model	Desktop WGZ-1A	Portable WGZ-1B	Portable Microcomputer WGZ-1BW
Power Supply	AC 220V/50HZ	DC 1.5V×5 AA alkaline dry battery	AC 220V/50Hz/DC7.5V/0.2A
Display	LCD		
Measurement Principle	Scattering light at 90degrees		
Measurement Range (NTU).	0-200.0		
Value Error / %	±8(±2.5%FS)		
Repeatability / %	≤0.8	≤1	≤0.8
Zero Drift	±0.8 %FS	±1%FS	±0.8%FS
Net Weight / kg	0.95	0.3	0.25
Dimension / mm	400×300×250	235×75×65	210×75×70





## DIGITAL DISPLAY REFRACTOMETER

Digital display refractometer, also known as digital display brix meter, digital display concentration meter, fruit brix meter. With a wide range of measurement, it is suitable for measuring various types of juice, food, beverages, and certain chemicals or industrial solvents such as cutting oil, cleaning fluid and antifreeze, etc.

### Product Features

- LCD screen display brix, temperature, which is clear and intuitive
- Touch-key, one-click measurement, 3 seconds waiting time, easy to use
- Zinc alloy sampling cell with precision glass prism at the bottom
- No cover design, built-in filter
- Measurements are not affected by strong light or color of solution
- Automatic temperature compensation, strong adaptability
- Can be calibrated with tap water
- Automatic shutdown after 2 minutes without operation, energy saving



LCD

Automatic Temperature  
Compensation

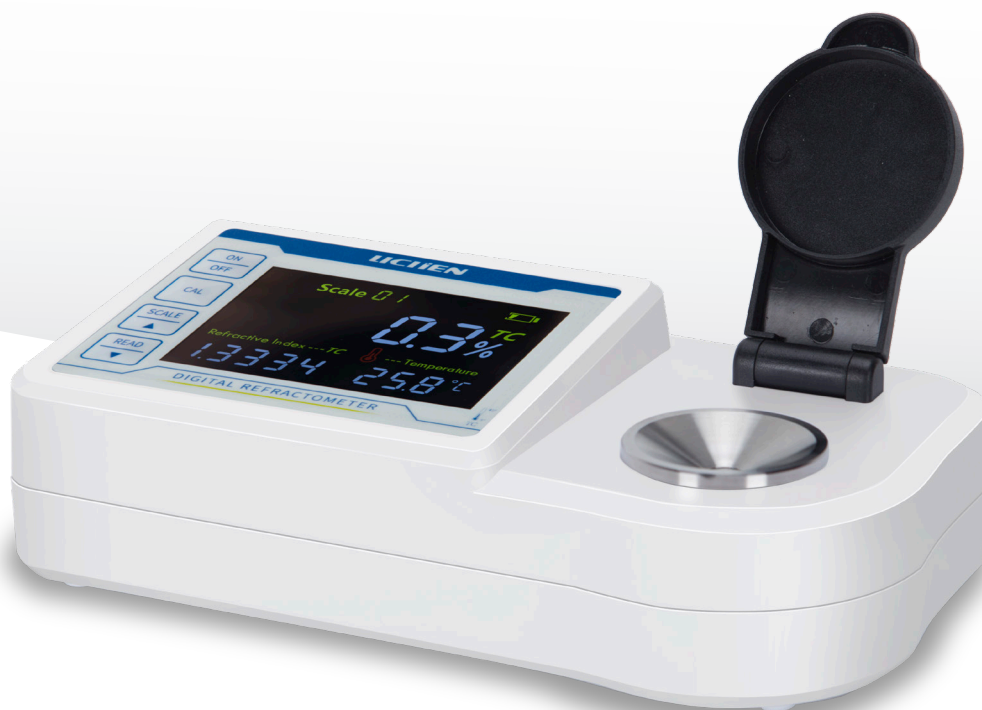
Clean Water Calibration



Automatic Shut-down



Product Model	LC-DR-32B	LC-DR-53B
Power Supply	AAA Battery × 2	
Display	LCD screen	
Solubility / %	Brix0.1	
Measurement Range / %	Brix0.0-32.0	Brix0.0-53.0
Measurement Accuracy / %	Brix±0.2	
Sampling Volume / ml	> 0.3	
Testing Seconds	About 3s	
Temp Compensation Range / °C	10~75	
Ambient Temperature / °C	10-40	
Net Weight / g	115	115
Product Dimension (W×D×H) / mm	60×31×113	60×31×113



## BENCH TOP REFRACTOMETER

LLC-DRT-94B benchtop refractometer uses a high-precision sensor of line array CMOS with high sampling accuracy and good repeatability. The measuring surface adopts sapphire glass, which is harder and uneasy to be scratched, while the 5-inch LCD screen making data reading easier. Equipping with standard replaceable 18650 lithium and PC software extensions, users can customize their own programming. Applicable in scientific research lab, food and beverage quality control, health care and automotive industries.

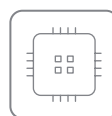
Product model	LC-DRT-94B
Power Supply	Rechargeable lithium battery
Display	Colored LCD screen
Solubility / %	Brix0.1
Measurement Range / %	Brix0.0-94.0
Measurement Accuracy / %	Brix±0.1
Sampling Volume / ml	> 0.4
Testing Seconds	About 2 seconds
Temp Compensation Range / °C	0 ~ 40
Ambient Temperature / °C	10-40
Net Weight / g	365 (without battery)
Product Dimension (W×D×H) / mm	800×100×55

### Product Features

- LCD display brix, temp and refractive index, clear and intuitive
- Line array CMOS high-precision sensor
- Sapphire glass measuring surface
- With a prism cover to protect the sample and ensure the accuracy of the sample
- Automatic temperature compensation, high adaptability
- PC software extensions that allow customize programming



LCD



MOS Sensor



Automatic Temperature Compensation



Custom Programming

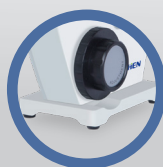






## ABBE REFRACTOMETER

Abbe refractometer is an instrument which can measure refractive index and average dispersion of transparent, translucent liquid or solid (which is mainly to measure transparent liquid). Refractive index and average dispersion are one of the important optical constants of matter, which can be used to understand the optical properties, purity, and dispersion size of matter. Applicable for testing & analysis in sugar, pharmaceutical, beverage, petroleum, food, chemical industry, scientific research and teaching.



### Product Features

- Base made of SS and the prism is made of hard glass
- Adopts visual aiming, optical disk readings, simple operation
- An external thermostat can be connected to test refractive index of transparent, translucent liquid or solid substance at a temperature of 0 ~ 70°C
- External standard temp screen can be connected

Product Model	WYA-2WJ
Observation	Monocular
Refractive Index Measurement (RIM) Range	1.3000 ~ 1.7000(nD)
Accuracy of RIM	±0.0002nD
Brix Measurements Range / %	0~95(brix)
Brix Measurements Accuracy	±0.2(Brix)
Average Dispersion Value	±0.0005nD
Standard Block Specifications / mm	38×15×9
Temp Displayed	Digital thermometer
Thermometer Power Supply	Button cell
Net Weight / kg	1.75
Product Dimension(L×W×H) / mm	100×200×240

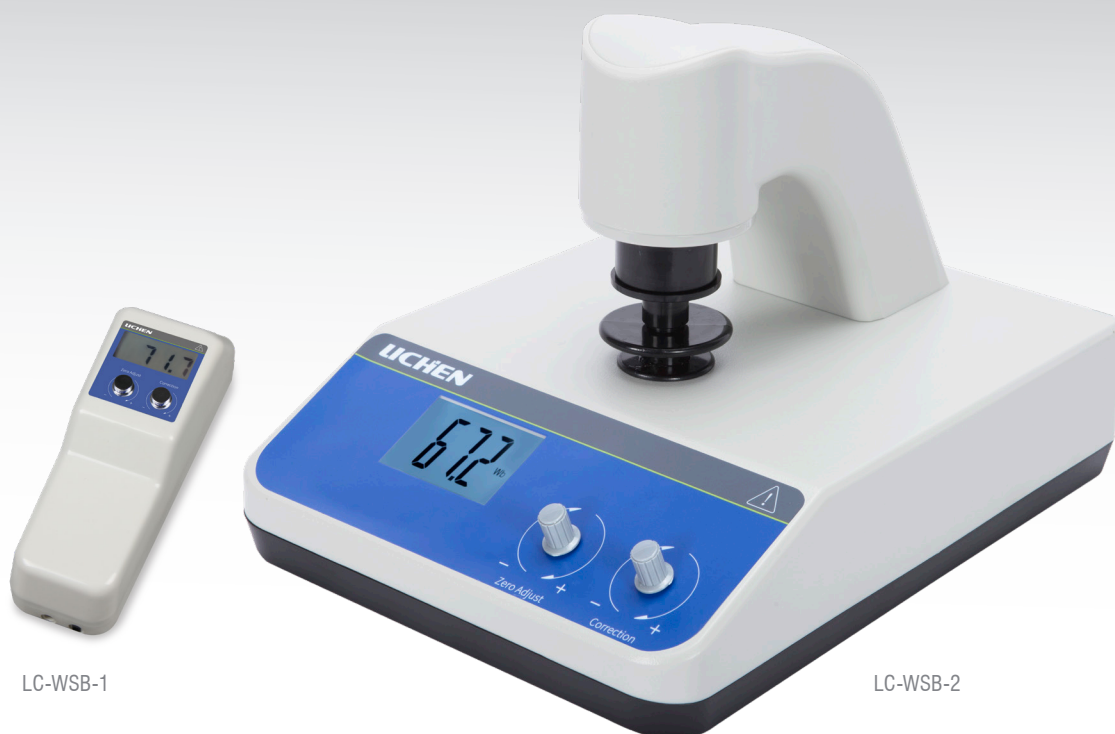
## DIGITAL DISPLAY WHITENESS METER

Digital Display whiteness meter uses the photoelectric conversion, principle and adopts an analog-to-digital conversion circuit to measure the radiance energy value reflected on the sample surface. After signal application, A/D conversion and data processing, the corresponding whiteness value is finally displayed. Applicable in measuring whiteness of white and near white objects or powder surface

### Product Features

- LCD screen, low power configuration
- Special high-efficiency LED light source, stable performance, long service life
- Stable data measurement, high repeatability, low error
- Only 30 seconds warm-up
- Compact design, lightweight, AC/DC powered, portable and handheld.
- Low voltage Indication, automatic shutdown

Product Model	WSB-1	WSB-2
Power Supply	DC1.5V×5 AAA alkaline dry batteries; AC220V/50Hz	AC220V, 50Hz
Display	LCD screen	
Measurement Range	0-199	
Measure Aperture / mm	φ15	φ30
Zero Drift	≤0.2/10min	
Value Drift	≤0.3/3min	
Repetitive Error	0.2	≤0.3
Net Weight / kg	0.4	2.1
Product Dimension / mm	70×220×75	260×330×250



LC-WSB-1

LC-WSB-2



## FLAME PHOTOMETER

Flame photometers are an analytical instrument based on emission spectra. Includes: gas and flame combustion part, optical part, photoelectric converter and inspection record part. The heat of the flame can make the atom of an element stimulate luminescence, and use the instrument to detect the strength of its spectral energy, and then judge the content of an element in the substance.

### Product Features

- LCD display, intuitive and clear
- One-click automatic ignition
- With flame size pre-selected function
- Fire detection and automatic cutting off of the gas function
- With RS232 interface, you can connect the printer to upload data
- High-grade gas control valve with a wider linear adjustment range



Model	WGH6400	WGH6400(For Soil Fertilizer).	WGH6400(Cement-Specific).
Power Supply / V	220AC		
Frequency / Hz	50		
Power / W	30		
Display	LCD screen		
Measuring Elements	K, Na		
Measurement Range / ug/ml	K:0~100 Na:0~100	K:0~100 Na:0~160	K:0~100 Na:0~160
Detection Limits / mmol/L	K:≤0.004 Na:≤0.008		
Stability	With continuous samples of standard solutions, the relative maximum amount of change in instrument values within 15s ≤3% 1 time measurement per minute, and the relative maximum change in instrument display 6 times was measured ≤ 15%.		
Repeatability	Repeat 7 consecutive independent measurements of the same standard solution ≤3%.		
Linear Error / mmol/L	K:≤0.005 On:≤0.03		
Curve Calibration Method	Two-point method		
Sampling Velocity	< 6mL/min		
Net Weight / kg	10	10	10
Product Dimension(L×W×H) / mm	400×275×460	400×275×460	400×275×460



## BENCHTOP VISCOMETER (TUSI CUP)

This product is one of the most widely used viscosity cups in China. It is designed and manufactured conforming to the requirements of the national standard GB/T1723 Coating Viscosity Measurement Method, it is suitable for measuring coating product with viscosity below 150s. The viscosity measured by the coating-4 viscosometer is the condition viscosity, i.e., the time in seconds, for a certain amount of sample to flow out of the hole of the specified aperture at a certain temperature.

### Product Features

- Flow cup is made of pure brass
- Surface chrome plating process, anti-oxidation
- Stainless steel columns



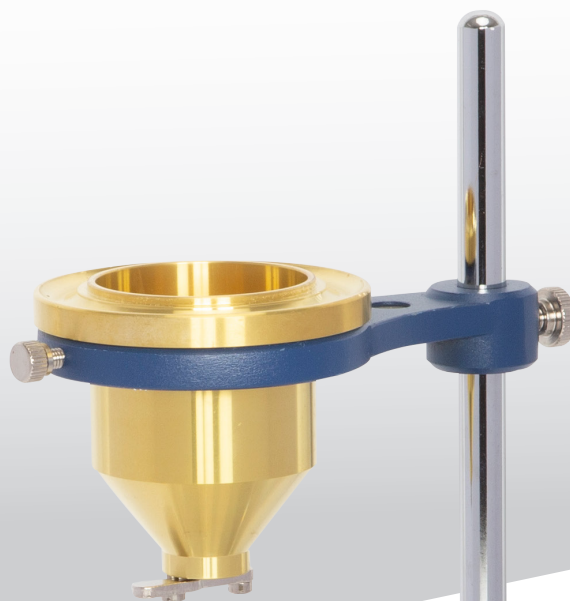
Brass Flow Cup



Portable Design



International Standards



Model	NDJ-5 bechtop
Capacity / ml	100±1
Length of Discharging Nozzle / mm	4±0.2
Inner Diameter / mm	φ49.5±0.2
Inner Diameter of The Nozzle / mm	φ4±0.2
Angle of Inner Cone	81 °± 15'
Net Weight / kg	1.9
Product Dimension / mm	350×180×166



## NDJ-S SERIES DIGITAL DISPLAY VISCOMETER

NDJ-5S/8S/9S digital display viscometer is a precision instrument used to measure the absolute viscosity of Newtonian liquids and apparent relative viscosity of non-Newtonian liquids. Widely used in measuring grease, paint, plastics, drugs, food, coatings, glue, adhesive meters, resins, chemical raw materials and other products.

### Product Features

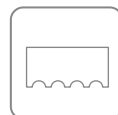
- Lifting system uses a slanted tooth strip /oblique gear
- A universal connector has been added to the connector connecting the rotor
- Variable speed gears are high wear-resistant, high-performance engineering plastics
- Rotor is made of imported high-quality 304 stainless steel finishing
- Digital blue backlit LCD screen
- Microcomputer control technology, data collection is correct



LCD



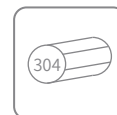
Microcomputer Control



Rack lift



Universal Interface



304 Stainless Steel Rotor

Product Model	NDJ-5S	NDJ-8S	NDJ-9s
Power Supply / Frequency	AC220V±10V 50Hz±11%		
Power / W	0.2	0.2	0.2
Display	LCD screen		
Measurement Range (mPa.S)	$1-1 \times 10^5$	$1-2 \times 10^6$	$1-1 \times 10^5$
Rotor Specifications	1, 2, 3, 4 rotors (optional No. 0 rotor can measure viscosity of 0.1-10mPa.s)		
Rotor Speed / rpm	6/12/30/60	0.3/0.6/1.5/3/6/12/30/60	6/12/30/60
Measurement Accuracy / % (Newton Liquid)	±2		
Repeat Error / % (Newton Liquid)	±1		
Temperature Sensor Interface	/	/	be
RS232 Interface	Optional	Optional	Optional
Net Weight / kg	6.8		
Product Dimension(L×W×H) / mm	370×325×281		



