



Four E's Scientific, part of the FOUR E's Industrial Group established in 2009, is focused on providing laboratories worldwide with high-quality instruments & supplies, thereby furthering Scientific Research. Today, we are one of the fastest growing manufacturers of laboratory instruments and life science tools in the world.

We offer a comprehensive range of products that includes life science tools, liquid handling products, and laboratory instruments that finds application in all types of research and testing settings, starting from basic laboratory applications to highly specialized life science applications. Four E's products have been empowering our customers to explore and innovate in fields such as life science research, healthcare & diagnostics, chemistry, environment, food & agriculture

Backed by an excellent R&D center, state-of-the-art manufacturing facilities certified by ISO 9001 & ISO 13485, and an end-to-end quality management system, we deliver superior quality products that offer unrivaled price-performance ratio. Our products are sold in over 70 countries worldwide and we are a preferred OEM/ODM partner for many global brands.











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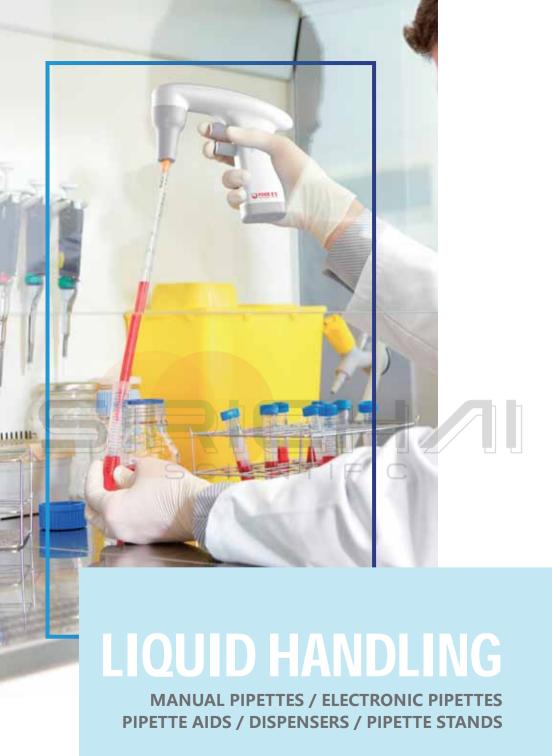
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Precipette TM SINGLE-CHANNEL ADJUSTABLE VOLUME PIPETTE

FEATURES

- Ergonomic design provides good hand grip, and combined with ultra-light weight offers fatique-free pipetting
- Low operating force required for control button avoids repetitive strain injuries
- Ergonomically positioned ejector button with low plunger force for easy tip ejection
- Dispensing volume range of 0.1ul-10ml
- Color codes on top to easily identify different volume ranges
- Large 4-digit volume display offers high display accuracy of up to 0.002ul
- Centrally placed view window makes volume reading and adjustment easy for both left and right-handers
- Elastic tip cone ensures perfect seal with tips and allows for easy tip removal
- Each pipette is calibrated in accordance with ISO8655 and shipped with individual test certificates
- Durable material offers excellent temperature and chemical resistance
- The lower section can be autoclaved
- Easy to dismantle, and maintain
- Comes with tool for easy calibration



HIGH ACCURACY Calibrated to ISO 8655 standards



ADJUSTABLE VOLUME Volume Range: 0.1µL-10mL



AUTOCLAVABLE Lower Section can be autoclaved



SPECIFICATIONS

Model	Volume Range	Increment	Maximum permissible systematic error (Inaccuracy)	Maximum permissible random error (Imprecision)	Col	or
LH0301001	0.1-2.0µL	0.002µL	2.50%	2.00%	Brown	
LH0301002	0.5-10µL	0.01µL	1.00%	0.80%	Orange	
LH0301003	2-20µL	0.02µL	0.90%	0.40%	Purple	
LH0301004	5-50µL	0.05µL	0.60%	0.30%	Green	
LH0301005	10-100µL	0.1μL	0.80%	0.15%	Dark Blue	
LH0301006	20-200µL	0.2µL	0.60%	0.15%	Blue	
LH0301007	100-1000µL	1µL	0.60%	0.20%	Red	
LH0301008	1000-5000µL	5µL	0.60%	0.15%	Yellow	
LH0301009	1-10mL	10µL	0.60%	0.20%	Grey	



PrecipetteTM MULTI-CHANNEL ADJUSTABLE VOLUME PIPETTE

The use of a multi-channel pipette can greatly improve the efficiency and reproducibility for lab scientists working with microplates. Working with 8 channels substantially reduces the number of pipetting steps and improves work efficiency dramatically.

Four E's 8-channel pipette are designed for effortless pipetting due to light weight, light plunger forces and lowest tip ejection forces. The ergonomic design enables longer work periods without fatigue and minimizes the risk of repetitive strain injuries. Four-digit volume display provides accurate volumes setting, and easy visibility. Autoclavable lower section (at 121°C) provides effective decontamination.



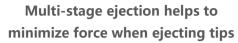
FEATURES

- Ergonomic design allows comfortable grip and fatigue-free pipetting
- 4-digit volume display provides accurate volume setting and easy visibility.
- Wide volume range: from 0.5~300ul
- Enjoy minimal tip attachment and ejection forces, minimizing the risk of repetitive strain injuries
- The lower part is autoclavable (at 121°C) to ensure sterility and avoid cross-contamination
- The lower part can be rotated 360° to suit personal preference.
- Easy to disassemble the lower part for replacement or cleaning
- Color-coded control button helps to identify different volume ranges easily
- Equipped with O-ring on the tip cone to ensure a tight seal



- ① Low plunger pressure
 - Color-coded control button for easy identification of different volumes
- ② Light ejection force
 - Less fatigue when ejecting tips
- 3 Easy-to-read 4-digit display
- 4 The lower part can be easily detachable
 - The lower part allows 360° rotation
 - Lower part is autoclavable (at 121°C)

- Slide downwards to open the cover
 - Easy to clean and replace pistons or cylinder
- **6** O-rings to ensure tight seal
 - Each tip cone can be individually replaced
 - Broadly compatible with various pipette tips on the market





Application

A multi-channel pipette is especially used in high-throughput experiments, where multiple samples or assays need to be processed quickly and accurately. Some common applications of a multi-channel pipette include





Clinical Diagnostics Labs Biotechnology Labs



Chemistry Labs



Environmental Labs



Food Testing Labs

Model	Volume Range	Increment	Testing Volume	permi syste	mum issible matic ror	permi	mum ssible n error	
			10	2.00%	0.200	1.00%	0.100	
MP10	0.5-10µL	0.01µL	5	4.00%	0.200	2.00%	0.100	
			1	8.00%	0.080	5.00%	0.050	
			50	1.00%	0.500	0.40%	0.200	
MP50	5-50µL	0.05µL	25	1.50%	0.375	0.80%	0.200	
			5	3.00%	0.150	2.00%	0.100	
			300	0.60%	1.800	0.30%	0.900	
MP300	30-300µL	0.5µL	150	1.00%	1.500	0.50%	0.750	
			30	3.00%	1.500	1.00%	0.500	





Pipette tip	Control button color	Number of channel	Autoclavable
10µL	Orange		
			Yes (Autoclavable
200μL	Green	8	lower section at 121°C)
300µL	Light blue		



				Pr	ecipette ¹	™ Tip
Duo n d	Values e				SIN	GLE-CH
Brand	Volume	0.1-2μL	0.5-10μL	2-20µL	5-50µL	10-
	0.1-10uL	√	√			
	2-200uL			√	√	
	20-300uL			√	√	
Eppendorf	50-1000uL					
	50-1250uL					
	0.1-5mL					
	0.5-10mL					
	0.5-10uL		√			
	0.5-20uL(10uL long)	√	√			
	200uL			√	√	
	300uL			√	√	
Axygen	1000uL					
	1250uL					
	5mL					
	10mL					
	0.5-10uL	√	√			
	200uL	h (√ 1	√	
	300uL			√	V	
Sartorius	1000uL				4//	
	1250uL					
	5mL	EN				
	10mL					
	0.1-10uL	√	√			
	0.1-10ul (long)	√	√			
	1-200uL			√	√	
QSP	5-300uL			√	√	
(Thermo Scientific)	100-1000uL					
	100-1250uL					
	5mL (wide-bore)					
	10mL					
	10uL	√	√			
	200uL	,	,	√	√	
	300uL			√	√	
Gilson	1000uL					
	5mL					
	10mL					

ip Co	mpatibil	ity					
CHANI					3	B-CHANNEL	
100μL	20-200μL	100-1000uL	1-5mL	1-10mL	0.5-10µL	5-50µL	30-300uL
					√		
\checkmark	√					√	
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ECTRONIC PIPETTES

Mr. Lite™ - ultra-light electronic pipette



COMPENSATES HAND-WARMING EFFECT

"Mr.Lite™" is the only one product in the world which solves the "Hand-Warming Issue" by automatically compensating dispensing volume

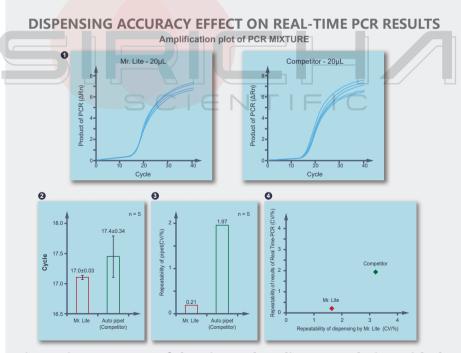


Features:

- Ultra-Light and Ergonomic Design
- Ease of Use: The world's first "Pen Grip" electronic pipette
- Solves the "Hand warming effect" by automatically compensating dispensing volume
- High Precision dispensing enabled by micro actuator
- Single and Multiple Dispensing modes
- Ideal for real-time PCR applications:
 Higher repeatability in real-time PCR results (dispensing accuracy effect on real-time PCR results : see Appendix)
- Solves inaccuracy issue because of hand-warming effect by automatically compensating the dispensing volume

SPECIFICATIONS

Item		Ultra-Light Electronic Pipette			
Dispensing R	lange	2-20µL	25-250µL	100-1000μL	
Repeatability	, (C\/)	20µL ≦ 0.4%	250µL≤0.15%	1000µL≤0.15%	
Repeatability	(CV)	2μL ≦ 2.0%	25µL≤0.7%	50μL≤0.5%	
Accuracy		20μL±1.0%	250μL±0.5%	1000μL±0.5%	
Accuracy		2μL±3.5%	25μL±1.5%	100μL±1.5%	
	Four E's	20μL(207)	250µL (703)	1000µL (806)	
Compatible	Watson	10μL(207)	200µL (703)	1000µL (806)	
Tips			300µL (505)	1200µL (706)	
	Gilson	-	DL300 20-300µL	DL1000 100-1000µL	
	Eppendorf	epT.I.P.S 0.5-20μL	epT.I.P.S. 20-300µL	epT.I.P.S. 50-1000μL	
Weight		Approximately 75g (including battery)			
Speed Levels		5 levels (Hi, 4, 3, 2, Lo)			
Battery Type		AAA Powered (Ni-MH) battery			



Dispensing Accuracy of the pipette has direct correlation with the Repeatability of real-time PCR Results

ELECTRONIC PIPETTE



FEATURES

- Compact, lightweight and ergonomic design.
- More advanced and user-friendly than manual pipette. Simplify pipetting and labor-saving
- High performance motor assures high precision, consistency and eliminates manual pipetting errors
- Large capacity battery enables longer operation time, easy to remove external battery.
- Optimized design of screen to reduce repeat operations
- Adjustable speeds for aspirating and dispensing
- Self-calibration
- A wide choice of pipetting modes



ELECTRONIC PIPETITE

SPECIFICATIONS

SINGLE-CHANNEL ELECTRONIC PIPETTE

Model	Volume Range	Increment	Volume (μL)	Inacc ±μL	uracy ≤%	lmpre ±μL	cision ≤%
EP0601121	0.2-10µL	0.1μL	15 10 2	0.025 0.075 0.1	2.5 1.5 1	0.015 0.035 0.04	1.5 0.7 0.4
EP0601131	0.5-20μL	0.1μL	10 20 10	0.15 0.15 0.2	7.5 1.5 10.04	0.04 0.05 0.06	2 0.5 0.3
EP0601141	2-100μL	0.5μL	50 100 20	0.2 0.4 0.6	2 0.8 0.6	0.1 0.15 0.15	1 0.3 0.15
EP0601151	5-200µL	1μL	100 200 50	0.5 0.8 0.75	2.5 0.8 0.75	0.2 0.025 0.04	1 0.25 0.2
EP0601161	10-500μL	2μL	250 500 100	0.8 1.2 2	1.6 0.48 0.4	0.35 0.6 0.8	0.7 0.24 0.16
EP0601171	50-1000μL	5µL	500 1000 500	2 2.5 4	2 0.5 0.4	0.6 1 1.5	0.6 0.2 0.15
EP0601181	0.1-5mL	25μL	2500 5000 1000	5 12.5 30	1 0.5 0.6	2.5 5 10	0.5 0.2 0.2
EP0601191	1-10 <mark>mL</mark>	100µL	5000 1000 10000	50 50 60	5.0 1.0 0.6	6 10 16	0.6 0.2 0.16

8 - CHANNEL ELECTRONIC PIPETTE

Model	Volume Range	Increment	Volume (μL)	Inacc ±μL	uracy ≤%	lmpro ±μL	ecision ≤%
EP0601211	0.2-10μL	0.1μL	1 5 10	0.025 0.06 0.008	2.5 1.2 0.8	0.015 0.02 0.025	1.5 0.4 0.025
EP0601221	5-100µL	0.5μL	10 50 100	0.2 0.4 0.5	2 0.8 0.5	0.1 0.12 0.15	1 0.24 0.15
EP0601231	10-300µL	2µL	30 150 300	0.75 1.05 1.2	2.5 0.7 0.4	0.24 0.3 0.45	0.8 0.2 0.15

12 - CHANNEL ELECTRONIC PIPETTE

Model	Volume Range	Increment	Volume (μL)	Inacc ±μL	uracy ≤%	Impre ±μL	cision ≤%
EP0601411	0.2-10μL	0.1μL	1 5 10	0.025 0.06 0.008	2.5 1.2 0.8	0.015 0.02 0.025	1.5 0.4 0.025
EP0601421	5-100µL	0.5μL	10 50 100	0.2 0.4 0.5	2 0.8 0.5	0.1 0.12 0.15	1 0.24 0.15
EP0601431	10-300µL	2µL	30 150 300	0.75 1.05 1.2	2.5 0.7 0.4	0.24 0.3 0.45	0.8 0.2 0.15

PIPETTE TIPS



All tips are DNase/RNase-free and pyrogen-free

Available types:

- Non-filter Tips: Bulk or Racked
- Filter Tips: Bulk or Racked
- Low Retention Tips: Filter or Non-filter, Bulk or Racked
- Stacked Refill Tips



ELECTRONIC PIPETTE FILLER

FEATURES

- Lightweight, ergonomic designs allow longer, fatigue-free pipetting
- Powerful motor fills a 25mL pipette in<5 seconds
- Overfilling and contamination are prevented by a 0.45 µm hydrophobic filter
- Autoclavable silicone pipette adapter
- Four speeds are available for aspirating and dispensing liquid
- Large color LCD display provides visual confirmation of remaining battery charge and speed settings
- Efficient lithium-ion battery offers long runtime on each charge
- Provides accurate, reproducible filling and dispensing from 0 .1 to 100 mL





0.45 μm hydrophobic filter

Prevents overfilling & contamination

Autoclavable silicone pipette adapter

for effective decontamination

SPECIFICATIONS

SPECIFICATIONS					
Model	EP101				
Pipette Type	Glass or Plastic Pipette (0.1-100ml)				
Speeds	4 levels				
Noise	<55db				
Display G C C	TED E I C				
Dimension (L*W*H)	56*146*40mm				
Weight	235g				
Permissible Ambient Temperature	5-40°C				
Permissible Relative humidity	10%-95%, No condensation				
Atmospheric Pressure	79.5 kPa-106 kPa				
Adapter Input Voltage	100-240V AC				
Adapter Frequency	50/60HZ				
Adapter Output Current	2A				
Adapter Output Voltage	5V DC				
Battery	Lithium-ion				
Battery Voltage	3.7V				
Battery Capacity	1600mAH				
Battery Life	About 10h				
Battery Charging time	About 2h				
Battery Weight	About 40g				

PIPETTE CONTROLLER

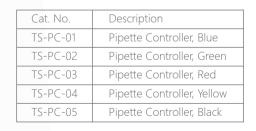
FEATURES

- Works with 0.1-100mL graduated glass and plastic pipettes
- Filling and delivery are easily controlled with a small sensitive lever
- With integral and replaceable filter
- Precise pipetting control
- Blue, Green, Red, Yellow and Black are available

Blow-out and discharge liquid by pressing down on the lever

Filling and the fill rate can be varied with the pipetting lever

Delivery and the flow rate does not affect accuracy due to the valve system



PIPETTE PUMP



FEATURES

Precise aspiration and dispensing with one-hand operation 2mL in blue, 10mL in green and 25mL in red Resistant to acids and alkalis Easy to disassemble for cleaning

Cat. No.	Description
TS-PP-01	Pipette Pump, 2ml, blue
TS-PP-02	Pipette Pump, 10ml, green
TS-PP-03	Pipette Pump, 25ml, red

SEROLOGICAL PIPETTE

SEROLOGICAL PIPETTES



Serological Pipettes

Available volumes: 1mL, 2mL, 5mL, 10mL, 25mL, 50mL

Cat. No.	Description
SLP100101	Serological Pipettes, 1mL
SLP100102	Serological Pipettes, 2mL
SLP100105	Serological Pipettes, 5mL
SLP100110	Serological Pipettes, 10mL
SLP100125	Serological Pipettes, 25mL
SLP100150	Serological Pipettes, 50mL

SPECIAL NOTCH DESIGN ENSURES COMPATIBILITY & EASY RETRIEVAL

FEATURES

Compact design; Occupies less bench space Compatible with all Major Pipette Brands Stable and reliable structure

FOUR E'S'



MIXING

Vortex Mixers

SHAKING

Shakers

Rockers

STIRRING

Magnetic Hotplate Stirrers

Magnetic Stirrers

Overhead Stirrers

SEPARATION

Centrifuges

Rotary Evaporators

Diaphragm Vacuum Pump

Recirculating Chiller

TEMPERATURE CONTROL

Dry Bath Incubators

Water Baths

Contrast Media Warmer





Vortex Mixers — Mini Vortex Mixer

FEATURES

- Built-in light indication varies with the battery level and the working status (VM112)
- 1600mAh Built-in lithium battery can operate the mixer for around 2 hours (VM112)
- USB interface is available for charging mobile devices
- Excellent mixing capability can be guaranteed
- Orbital diameter of 6mm
- Fixed speed of 5600rpm





SPECIFICATIONS

Model	VM112	VM112B	Output voltage	15 VDC	15 VDC
Type of movement	Orbital	Orbital	Output power	10 W	10 W
Orbital diameter	6 mm	6 mm	Permissible ambient	F 409.C	F 409C
Speed	5600 rpm	5600 rpm	temperature	5-40°C	5-40°C
Chargable	Yes	/	Permissible relative	000/	0.00/
USB interface	Yes	Yes	humidity	80%	80%
Battery capacity	1600 mAh	/	Protection class acc.	ID 41	ID 41
Battery operating time	2 Hour	/	to DIN EN60529	IP41	IP41
Voltage [VAC]	100-240	100-240	Dimension	168x150x85	168x150x85
Frequency	50/60 Hz	50/60 Hz	Weight [kg]	1	1

Vortex Mixers — Mini Vortex Mixer

FEATURES

- Touch function
- Fixed speed of 5000rpm
- Orbital diameter of 6mm
- Excellent mixing capability; can mix full 50ml containers within 5 seconds
- Patented foot pad design can hold the vortex mixer firmly in place when mixing
- Low operation voltage (12V) for full protection
- Power supply is CE, cULus, CCC, SAA and FCC certified



SPECIFICATIONS

Model	MI0101001	Permissible ambient	5-40°C	
Rated voltage [VAC]	100-240	temperature		
Rated frequency [Hz]	50-60	Permissible relative	80%	
Output voltage [VDC]	12	humidity		
Output power [W]	7.2	Weight [kg]	1	
Speed [rpm]	5000	Test tube size [mm]	Ф30	
Operating time [%]	100	Dimensions: (Φ x H) [mm]	100 x 78	
Protection class	II	Type of movement	Orbital	
Pollution degree	2	Orbital diameter [mm]	6	
Overvoltage category	II	Touch function	Yes	
EN 60529 protection Class	IP42			

Vortex Mixers — Vortex Mixer (Digital / Analog)

FEATURES

- Excellent mixing capability: can fully mix contents in 50ml tubes within 3 seconds
- Perfect dynamic balance design can eliminate any movement in mixing





- LED display for easy reading of time and speed
- Touch mode, timer mode and continuous mode are available

SPECIFICATIONS

Model	MI0101002D	MI0101002	
Operation mode	Continuous / touch operation	Continuous / touch operation	
Type of movement	Orbital	Orbital	
Orbital diameter	6mm	6mm	
Speed range	400-3000 rpm	0-3000rpm	
Speed display	LED	Scale	
Permissible ambient temperature	5-40°C	5-40°C	
Permissible relative humidity	80%	80%	
Protection class accordin to	ID 24	IP21	
DIN EN 60529	IP21		
Voltage [VAC]	200-240/115/100V compatible	200-240/115/100V compatible	
Power [W]	36	36	
Frequency [Hz]	50-60	50/60	
Motor rating input [W]	30	30	
Motor rating output [W]	15	15	
Dimensions (W x H x D)	107x146x166	107x146x166mm	
Weight [kg]	3	3	

APPLICATION OF ACCESSORIES

	ADJUSTABLE SPEED MODEL 400-3000RPM				
ACCESSORY	TOUCH MODE		CONTINUOUS MODE		
	HIGH SPEED	LOW SPEED	HIGH SPEED	LOW SPEED	
MI0101002-13	Υ	Υ	Υ	Υ	
MI0101002-31+		Υ		Y	
MI0101002-14		T		ļ ř	
MI0101002-32+		.,		.,	
MI0101002-14		Υ		Y	
MI0101002-33+		Υ		γ	
MI0101002-14		Y		Y	
MI0101002-34+		γ		V	
MI0101002-14		Y		Y	
MI0101002-35+		Υ		Y	
MI0101002-14		Y		Y	
MI0101002-36+		γ		V	
MI0101002-14+		Υ		Y	

ACCESSORIES



MI0101002-13 Standard top



MI0101002-14 Universal top plate



MI0101002-37 Erlenmeyer flask attachment 100-250ml, used with MI0101002-14



MI0101002-38
Platform pad for < Ф99mm tubes & small vessels



MI0101002-31Test Tube Attachment, 54 x Φ6mm, used with MI0101002-14



Test Tube Attachment, 18 x Φ10mm, used with MI0101002-14



MI0101002-33 Test Tube Attachment, 12 x Φ12mm, used with MI0101002-14



MI0101002-34Test Tube Attachment, 8 x Φ16mm, used with MI0101002-14



MI0101002-35Test Tube Attachment, 8 x Φ20mm, used with MI0101002-14



MI0101002-36 Microtiter plate attachment, used with MI0101002-14





FEATURES

- Max. load capacity (with platform) is 7.5kg
- A wide choice of platforms for various applications
- Over-load and over-speed detection and protection
- LED display for easy-reading of speed and time simultaneously
- Stylish, High Strength tempered glass front panel
- Timer with Automatic Alarm function allows for unsupervised operation
- Brushless DC motor is maintenance-free and provides long service life

Shakers — Orbital & Linear Shaker

- Continuous operation and timed operation in range of 0- 99h59min are available
- Supports both orbital shaking and linear shaking and easy to switch the shaking mode
- Digital speed control system ensures stable movement and prevents splashing









SPECIFICATIONS

Model	MI0103002	
Shaking motion	Orbital / Linear	
Motor type	Brushless DC motor	
Max. load capacity (with platform)	7.5kg	
Platform Size	317*317mm	
Orbital diameter	10mm	
Speed display	LED	
Speed range	20-500rpm	
Time display	LED	
Time range	0-99h59min	
Operation type	Continuous / timed operation	
Permissible ambient temperature	5-40°C	
Permissible relative humidity	80%	
Protection class acc. to DIN EN60529	IP21	
Voltage	100-240VAC	
Frequency	50/60Hz	
Power	40W	
Dimensions	452 x 407 x 105mm	
Weight	11kg	
	J T T T T T T T T T T T T T T T T T T T	
MI0103002-101 Universal attachment with 4 bars	MI0103002-102 Fixing clip attachment for 25mL flasks	

ACCESSORIES



MI0103002-102 Fixing clip attachment for 25mL flasks (16 fixing clips)



MI0103002-103 Fixing clipa ttachment for 50mL flasks (16 fixing clips)



MI0103002-104 Fixing clip attachment for 100mL flasks (16 fixing clips)



MI0103002-105 Fixing clip attachment for 250mL flasks (9 fixing clips)

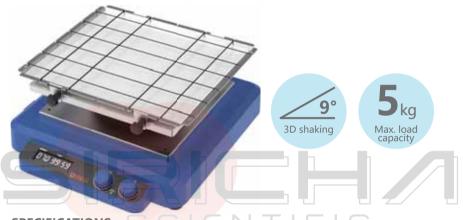


MI0103002-106 Fixing clip attachment for 500mL flasks (4 fixing clips)

Shakers —— 3D Shaker

FEATURES

- 3D shaking with an angle of 9°
- Max. load capacity (with platform) is 5kg
- A wide choice of platforms for various applications
- LED display for easy-reading of speed and time simultaneously
- Timer with Automatic Alarm function allows for unsupervised operation
- Anti-slip mat on the platform keeps the samples in position during operation
- Continuous operation and timed operation in range of 0-99h59min are available.



SPECIFICATIONS

Model	SK208	Operation type	Continuous/timed
Shaking motion	3D shaking	Орегацоп туре	operation
Tilt angle	9°	Voltage	100-240VAC
Max. load capacity	5kg (with platform)	Frequency	50/60Hz
Platform Size	317*317mm	Power	35W
Motor	Brushless DC motor	Permissible ambient temperature	5-40°C
Speed range	10-70rpm	Permissible relative humidity	80%
Speed display	LED	Protection class acc. to DIN EN60529	IP21
Time display	LED	Dimension	452x407x220mm
Time range	0-99H59min	Weight	12kg



MI0103002-101 Universal attachment with 4 bars



SK308-2-10 Dish platform with non-slip mat and fixing strings (6 pcs)

Shakers —— Rocking Shaker

FEATURES

- Rocking shaker with an angle of 9°
- Max. load capacity (with platform) is up to 10kg
- Brushless DC motor is durable and maintenance-free
- LED display for easy-reading of speed and time simultaneously
- Continuous operation and Timed operation in range of 0-99h59min are available
- Wide range of platforms can be used for petri dishes, flasks, culture flasks and tubes

• Anti-slip rubber mat in the platform can hold the sample containers effectively and prevent slipping





10kg
Max. load
capacity

SPECIFICATIONS

Model	SK308	Operation type	Continuous/timed
Tilt Angle	9°	Орегация туре	operation
Max. load capacity	10kg (with platform)	Dimensions	452x407x210mm
Platform Size	324*317mm	Weight	9.7kg
Speed range	10-70rpm	Permissible ambient temperature	5-40°C
Motor type	Brushless DC motor	Voltage	100-240VAC
Speed display	LED	Frequency	50/60Hz
Timer	YES	Power	40W
Time display	LED	Permissible relative humidity	80%
Time range	1min-99h59min	Protection class acc. to DIN EN 60529	IP21



MI0103002-101 Universal attachment with 4 bars



SK308-2-10 Dish platform with non-slip mat and fixing strings (6 pcs)

Rockers —— 3D Rocker (Digital)

FEATURES

- Adjustable speed of 10–70rpm
- Max. Load capacity (with platform) is 5KG
- LED display for easy-reading of speed and time simultaneously
- No-slip mat on the platform keeps the items in position during operation
- Undulating three-dimensional shaking motion, with 0°-8° adjustable tilt angle
- Continuous operation and timed operation in range of 0-99h59min are available
- Ideal for generating the three-dimensional motion commonly preferred for molecular biology applications



7 2011 10 110 110			
Model	SK420	Operation type	Continuous/timed
Shaking motion	3D shaking	Operation type	operation
Tilt angle	0-8°	Voltage	100-240VAC
Max. load capacity	5kg (with platform)	Frequency	50/60Hz
Platform Size	330*330mm	Power	35W
Motor	Brushless DC motor	Permissible ambient temperature	0-40°C
Speed range	10-70rpm	Permissible relative humidity	80%
Speed display	LED	Protection class acc. to DIN EN60529	IP21
Time display	LED	Dimension	452x407x225mm
Time range	0-99H59min	Weight	9kg

Rockers — 3D Rocker (Analog)

FEATURES

- Compact design, can be used in incubators and cold rooms
- Adjustable speed 0 100 RPM
- Max. Load capacity (with platform) is 2KG
- No-slip mat on the platform keeps the items in position during operation
- Undulating three-dimensional shaking motion, with 0°-8° adjustable tilt angle
- Ambient operating temperature range is 5° C to 40° C, and the max. permissible humidity is 97%

• Ideal for generating the three-dimensional motion commonly preferred for molecular biology applications



Model	SK410	Voltage	100-240VAC
Shaking motion	3D shaking	Frequency	50/60Hz
Tilt angle	0-8°	Power	5W
Max. load capacity	2kg (with platform)	Permissible ambient temperature	5°C-40°C
Platform Size	180*180mm	Permissible relative humidity	97%
Motor	Brushless DC motor	Protection class acc. to DIN EN60529	IP42
Speed range	0-100rpm	Dimension	190x190x160 mm
Operation type	Continuous	Weight	1.9kg



5" Multi Magnetic Hotplate Stirrers With Hub Control

- The hub controller comes with a 7-inch, high resolution LCD touch screen.
- Temperature, Speed and Run Time for each magnetic hotplate stirrer can be set and adjusted using the hub controller
- Bluetooth, 2.4G wireless and wired USB connectivity options for real-time data transmission and control provide increased flexibility for users
- Large capacity 5000mAh battery support long-term working.
- The maximum hotplate temperature is up to 310°C, and the safety temperature range is 50°C-325°C.
- PID controller ensures rapid heating and accurate temperature control
- The ceramic coated heating plate is resistant to high temperature, chemical corrosion and is easy to clean.
- Brushless DC motor is maintenance free.
- Automatically identifies external temperature sensor PT1000 and transfer to PT1000 operation mode.
- LED display on the hotplate stirrer displays equipment tracking number for easy identification, speed, and temperature





DIMENSION

Item	Length(mm)	Width(mm)	Height(mm)
Controller	263	126	40
Charging stand	167	134	92
Magnetic hotplate stirrer	166	166	106

MAGNETIC HOTPLATE STIRRERS	
Model	MS321
Set-up plate material	Aluminium alloy with ceramic coating
Set-up plate dimensions	Φ5 inches
Heating temperature range	Room temp. to 310°C
Speed range	50-1500RPM
Safety temperature	50°C to 325°C
Speed control accuracy	±1RPM
Temperature control accuracy	±1°C
Time range	99H59min
Maximum stirrer connections	Wired connections: 6
Maximum surrer connections	Wireless connections: no limit
Motor input	24V, 30W
Motor	Brushless DC motor
External temperature sensor	Yes
Max. stirring quantity (H₂O)	20L
Power supply	200-240/100-120 VAC; 50/60Hz
Stirring bar	55MM
Power switch	Yes
Display	LED
Dimension	166x166x106mm

HUB CONTROLLER		
Display	7-inch touch screen	
Rechargeable battery	Lithium polymer battery: 7.4V	
Charging time	3 hours	
Battery capacity	5000mAh	
Battery life	8H	
Main controller dimension	263x126x40mm	

CHARGING STAND		
Power input	200-240/100-120 VAC; 50/60Hz	
Power input interface	DC port	
Cable type	2-meter cable x 6	
Wireless effective connection distance	10m	



Stirring — 7" Magnetic Hotplate Stirrer

- Hot surface warning at 50°C to prevent burns
- Independent digital wheels adjust the speed and temperature
- LED digital displays the target and actual speed and temperature
- Temperature is up to 510°C and the safety temperature is 50-550°C
- The external temperature sensor PT1000 enables precise control: accuracy of ±1°C
- PID controller provides rapid heating and ensures long-time continuous operation
- Digital process timer allows for unsupervised operation and can be set from 0 to 99h59min
- Double over-temperature protection by the hardware and software provides high safety and reliability
- Stainless steel with ceramic coated heating plate can be resistant to high temperature, impact, and thermal shock
- Fully enclosed alloy casing provides high temperature resistance, excellent heat dissipation.
- Powerful stirring performance supports large stirring quantities up to 20L (H₂O) and ensures a stable running of 5L (H₂O) with the Ф8.5*50mm stirring bar at the max, speed of 1500rpm





SPECIFICATIONS		
Model	MI0102005	
Stirring position	1	
Set-up plate dimensions [mm]	185 x 185	
Set-up plate material	Stainless steel with ceramic coated	
Motor type	Brushless DC motor	
Max. stirring quantity (H₂O) [L]	20	
Max. stirring bar [L x Ф, mm]	80 х Ф9.5	
Motor rating input [W]	30	
Motor rating output [W]	20	
Speed range[rpm]	50-1500	
Speed display	LED	
Heating output [W]	1000	
Heating temperature range [°C]	Room temp510	
Temperature display	LED	
Temperature display accuracy [°C]	±0.1	
Safety temperature [°C]	50-550	
External temperature sensor	PT1000	
Control accuracy with external	±1	
temperature sensor PT1000[°C]	±1	
Control accuracy with internal	±1(<100°C), 1%(≥100°C)	
temperature sensor PT1000[°C]	±1(<100 C), 1/0(≥100 C)	
Hot surface warning	50°C	
Time display	LED	
Time range	0-99h59m	
Dimensions [W x D x H, mm]	220 x 350 x 100	
Protection class according to DIN EN60529	IP42	
Permissible ambient temperature [°C]	5 - 40	
Permissible relative humidity	80%	
Voltage [VAC]	200-240/100-120	
Frequency [Hz]	50/60	
Power [W]	1050	

Stirring — 5" Magnetic Hotplate Stirrer (Digital)

- LED digital display for easy reading
- Hot surface warning to prevent burns
- High safety and strong stirring performance
- 3D digital wheel adjustment of speed and temperature
- Brushless DC motor is maintenance free and explosion proof
- Temperature is up to 310°C and the safety temperature is 50-320°C
- Double internal temperature sensor PT1000 and one external PT1000
- Enclosed heating plate design reduces the risk of liquid splashing into the equipment
- Optimized PID program control provides extremely high



TIRRING

Model	MI0102002	
Stirring position	1	
Set-up plate dimensions [mm]	Ø 137	
Set-up plate material	Stainless steel with ceramic coated	
Motor type	Brushless DC motor	
Max. stirring quantity [H₂O, L]	20	
Max. stirring bar [L x Ф, mm]	55*10	
Motor rating input [W]	30	
Motor rating output [W]	20	
Speed range[rpm]	50-1500	
Speed display	LED	
Heating output [W]	600	
Heating temperature range	Room temp310°C	
Temperature display	LED	
Temperature display accuracy	±0.1	
Safety temperature [°C]	50-325	
External temperature sensor	PT1000	
Control accuracy with external temperature sensor PT1000[°C]	±1	
Hot surface warning	50°C	
Permissible ambient temperature [°C]	5 - 40	
Permissible relative humidity	80%	
Protection class according to DIN EN 60529	IP 42	
Voltage [VAC]	200-240/100-120	
Frequency [Hz]	50/60	
Power [W]	650	
Dimensions [W x D x H, mm]	159 x 253.5 x 93	
Weight [kg]	2.7	







Stirring

5" Magnetic Hotplate Stirrer (Economy version)

- LED digital display for easy reading
- Hot surface warning to prevent burns
- High safety and strong stirring performance
- 3D digital wheel adjustment of speed and temperature
- Brushless DC motor is maintenance free and explosion proof
- Temperature is up to 280°C and the safety temperature is 50-320°C
- Double internal temperature sensor PT1000 and one external PT1000
- Enclosed heating plate design reduces the risk of liquid splashing into the equipment
- Optimized PID program control provides extremely high accuracy of temperature and speed
- Automatically identifies temperature sensor PT1000 and transfer to PT1000 operation mode
 Stainless Steel with ceramic coated heating plate allows for optimum heat transfer and easy to clean



Model Model	NAI0102002
	MI0102003
Stirring position	1
Set-up plate dimensions [mm]	Ø 137
Set-up plate material	Stainless Steel with ceramic coated
Motor type	DC motor
Max. stirring quantity [H₂O, L]	5
Max. stirring bar [L x Φ, mm]	55x10
Motor rating input [W]	3
Motor rating output [W]	2.5
Speed range[rpm]	100-1500
Speed display	LED
Heating output [W]	600
Heating temperature range	Room temp280°C
Temperature display	LED
Temperature display accuracy	±0.1
Safety temperature [°C]	50-320
External temperature sensor	Optional
Control accuracy with external temperature	±1 ₁ , 2, ±1 ₂ ,
sensor PT1000[°C]	
Hot surface warning	50°C
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity	80%
Protection class according to DIN EN 60529	IP 42
Voltage [VAC]	200-240/100-120
Frequency [Hz]	50/60
Power [W]	630
Dimensions [W x D x H, mm]	268 x 160 x 85
Weight [kg]	1.8





Stirring

5" Magnetic Hotplate Stirrer (Analog)

- Hot surface warning to prevent burns
- High safety and strong stirring performance
- Double internal temperature sensor PT1000
- 3D digital wheel adjustment of speed and temperature
- Brushless DC motor is maintenance-free and explosion-proof
- Temperature is up to 310°C and the safety temperature is 50-325°C
- Enclosed heating plate design reduces the risk of liquid splashing into the equipment
- Optimized PID program control provides extremely high accuracy of temperature and speed
- Stainless Steel with ceramic coated heating plate allows for optimum heat transfer and easy to clean



STIRRING

Model	MI0102010	
Stirring position	1	
Set-up plate dimensions [mm]	Ø 137	
Set-up plate material	Stainless steel with ceramic coated	
Motor type	Brushless DC motor	
Max. stirring quantity [H₂O, L]	20	
Max. stirring bar [L x Ф, mm]	55*10	
Motor rating input [W]	30	
Motor rating output [W]	20	
Speed range[rpm]	50-1500	
Speed display	Scale	
Heating output [W]	600	
Heating temperature range	Room temp310°C	
Temperature display	Scale	
Temperature display accuracy	/	
Safety temperature [°C]	50-325	
External temperature sensor	/	
Control accuracy with external temperature sensor PT1000[°C]		
Hot surface warning	50°C	
Permissible ambient temperature [°C]	5 - 40	
Permissible relative humidity	80%	
Protection class according to DIN EN 60529	IP 42	
Voltage [VAC]	200-240/100-120	
Frequency [Hz]	50/60	
Power [W]	650	
Dimensions [W x D x H, mm]	159 x 253.5 x 93	
Weight [kg]	2.7	







Stirring — 10-position Magnetic Hotplate Stirrer

- 10 positions supports synchronous heating and stirring
- Wear free magnetic coils and the magnetic coil technology provides noiseless and consistent stirring on all positions
- The max. heating temperature is 120°C and the sample temperature can be up to 70°C at maximum
- The max. speed is 1200rpm and the increment is 10rpm
- Economic mode can have the work plate automatic heating at low temperature
- Stainless steel with silicone work plate is skid-resistant and allows excellent heating uniformity
- Comes with Reverse Rotation option









TIRRING

Model	MS310
Stirring position	10
Work plate material	Stainless steel with silicone
Work plate dimension [L x W, mm]	470×205
Driving mode	Electromagnetic drive
Max. stirring quantity [L]	0.4 x 10
Heating temperature [°C]	Room temp 120
Safety temperature [°C]	150
Speed range [rpm]	0-1200
Speed increment [rpm]	10
Stirring position distance [mm]	93
Max. magnetic bar length [mm]	30
Speed display	LED
Time display	LED
Economic mode	Yes
Adjustable Reverse rotation	Yes
Operation type	Continuous / timed operation
Time range	0-99h59min
Voltage [VAC]	100-120/200-240
Frequency [Hz]	50/60
Heating Power [W]	500
Power [W]	580
Permissible ambient temperature [°C]	5-40
Permissible relative humidity	80%
Protection class	IP30
Dimension [L x W x H, mm]	630x210x70
Weight [kg]	10



STIRRING

Stirring — 5" Glass Top Magnetic Stirrer

FEATURES

- Max stirring quantity (H₂O) is 5000mL
- Wide speed range from 50 to 1500rpm
- Touch key is more smart and user-friendly
- Wear-free running provides longer life time
- LED display offers easy reading of the speed and time
- Pioneering and patented design of electromagnetism-driven mechanism
- No risk of demagnetization of the permanent magnet as the traditional design
- Automatic reverse rotation every 30 seconds allows excellent mixing performance
- No concern about the mechanical wear and noise of the motor as the traditional design
- Tempered glass working plate is waterproof; strong acid and alkali resistant and very easy to clean



Model	MI0102011	Permissible ambient	
Set-up plate dimensions	5 Inch	temperature [°C]	5 - 40 °C
Set-up plate material	Tempered glass	Permissible relative humidity	80%
Stirring Mechanism	Electromagnetic Drive	Protection class	IP65
INIAN. Stiffing quantity Sobotife		according to DIN EN 60529	11 03
[H ₂ O]	(3000mL at 1500rpm)	Voltage [VAC]	100-240
Speed range	50-1500	Frequency [Hz]	50/60
Speed display	LED	Power [W]	25
Time display	LED	Dimensions	172x247x30mm
Time range	0-99H99Min	Weight [kg]	1.627

Stirring —— Ultra flat Mini Magnetic Stirrer

FEATURES

- Speed range of 15-1500rpm
- Max stirring quantity [H₂O] of 1000mL
- Touch key is more user-friendly and durable
- OLED display provides easy reading of the speed and time
- Automatic reverse rotation every 30 seconds provides excellent mixing performance
- The most advanced magnetic coil technology allows for wear-free drive without moving parts
- Special black tempered glass set-up plate is waterproof, shatterproof; very easy to clean and dissipates heat



Model	MI0102001D	Set-up surface [mm]	Ф100
Stirring positions	1	Permissible ambient	5-40
Working plate material	Tempered glass	temperature[°C]	
Speed range [rpm]	15-1500	Permissible relative humidity	80%
Display	OLED	DIN EN60529 protection class	IP65
Max. stirring quantity [H₂O]	1000ml	Voltage [VAC]	100-240
Time range	0-99H99Min	Frequency [Hz]	50/60
Motor rating input [W]	5	Input power [W]	6
Motor rating output [W]	3	Dimension [W x D x H, mm]	117 x 12 x 180
Max. stirring bar [mm]	25	Weight [kg]	0.3

STIRRING

Stirring — Mini Magnetic Stirrer

FEATURES

- Speed range of 15-1500rpm
- Slip-proof and stable stand
- High IP protection class (IP65)
- Automatic reverse rotation for excellent mixing performance
- Set-up plate and casing are made from chemically resistant materials



Model	MI0102001	Overvoltage category	
Rated voltage	100-240VAC	EN 60529 protection class	IP65
Rated frequency	50-60Hz	Ambient humidity (relative)	80%
Output voltage [VDC]	12	Ambient temperature	5-40°C
Output power [W]	Min.3	Transport temperature	-25°C to +70°C
Stirring mechanism	coil drive	Storage temperature	-10°C to +70°C
Speed range [rpm]	15-1500	Material	Front membrane sheet Polyester
Stirred quantity (max)	800mL	Weight	0.35kg
Operating time	100%	Installed weight (max)	2kg
Protection class	II	Set-up surface	Ф100mm
Pollution degree	2	Dimensions (W x D x H)	115x175x12mm

Stirring — 5" Led Digital Magnetic Stirrer

FEATURES

- Digital process timer allows for unsupervised operation and can be set from 1min to 99h59min
- Stainless Steel with ceramic coated working plate is chemical-resistant and scratch-resistant
- Brushless DC motor is maintenance-free and explosion-proof
- 3D digital wheel adjustment of speed and temperature
- LED digital display for easy setting and reading
- Speed range is 50-1500rpm







SPECIFICATIONS		
Model	MI0102008	
Stirring positions	111	
Set-up plate dimensions [mm]	Ø 137	
Set-up plate material	Stainless steel with ceramic coated	
Motor type	Brushless DC motor	
Max. stirring quantity [H ₂ O, L]	I T E 20	
Max. stirring bar [L x Φ , mm]	55*10	
Motor rating input [W]	30	
Motor rating output [W]	20	
Speed range [rpm]	50-1500	
Speed display	LED	
Time display	LED	
Time range	1min - 99h59min	
Permissible ambient temperature [°C]	5-40	
Permissible relative humidity	80%	
Protection class according to DIN EN 60529	IP 42	
Voltage [VAC]	200-240/100-120	
Frequency [Hz]	50/60	
Power [W]	40	
Dimensions [W x D x H, mm]	159 x 253.5 x 93	
Weight [kg]	2.7	

Stirring — Overhead Stirrer (20L / 40L / 50L)

- Compact, Lightweight and Sleek design
- Speed Range: 50rpm~2000rpm
- Provides constant speed even with changes in viscosities of the sample
- Wide LED display for precise speed adjustment and monitoring
- LED display shows actual and set speeds alternately
- Overload protection system if the torque exceeds the stirrer ratings
- Safety circuits: Circuit auto cut-off feature for additional protection
- Maintenance-free Brushless DC motor
- The through-shaft housing design allows for easy impeller height adjustments and thereby less downtime in between sample changes



3F ECIFICATIONS			
Model	OHS-20D	OHS-40D	OHS-60D
Voltage [V]	100 V-240V	100 V-240V	100 V-240V
Frequency [Hz]	50/60	50/60	50/60
Max.output power [W]	60	110	160
Speed range under nominal load [rpm]	0/50-2000	0/50-2000	0/50-2000
Speed increment [rpm]	Stepless, 10rpm	Stepless, 10rpm	Stepless, 10rpm
Speed accuracy	±1%	±1%	±1%
Max. torque at stirrer shaft [N.cm]	20	40	60
Max. stirring quantity (H₂O)	20L	40L	50L
Max. Viscosity [mPas]	10,000	50,000	50,000(2000rpm)
			100,000(1000rpm)
Speed display	LED	LED	LED
Protection class according to DIN EN 60529	IP42	IP42	IP42
Protection at overload	Yes	Yes	Yes
Motor protection	Yes	Yes	Yes
Over temperature protection	Yes	Yes	Yes
Permissible ambient temperature	5-40°C	5-40°C	5-40°C
Permissible relative humidity	80%	80%	80%
Clamping chuck-clamping range	0.5-10mm	0.5-10mm	0.5-10mm
Dimensions (WxDxH)	71x174x240	71x174x240	71x174x240
(without extension arm) [mm]			
Weight (with extension arm and	2.3	2.5	2.5
clamping chuck) [kg]			



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	00

CENTRIFUGAL STIRRER OHS-20D-0101 Shaft length: 35cm Shaft diameter: 0.6cm

Stirrer diameter: 8 8cm



STRAIGHT STIRRER OHS-20D-0102 Shaft length: 35cm Shaft diameter: 0.6cm Stirrer diameter: 6.7cm



4-BLADED STRAIGHT STIRRER OHS-20D-0103 Shaft length: 35cm Shaft diameter: 0.6cm Stirrer diameter: 6.4cm

Stirrer diameter: 5.6cm

3-BLADED PROPELLER STIRRER OHS-20D-0104 Shaft length: 35cm Shaft diameter: 0.8cm



4-BLADED PROPELLER STIRRER OHS-20D-0105 Shaft length: 35cm Shaft diameter: 0.8cm Stirrer diameter: 6cm



PADDI F STIRRER OHS-20D-0106 Shaft length: 35cm Shaft diameter: 0.6cm Stirrer diameter: 6.7cm

304 STAINLESS STEEL STIRRER



ANCHOR STIRRER OHS-20D-0201 Shaft length: 35cm Shaft diameter: 0.8cm

Stirrer diameter: 5cm 3-BLADED PROPELLER STIRRER OHS-20D-0203 Shaft length: 35cm

CENTRIFUGAL STIRRER OHS-20D-0202 Shaft length: 35cm Shaft diameter: 0.8cm Stirrer diameter: 9cm



DISSOLVER STIRRER OHS-20D-0204 Shaft length: 35cm Shaft diameter: 0.8cm Stirrer diameter: 6cm

Shaft diameter: 0.8cm

Stirrer diameter: 5cm

4-BLADED STIRRER OHS-20D-02-008 Shaft length: 35cm Shaft diameter: 0.8cm Stirrer diameter: 5cm

OTHER ACCESSORIES



UNIVERSAL PLATE STAND OHS-ST Material: 304 stainless steel

Dimensions[W \times D \times H]: 32 x 20 x 80 cm



CHUCK WITH KEY OHS-MC Material: 304 stainless steel Clamping range: 0.5-10 mm



CHUCK BY HAND OHS-HC Material: plastic + 304 stainless steel Clamping range: 0.5-10 mm



STRAP CLAMP FOR FIXING VESSEL OHS-CT Material: 304 stainless steel Vessel clamping range:

80-180 mm



High-speed Refrigerated Centrifuge

The CF321 HIGH-SPEED REFRIGERATED CENTRIFUGE features state of the art cooling technology which ensures high temperature accuracy and provides rapid cooling for temperature sensitive samples. The ergonomically designed device comes with a 5-inch touchscreen and an intuitive user interface.

The centrifuge has a maximum capacity of 12 x 5mL and reaches a maximum speed of $21,300 \times g$ (15,000 rpm).



- Multiple rotors suited for various applications: 24×1.5/2.0 mL tubes, 18×1.5/2.0mL tubes for spin columns, 12x5mL tubes, 4×8×0.2mL PCR strips/tubes (for 4×0.2 mL PCR strips or 32×0.2mL PCR tubes)
- Maximum Relative Centrifugal Force (RCF) is up to 21,300 × g (15,000 rpm)
- The standard rotor comes with aerosol-tight lid that ensures safe handling of hazardous samples.
- Double lock lid design offers improved safety, and the lid can be easily closed with light pressure.
- A 5-inch, high resolution touch screen with wide viewing angle and an intuitive user interface provides excellent user experience.
- Streamlined bar-shaped indicator light changes color or flashes to indicate working status, warning, and alarms
- With wide temperature control range: -10°C to +40°C
- With a fast pre-cooling time (Room Temperature to 4°C in only 8 minutes), the centrifuge is ready for use in a very short time.
- Ensures reliable cooling at 4°C, even at maximum rotor speed.
- Built-in condensate tank to prevent the accumulation of condensate in the rotor chamber.

SPECIFICATIONS			
Model	CF321		
Name	High-speed refrigerated centrifuge		
Display	5-inch touch screen		
Speed Range (RPM)	300 to 15,000 rpm; increment: 100rpm		
Max. RCF	21,300 × g (15,000 rpm)		
	24×1.5/2.0mL tubes,		
Rotor Capacity	18×1.5/2.0mL tubes for spin columns,		
	12×5mL tubes, 4×8×0.2mL PCR strips/tubes		
Time Setting Range	30s-99h59min, with continuous run function		
Motor Type	Brushless DC motor		
Power Supply	AC220-230V 50-60Hz		
Power (W)	600		
Dimensions (mm)	520× 305× 285		
Weight (kg)	30 kg		
Noise level (dB)	<60dB(A)		
Deceleration time	15 s		
Acceleration time	16 s		
Cooling	Refrigerated		
Temperature control range	-10 °C to +40 °C		
Maximum speed temperature control	4 °C (continuous)		
Pre-cooling Time (from Room Temperature)	≤5 minutes from RT (~ 21°C) to 4°C		
SOFT brake function	Yes		
Condensate drain function	Built-in condensate tank		

Standard	Optional		
00			000
24×1.5/2.0mL	18×1.5/2.0mL	12×5mL	4×8×0.2mL

SEPARATION

High-speed Micro Centrifuge

CF221 HIGH-SPEED MICRO CENTRIFUGE is a versatile laboratory instrument designed for rapid separation and extraction of components from mixtures of liquids and solids. It is applicable for 24x1.5/2.0mL tubes, with the maximum speed of 15,000rpm. By utilizing centrifugal force, it effectively separates particles based on their density, enabling efficient sample processing in various fields, including life sciences, biology, medical research, pharmaceuticals, geology, agriculture, forestry, petrochemicals, light industry, and metal particles analysis, etc.

- Maximum centrifugal force (RCF) reaches up to 21,300xg
- Large TFT touchscreen with an intuitive user interface for easy operation
- Motor-driven lock lid design enhances safety, enabling easy lid closure with gentle pressure
- Silent operation promotes a safe, stress-free environment
- Multiple protection function, over speed protection, system protection and lid locking protection
- Remarkable versatility with 3 different rotors: 24x1.5/2.0mL tubes, 12x5mL tubes, 8x4x0.2mL PCR strips/tubes (for 4x0.2mL PCR strips or 32x0.2mL PCR tubes)
- The rotor chamber is made of fully enclosed steel structure, ensuring safe centrifugation





Standard	Opti	onal
000		000
24×1.5/2.0mL	12×5mL	4×8×0.2mL

Centrifuges —— High-speed Micro Centrifuge

- Brushless DC motor
- PULSE offers quick spins
- High speed accuracy of ±20rpm
- Large LED display for easy reading
- Fast acceleration and braking system
- Automatic lid open upon running completion
- Timer starts when the unit reaches the set speed
- Dedicated 3D digital wheels to adjust speed and time
- Programmable operation can store up to 10 programs
- Motor-driven lid locking system for safety and reliability
- Heavy base eliminates vibration and movement when running
- Powerful centrifugal force of 15100 x g and Max. speed of 15000rpm
- Unique air flow system, keeps samples cool
- Rotor capacity: 1.5/2.0/0.2/0.5mL X 12





SPECIFICATIONS		
Model	CF0201002	
Speed range [rpm]	500-15000rpm, increment: 100rpm	
Max. RCF [x g]	15100, increment: 100	
Speed accuracy [rpm]	±20	
Rotor capacity	0.2ml/0.5ml/1.5ml/ 2ml×12	
Time range	Timed operation:30s-99m Continuous operation	
Motor	Brushless DC motor	
	Door interlock, Over-speed detection;	
Safety devices	Over-temperature detection; Automatic self-diagnostics	
Power	Single-phase, AC110V-240V, 50Hz/60Hz, 3A	
Noise level [dB]	≤56	
Acceleration/Braking time[Sec]	30s110s↓	
Dimensions [mm]	256 x 225 x 155	
Weight [kg]	6	
Additional features	Speed/RCF switch; Short-time run function; sound-alert function	

Centrifuges —— Mini Centrifuge

- Low noise ≤50dB
- Fixed speed of 5400rpm
- Click-on design allows for very easy rotor change without tools
- Low operation voltage and door open braking system
- Equipped with 2 interchangeable rotors of 1.5/2mL x 6 and PCR 8 x 2
- Enclosed design reduces the risk of liquid splashing into the equipment
- Excellent dynamic balance keeps stable running even if the rotor is unbalanced on two sides



Model	CF0201001	Rotor capacity 0.2mL :	0.2/0.5/1.0/1.5/2.0mL x 6
Max. Speed[rpm]	5400		0.2mL x 16 PCR tubes
Max. RCF[xg]	2000		0.2mL x 2 PCR 8-tube
Input	100-240VAC, 50/60HZ		strips
Output	24VDC, 2A	Noise level [dB]	≤50
Run time	Continuous operation	Dimension	6.9" x 5.5"
Driving motor	DC motor	Weight [kg]	1.85

Centrifuges —— Clinical Centrifuge

FEATURES

- Micro-computer control gives high speed control accuracy and excellent centrifugation performance
- Brushless DC motor is maintenance-free and provides rapid acceleration and deceleration
- Rotor is made of tough, high-strength flame retardant material and is impact resistant, wear resistant and chemical resistant.
- Large LED display can show the running process and the error warning
- Independent digital wheels adjust the speed and time
- Two operation modes are available; timed operation of 30s-99min and continuous operation
- Run parameters can be adjusted after the set speed is reached

• The door interlock design makes the door open automatically after a beep when the run is completed, which can prevent samples overheating

 Performs self-diagnostics every time the device is turned on, and also displays the accumulated running time together with parameters of the last run.

 Excellent dynamic balance ensures quiet and stable running

The short spin function is used for quick
 spins by pressing and holding PULSE key







Model	CF0202003
Speed range [rpm]	300-4500, increment: 100
Max. RCF [x g]	2500
Speed accuracy [rpm]	±45
Rotor capacity	10mL/7mL/5mLx12; 15mLx6
Time range	Timed operation: 30s-99min; Continuous operation
Motor	Brushless DC motor
Safety devices	Door interlock; Over-speed detection;
	Automatic self-diagnostics
Power	Single-phase, AC110V-240V, 50Hz/60Hz, 2.5A
Acceleration/Braking time[Sec]	20s↑ 15s↓
Dimensions [mm]	460 x 310 x 270
Additional features	Speed/RCF switch; Short-time run function; sound-alert function

SEPARATION

Centrifuge —— Tubes

Centrifuge Tubes

- Available volumes: 5mL, 7mL, 10mL, 15mL, 50mL
- Conical Bottom tubes with Graduations in black, and large labelling areas
- Non-Pyrogenic, DNase/RNase free, and Sterile
- Can withstand a wide temperature range from -80°C to 120°C
- No deformation after autoclave sterilization
- Maximum RCF: 12000×q



Snap-Lock Microcentrifuge Tubes

- Frosted cap surfaces and frosted sides for labeling
- Thin membrane in cap center allows easy access to sample by syringe needle
- Available volumes: 0.6mL, 1.5mL, 2.0mL
- Withstands up to 14,000×g
- Snaplock cap assures efficient seal
- RNase-/DNase-free, Non-Pyrogenic



Centrifuges —— Hematocrit Centrifuge

FEATURES

- 5 inch HD touch screen, with an intuitive user interface for setting and viewing parameters
- Fast and convenient operation compared to traditional keypad & knob control devices
- Microprocessor control, DC brushless motor for stable and low noise operation





Model CFG400101 Max Speed 12000 RPM Max RCF 14800×a Max Capacity 24 Capillary Tube Rotor Speed Accuracy ±30 rpm Time Setting Range 1s ~ 99 min 59s ec Noise ≤ 65dB (A) Power Supply AC 110V 60Hz / 220V 50Hz, 5A Optional Rotor 12 Capillary Tube Rotor Dimension (WxDxH) 320×370×235 (mm) Packing Dimension (WxDxH) 530×410×290 (mm) Net Weight 11 kg

Rotary Evaporators

The RV131 Rotary Evaporator has wide applications in chemical, pharmaceutical, and biotechnology industries, R&D labs, and for quality assurance. The Large LED display along with touch keys and an adjustable knob helps you easily set process parameters. The Double-layer vertical condenser with 1500cm² cooling surface provides efficient vapor collection and sample recovery.



- The touch keys and adjustable knob let you easily set the Rotation speed, heating temperature, operation time, and cycle times (clockwise and/or counterclockwise cycles).
- The device also comes with a mistouch prevention lock to avoid changes through accidental touch
- The adjustment knob can be turned fast or slow to change parameters rapidly or accurately.
- The 5L water-oil heating bath with heating temperature range of up to 180°C (oil)
- The device comes with a Brushless DC motor with rotation speeds ranging from 20 to 320 rpm
- Comes with PID temperature controller, overheat protection, dry-burning protection, and automatic power-off functions
- Double-layer vertical condenser with 1500cm² cooling surface for efficient vapor collection and sample recovery
- High elastic graphite filled PTFE seal and compression spring bring excellent sealing as well as high-temperature, corrosion, and abrasion resistances.
- Manual lift for precise positioning of the glassware; the lifting height ranges up to 180mm and the tilt angle range is 0-360° (evaporation flask can be positioned on the left or right side)
- Ejection mechanism ensures easy removal of evaporating flask

Model	RV131		
Maximum evaporation flask size	3L		
Input Voltage, Frequency	AC 100V-240V, 50/60Hz		
Motor Type	Brushless DC Motor		
Max. Input Power of - Main Unit	48W		
Heating Power	1300W		
Temperature Range	Room temp.+5°C~90°C (Water)		
	Room temp.+5°C~180°C (Oil)		
Control Accuracy	Water±1.5°C, Oil ±3°C		
Rotation Speed	20 – 320 RPM		
Speed Control/Increment	Stepless speed Control. Increment: 1RPM		
Clockwise and Anti-clockwise	Yes		
Rotation Time Interval	5-999 s		
Time Setting Range	1-999 min		
Tilt Angle of Evaporation flask	0-360°		
Lifting method	Manual		
Stroke Displacement	180mm		
Vacuum Degree	Max. 4mbar (3mmHg)		
Heating Bath Capacity	5L		
Display	LED		
[DIN_EN60529] Protection Class	IP42		
Overload Protection	Yes		
	When the temperature of PT1000 temperature		
Over-temperature Protection	sensor is 5°C more than the set temperature,		
	the heating automatically shuts off		
Permissible Ambient Temperature	re 5-40°C		
Permissible Relative Humility	80%		
Dimension (WxDxH)	Main Unit: 400x320x540mm		
	Heating Bath: 300x300x205mm		
Weight (without glassware)	Main Unit: 8.6KG; Heating Bath: 3KG		



Large LED display

Easily set and monitor process parameters

Touch keys and adjustable knob

Rotation speed, heating temperature, operation time, and cycle times control.

Mistouch prevention lock

Avoid changes through accidental touch

Double-layer vertical condenser with

1500cm² cooling surface For efficient vapor collection & sample recovery

Graphite filled PTFE seal and compression spring



Provides high-temperature, corrosion, and abrasion resistances.





Diaphragm Vacuum Pump

Vacuum Pump RVP01 features oil-free pumping, low noise level, high efficiency and long lifespan. It is an ideal laboratory equipment for vacuum filtration, vacuum distillation, rotary evaporation, vacuum drying, centrifugal acceleration, solid-phase extraction, and other application requiring chemical resistance.



- This highly efficient pump works without any medium like oil, and thus cause no pollution. Inlet Filters are installed to prevent contamination and ensure clean air.
- Advanced technology & materials are adopted for ideal vacuum degree and airflow rate.
- The machine will power off automatically when the pump temperature reaches 130°C. Such overheat protection can prevent motor from damage because of long-time operation.
- Made of nitrile rubber, the diaphragm is durable and anti-corrosive. The friction-free operation will not cause any heat or abrasion to the diaphragm.
- The automated cooling and exhaust system can work continuously around the clock.
- Adjustable pressure valve allows for easy control over vacuum degree.
- High-quality axletrees facilitate steady running and low noise.
- The pump and the components in contact with air are coated with PTFE, making the device resistant to chemical corrosion and extreme temperature between -190~260°C.
- It features compact size and light weight and is easy to maintain.
- The smooth instrument surface is free from accumulation of most impurities and particles.

Model	RVP01
Pumping speed	30 L / Min
Ultimate pressure vacuum	≥0.95Mpa 50mbar
Voltage rating	220 V / 110 V; 50 Hz / 60 Hz
Housing temperature in operation	< 55°C
Motor power	160 W
Inlet diameter	6 mm
Outlet	Silencer
Permissible ambient temperature	7-40 °C
Pump heads	2
Dimensions (L/W/H)	300 x 120 x 235 mm
Noise	< 60 db
Weight	9 kg
Diaphragm valve material	NBR

APPLICATION

- Laboratory use
- Medical and pharmaceutical analysis
- Chemical engineering
- Biochemical pharmaceutical
- Food inspection
 - Forensic science



Recirculating Chiller

Recirculating Chiller CH800 provides an economic and environmentally friendly cooling solution for many laboratory applications. With intelligent PID control, the device achieves excellent temperature stability and is suitable for a wide range of applications including cooling of rotary evaporators, reactor blocks, vapor barriers, or heat exchangers.

The chiller, also known as recirculating chiller, is a cooling device that provides a continuous supply of water at a constant temperature and pressure. It cools water through the cooling system, delivers cool water to the equipment required via pump to remove heat and flows back to the bath



- Fast cooling: Requires only 30 minutes to cool down from room temperature (25°C) to -20°C
- Wide temperature range: from -20°C to room temperature (ambient water temperature).
- Compact design suitable for laboratory benches and fume hoods
- PID control and advance proportional cooling provides excellent temperature stability.
- Stainless steel water bath with easily visible water level indicator
- Convenient liquid filling and draining, and overflow port protection for the tank.
- 4.3-inch LCD touchscreen for easy setting and monitoring
- Over-current protection for the cooling system to avoid compressor overload.
- Overheating protection for the bath, with audio alarm.
- Automatic recovery function after power outage; recovers previous operation parameters
- Uses Environmental-friendly refrigerant
- Comes with RS485 communication interface





APPLICATION

Chillers are used in laboratories and medical/research institutions for a variety of applications including:

- Analytical instrumentation: viscometer, Soxhlet extractor, electrophoresis.
- Equipment cooling: distillation system, concentrator, extractor, condensing reflux unit, etc.
- MRI machines, CT scanners, Radiation Therapy Machines
- Blood Cooling Systems, Biograph Systems,
- Linear Accelerator, lasers, ultrasonic crusher, continuous flow analyzer, etc.

SPECIFICATIONS	
Model	CH800
Working temperature range	-20°C RT
Cooling capacity (@20°C)	750W
Cooling capacity (@10°C)	650W
Cooling capacity (@0°C)	500W
Cooling capacity (@-10°C)	400W
Cooling capacity (@-20°C)	200W
Time to cool from RT (25°C) down to - 20°C	≤30min
Pump Flow Max.	22 L/min
Pump pressure Max.	1 bar
Bath volume	5 L (max storage 5.3L)
Temperature stability DIN 12876	±0.3 K
Temperature Display Accuracy	±0.3°C
Refrigerant	R290
Power supply	220 V/110 V; 50 Hz/60Hz
Wattage	Max 750W
Weight	≤35Kg
Dimension(WxDxH)	235×468×535 mm
Noise	<55db

TEMPERATURE CONTROL

Benchtop Heaters & Coolers
Water Baths
Contrast Media Warmer



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Benchtop Heaters & Coolers

Heat Cool Thermo Mixers

- Heat/Cool and Heat only Thermo Mixers
- Accurate Temperature control and excellent mixing performance
- Microprocessor control ensures superior temperature stability and uniformity
- Programmable Heating, Cooling, and Mixing Sequences
- Large LCD touchscreen for intuitive navigation and programming
- Durable, low-noise Brushless DC motor
- Interchangeable modules with automatic detection function
- Auto resumption after power failure
- Comes with a standard block module (block for 24 x 1.5mL tubes)



PN	Module	Photo	Capacity	Max. Temperature	Max. Speed
TMX2405	24x0.5ml		24x0.5ml tubes	100°C	2000rpm
TMX2420	24x2.0ml	THE PARTY OF THE P	24x2.0ml tubes	100°C	2000rpm
TMX2412	24x12mm	THE PARTY OF THE P	24x12mm tubes	100°C	2000rpm
TMX2415	24x1.5ml	THE PARTY	24x1.5ml tubes	100°C	2000rpm
TMX096	96-well PCR Plate		96-well PCR Plate	100°C	2000rpm
TMX0450	4x50ml		4x50ml tubes	100°C	1000rpm
ТМХМРВ	Microplate Block		Microplate deepwell plate	100°C	3000rpm
TMX384	384-well PCR plate	2	384-well PCR plates	100°C	3000rpm

SPECIFICATIONS			
Name	Heat Cool	Heat Only	Heat Cool
	Thermo Mixer	Thermo Mixer	Incubator
Model	TMX100C	TMX100	DBI100C
Туре	Heating/Cooling/Mixing	Heating/Mixing	Heating/Cooling
Speed Range	250 to 3000rpm	250 to 3000rpm	/
Mixing Orbit (Diameter)	3.0mm	3.0mm	/
Temperature Control Range	Ambient-15°C to 100°C	Ambient +5°C to 100°C	Ambient -15°C to 100°C
Recommended Ambient Temperature		10°C to 30°C	
Temperature Setting Range		0°C to 100°C	
Display	7-ir	nch Color Touchscr	een
Sample Capacity		0.1ml to 50ml	
Standard Module	1	.5ml x 24-Well Plat	е
Temperature Accuracy	±0.2°C at 20–40 °C ±0.5°C at < 20°C or > 40°C		
Temperature Uniformity	±0.5°C		
Temperature Stability	±0.5°C		
Temperature Resolution	0.1°C		
Heating Rate (4 options)	Full Power, 2°C/min.,	; 5°C/min., 2°C/min	., 1°C/min.
Cooling Rate (4 options)	1°C/min., 0.5°C/min.		Full Power, 2°C/min., 1°C/ min., 0.5°C/min.
Programs	Prog	rammable up to 5	Steps
Cycle Times	Up to 999 times		
Calibration	4 Calibration Points (10°C/40°C/70°C/95°C)		
Timer	0-99h 59min 59s		
Additional Features	Pre-Heating, Power Failure Recovery		
Output	300W (max.)		
Power Supply	110-220V AC, 50Hz/60Hz		
Weight (including standard module)	< 10kg	< 10kg	< 8kg
Dimension (L x W x H)	332 x 227 x 185mm (including standard module, without lid)		

Thermo Mixers

Our Thermo Mixer series includes Heat ONLY Thermo Mixer (MixerTH) and Heat-Cool Thermo Mixer (MixerTCH). These devices offer accurate temperature control and excellent mixing performance. These devices are designed for a variety of molecular biology applications that require consistent and precise results, and are ideal for sample incubation, mixing and preservation.

MixerTH: Provides fast heating as well as accurate temperature control and uniformity

MixerTCH: Provides Flexibility by offering Mixing, Heating and Cooling in one device. Thermoelectric module offers fast heating and cooling

performance.	
SPECIFICATIONS Model MixerTCH MixerTH	

Model	MixerTCH	MixerTH
Temperature Control Range	RT-20°C~100°C	RT+5°C~100°C
Temperature Setting Range	0°C~100°C	RT+5°C~100°C
Temperature Accuracy	±0.3°C	±0.3°C
Temperature Stability @40°C	±0.3°C	±0.3°C
Temperature Stability @100°C	±0.3°C	±0.3°C
Display Accuracy	0.1°C	0.1°C
Speed Range	300~1500Rpm	300~2000Rpm
Amplitude	2mm(Horizontal rotation)	2mm(Horizontal rotation)
Timer	0~99h59m	0~99h59m
Heating Up Rate	<15min(25°C~100°C)	<15min(25°C~100°C)
Cool Down Time	≤25 min (RT to RT-20°C)	/
Cooling Down Rate	≥7°C/min (100°C to 20°C)	/
Max. Power	150W	180W
Dimension (W×D×H)	220x300x170 (mm)	220x300x170 (mm)
Weight	8.8kg	7.9 kg

TEMPERATURE CONTRO

BLOCK LIST

Model		Capacity	Max Temperature	Max. speed
Y1		96x0.2ml PCR plate	100°C	1500/2000rpm
Y2		54x0.5ml tubes	100°C	1500/2000rpm
Y3		35x1.5ml tubes	100°C	1500/2000rpm
Y4		35x2.0ml tubes	100°C	1500/2000rpm
Y5		20×0.5ml+15×1.5ml tubes	100°C	1500/2000rpm
Y6		24×φ12mm tubes	100°C	1500/2000rpm
Y7		32×0.2ml+25×1.5ml tubes	100°C	1500/2000rpn
Y8		32×0.2ml+10×0.5ml+15×1.5ml tubes	100°C	1500/2000rpm
Y8-2		32×0.2ml+10×0.5ml+15×2.0ml tubes	100°C	1500/2000rpm
Y9		103×67×30 tank	100°C	1500/2000rpm
Y10		96×0.2ml Elisa(Flat bottom)	F 100°C	1500/2000rpm
Y11		24×5ml tubes	100°C	1500/2000rpm
Y12		12×15ml tubes	100°C	700rpm
Y13	The state of the s	6×50ml tubes	100°C	700rpm
Y14		Customized	100°C	

OPTIONAL BLOCK LIDS

OF FIGURE BLOCK EIDS				
Model	SL-A	SL-B	SL-C	
Suitable for block type	Y1-Y9	Y10-Y11	Y12-Y13	

Dry Bath Incubators

Mini Dry Bath Incubator / with Heating Lid



- Temperature is up to 100°C
- LED display for easy reading
- Various applications with different blocks
- High temperature precision is up to ± 0.5°C
- Programmable operation can store up to 5 programs
- 3D digital wheel adjustment of time and temperature
- Simultaneous display of set /actual time and temperature
- Low operation voltage (12v) can work with a car charger

SPECIFICATIONS

TC0401005	TC0401006
RT + 5°C~100°C	RT + 5°C~100°C
0~99h59min	0~99h59min
±0.5	±0.5
±0.1	±0.1
≤15min	≤15min
/	√
164 x 116 x 98	164 x 116 x 98
0.9kg	0.9kg
	RT + 5°C~100°C 0~99h59min ±0.5 ±0.1 ≤15min / 164 x 116 x 98

ACCESSORIES



24 x 0.5ml block



TC0401005-31 40 x 0.2ml block



15 x 1.5ml block





8-12.5x12.5x32mm (For Cuvettes)





Dry Bath Incubators

Dry Bath Incubator (Single Block / Two Blocks / Four Blocks)



- Error code display
- Fixed safety circuit
- LED display for easy reading
- Adjustable temperature is up to 150°C
- Various applications with different blocks
- High temperature stability is up to ± 0.5°C
- Adjustable timing range of 1min to 99h59min
- 3D digital wheel adjustment of time and temperature
- Automatic calibration with external PT1000 temperature sensor
- Machined aluminum heating unit allows for highly precise control of temperature
- Included PT1000 temperature sensor allows temperature control directly in the sample vessel



Model	TC0401001	TC0401002	TC0401003
Number of blocks	1	2	4
Heat output [W]	165	250	430
Heating temperature range [°C]	RT+5°C to 150°C	RT+5°C to 150°C	RT+5°C to 150°C
Temperature display	LED	LED	LED
Adjustment and display resolution [K]	0.1	0.1	0.1
Temperature stability within the blocks at 37°C	±0.5°C	±0.5°C	±0.5°C
Temperature stability within the blocks at 60°C	±0.5°C	±0.5°C	±0.5°C
Temperature uniformity at 37°C	±0.5°C	±0.5°C	±0.5°C
Set-up plate material	Aluminium alloy	Aluminium alloy	Aluminium alloy
Set-up plate dimensions [mm]	96x76	96x152	96x304
Fixed safety circuit [°C]	180	180	180
Timer	√	√	√
Time setting range	1min - 99h59min	1min - 99h59min	1min - 99h59min
Dimensions (W x H x D)	152 x 86 x 190mm	152 x 86 x 300	152 x 86 x 465
Weight [kg]	1.5	2.5	7.5
Permissible ambient temperature	5 - 40 °C	5 - 40	5 - 40
Permissible relative humidity	80%	80%	80%
Protection class according to DIN EN 60529	IP 21	IP 21	IP 21
Voltage	200-240/115	200-240/115	200-240/115
Frequency	50/60 Hz	50/60	50/60



ACCESSORIES

Part No.	Description
TC0401001-35	single block, Eppendorf tubes, 20 x 1.5mL, Φ11.5mm x 36.9mm
TC0401001-54	single block, Conical tubes, 12 x 15ml, Φ17.1mm x 44.5mm
TC0401001-55	single block, vials, 6 x 50ml Φ29.0 x 47.6mm
TC0401001-60	single block, PCR tube, 30 x 0.5mL, Φ7.9mm x 27.6mm
TC0401001-61	single block, microtube combination, 6/10/5 x 0.5/1.5/2ml
TC0401001-62	single block, Microtubes, 20 x 1.5mL, Φ11.1mm x 39.1mm
TC0401001-63	single block, Conical tubes, 20 x 2.0ml, Φ11.5mm x 38.1mm
TC0401001-64	single block, Corning tubes, 20 x 2.0ml, Φ10.9mm x 38.1mm
TC0401001-66	single block, centifuge tube combinat ion, 4/3/2 x 1.5/15/50ml
TC0401001-67	single block, Round tubes, 30 x 6mm, Φ8.3mm x 48.4mm
TC0401001-68	single block, Round tubes, 24 x 10mm, Φ10.7mm x 48.4mm
TC0401001-69	single block, Round tubes, 16 x 12/13mm, Φ13.9mm x 48.4mm
TC0401001-70	single block, Round tubes, 20 x 12/13mm, Φ13.9mm x 48.4mm
TC0401001-71	single block, Round tubes, 12 x 15/16mm, Φ17.5mm x 48.4mm
TC0401001-72	single block, Round tubes, 8 x 20mm, Φ21mm x 48.4mm
TC0401001-73	single block, Round tubes, 6 x 25mm, Φ26.2mm x 48.4mm
TC0401001-74	single block, Round tubes, 4 x 35mm, Φ35mm-x 47.6mm
TC0401001-75	single block, Round tubes, 12 x 17/18mm, Φ19.1mm x 48,4mm
TC0401001-76	single block, vials, 20 x 12mm, Φ12.7mm x 30mm
TC0401001-77	single block, vials, 20 x 15mm, Φ15.8mm x 35mm
TC0401001-78	single block, vials, 12 x 17mm, Φ17.8mm x 45mm
TC0401001-79	single block, vials, 12 x 19mm, Φ19.7mm x 45mm
TC0401001-80	single block, vials, 9 x 21mm, Φ21.7mm x 45mm
TC0401001-81	single block, vials, 8 x 23mm, Φ23.8mm x 45mm
TC0401001-82	single block, vials, 8 x 25mm, Φ25.8mm x 45mm
TC0401001-83	single block, vials, 6 x 28mm, Φ28.8mm x 45mm
TC0401001-84	single block, vials, 15 x 16mm, Φ16.4mm x 45mm
TC0401001-85	single block, 10x8 PCR tube st rips, 0.2ml tubes
TC0401001-86	single block, 64 PCR t ube strips, 0.2ml tubes
TC0401001-88	single block, 2x6 cuvettes, 12.5mm
TC0401001-89	Single block, 0.2mL x 96-well centrifuge tubes
TC0401001-91	single block, Round tubes, 20x2.0mL, Φ11.5mm x 38.1mm
TC0401001-99	Thermal Transfer Basket for use with Thermal Beads (DBIB00121)
DBIB00120	Aluminum Thermal Beads (Dia 2mm, length 2~3.5mm)

WATER BATHS —— 24L / 13L / 5L / 2L

These precision heating devices are microprocessor controlled with a sleek glass touch panel interface, and a bright modern digital display. The basin manufactured from a single piece of durable stainless-steel that is resistant to corrosion and easily cleanable. Available in many sizes with 3 programmable setpoints and timing capabilities. Water baths have multiple built in safety



- Precise temperature control
- Frecise temperature control
- User-friendly glass panel touch interface
- Dry-start protection feature for improved safety
- Over-temperature cut-off & alarm to protect samples from over heating
- Programmable modes can store up to 3 programs
- Durable stainless-steel chamber
- Timed operation capable
- Easy to switch temperature unit between fahrenheit (°F) and celcius (°C)
- The 2L Stainless Steel Bath (WBT200102) comes with a Bead Bath Mode (Dry Mode)

TEMPERATURE CONTRO

WATER BATHS —— 24L / 13L / 5L / 2L

SPECIFICATIONS

Model	WB401	WB301
Reservoir Capacity	24 L	13 L
Heating temperature range	RT+5°C to 99.9°C	RT+5°C to 99.9°C
Permissible ambient temperature	10-35°C	10-35°C
Over temperature cut-off	Yes	Yes
Dry-start protection	Yes	Yes
Temperature stability	±0.3 °C	±0.3 °C
Display resolution	0.1 °C	0.1 °C
Temperature uniformity	±0.3 °C	±0.5°C
Display	LED	LED
Time setting range	0~99H59min	0~99H59min
Chamber dimensions (W x D x H)	500 x 300 x 200mm /	300 x 240 x 200mm /
Chambel differsions (VV X D X 11)	19.7 x 11.8 x 7.9in	11.8 x 9.4 x 7.9in
Dimensions (W x D x H)	550 x 415 x 427mm /	340 x 348x 427mm /
(incl. cover)	21.7 x 16.3 x16.8in	13.4 x 13.7 x 16.8in
Weight	14.5kg / 32.0lbs	7.3kg / 16.1lbs
Power Supply	100-120V 60Hz /	200-240V 50Hz
Power	1200W	1000W

Stainless Steel Body Variant

Model	WBT200224	WBT200213
Power Supply	100-120VAC, 50/60Hz	100-120VAC, 50/60Hz
Additional Features	N/A	N/A
Accessories	N/A	N/A

WATER BATHS —— 24L / 13L / 5L / 2L

SPECIFICATIONS

Model	WB201	WB101
Reservoir Capacity	5L	2L
Heating temperature range	RT+5°C to 99°C	RT+5°C to 99°C
Permissible ambient temperature	10-35°C	10-35°C
Over temperature cut-off	Yes	Yes
Dry-start protection	Yes	Yes
Temperature stability	±0.5°C	±0.5°C
Display resolution	0.1°C	0.1°C
Temperature uniformity	±0.5°C	±0.5°C
Display	LED 1	LED
Time setting range	1 <mark>-</mark> 999min	1-999min
Chamber dimensions (W x D x H)	150 x 300 x 150mm / 5.9 x 11.8 x 5.9in	150 x 138 x 150mm / 5.9 x 5.4 x 5.9in
Dimensions (W x D x H)	188 x 394 x 285mm /	188 x 232 x 285mm /
(incl. cover)	7.4 x 15.5 x 11.2in	7.4 x 9.1 x 11.2in
Weight	4.5kg / 9.9lbs	3.0kg / 6.6lbs
Power Supply	100-120V 60Hz / 200-240V 50Hz	
Power	450W	200W

Stainless Steel Body Variant

Model	WBT200205	WBT200102
Power Supply	100-120VAC, 50/60Hz	100-120VAC, 50/60Hz
Additional Features	N/A	Bead Bath Mode
Accessories	N/A	DBIB00120 -Aluminum Thermal Beads

TEMPERATURE CONTRO

CONTRAST MEDIA WARMER

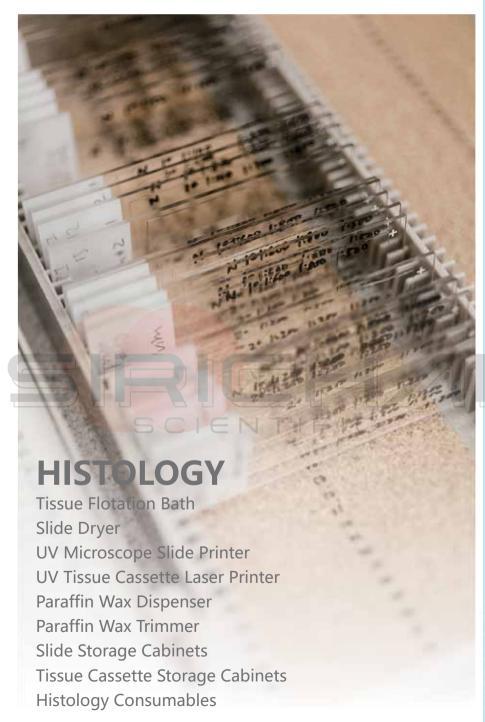
Locking Incubator

- The casing of the instrument is made of high quality cold-rolled steel plates, with the steel surface sprayed with anti-corrosion coating.
- The interior is also made of high quality cold-rolled steel plates, sprayed with anti-corrosion coating.
- An insulated, double-pane window is located at the center of the door, which allows for convenient viewing into the interior.
- The door has a magnetic rubber seal to ensure a tight seal.
- The instrument has an intelligent temperature control that includes a PID control program, digital display, push buttons, and timer functions.
- The instrument uses an electronic lock with touch switch keys for locking and unlocking the door handle.
- There is an airflow vent located on the top side of the instrument.





SPECIFICATIONS			
Model	CMW100101	CMW100102	CMW100103
Temperature range	RT +5°C - 65°C	RT +5°C - 80°C	RT +5°C - 80°C
Temperature Control Method	F	PID Digital Controller	-
Volume	18L	30L	65L
Temperature Fluctuation	±0.5°C	±0.2°C	±0.2°C
Temperature Resolution		0.1°C	
Temperature Uniformity		±2.0°C	
Heating Element	Nickel Alloy heating coil	Tubular Hea	ating Element
Rated Power	180W	150W	500kW
Door lock	Digital Keypad Lock		
Timer	0~9999 minutes		
Sensor		PT100	
Inner Chamber Size	260x260x260	310×310×310	400×360×450
(W*D*H mm)	200x200x200	310×310×310	400×300×430
External Size	440 440 620	460×510×695	550×550×840
(W*D*H mm)	410x410x620		
Shelf Load	15kg	39kg	46kg
Shelf Layers	6 positions. 2 shelves included		
Exterior Materials	Cold-Rolled Epoxy Painted Steel		
of Construction			i steel
Interior Materials	Stainless Steel Walls and Shelving		
of Construction			
Voltage	AC120V/60Hz		
Additional Features	Deviation Alarm. Power Failure Safety. Overheat Prevention		



HISTOLOGY — Tissue Flotation Bath

FEATURES

- Deep Dish Model: the extra depth helps lift the sections out of the bath easily.
- High-definition touch screen and user-friendly interface for intuitive operation.
- Microprocessor controlled device with precise temperature performance that can keep the temperature accuracy within 1°C.
- Advanced safety over-temperature protection that shuts off the devices when the temperature is over 70°C.
- A nonvolatile memory retains the last temperature set point after powering off.
- Timer and alarm reminder.
- Auto turn-on/ turn-off function eliminates wait time.

 High temperature resistant large capacity glass basin with low-voltage LED lighting at the bottom

	Ottor
SC	ENTIFIE
CIFICATIONS	
Model	TFB200101
Temperature setting range	Ambient to 60°C
Voltage	AC120V±10%, 60Hz±1Hz
Power	200W
D' ' (Ida Mid I)	327mm*340mm*166mm
Dimensions(L*W*H)	210mm*168mm*55mm (glass basin)
Relative humidity	≤80%
Suitable ambient temperature	5°C~30°C
Temperature accuracy	±1°C
Heating time	20 minutes to heat up to 54°C
Dish Material	Heat-resistant glass
Drying and orienting blocks	Accommodate 8 slides
Drying Block material	Steel with PTFE coating

HISTOLOGY —— Slide Dryer

- 56 slide capacity (conventional slides): 7 blocks and 8 slides on each block.
- High-definition touch screen and user-friendly interface for intuitive operation.
- Microprocessor controlled device with precise temperature performance that can keep the temperature accuracy within 1°C.
- Advanced safety over-temperature protection that shuts off the devices when the temperature is over 70°C.
- A nonvolatile memory retains the last temperature set point even after powering off.
- Timer and alarm reminder.
- Auto turn-on/ turn-off function eliminates wait time.
- Angled slide placement area for ease of use.



HISTOLOGY — UV Microscope Slide Printer

The **UVP202001, Ultraviolet Laser Microscope Slide Printer**, represents the next generation of slide printers. This advanced and easy to use printer can print directly on slides without using ink or consumables. The ultra-fast laser can print text, symbols, and barcodes on slides in under three seconds. The large 10-inch color touch screen allows for configuration of the print template and easy data entry. The printer is LIMS and HIMS compatible for easy integration.



- Next generation Ultraviolet Laser Print Technology for quick and consumable-free printing
- Large 10-inch color touchscreen for data entry and print configuration
- Quick and quiet print capabilities with slides and cassettes being printed in under 3 seconds
- Removable feed and dispensing trays for optimizing lab workflows
- Built-in scanner for quick reading of barcodes and data entry
- Safety sensors to detect slide tray attachment and when the slide tray is filled
- Easily build and configure new print templates to suit your laboratory sample needs
- Connects to most LIMS and HIMS systems to print directly from the network
- Includes software for bulk importing of slide or cassette information for printing
- Designed to operate independently or in conjunction with Tissue Cassette Printer or Information Management System
- UV printing is not susceptible to smudging from solvents, the print is physically etched into the slide





Model	UVP202001
Input Voltage, Frequency	AC100V-240V, 50/60Hz
Laser Type	Long Life UltraViolet Printer
Slide Capacity	100 Slides
Interchangeable Slide Tray	Yes
Printing Capabilities	Text, Symbols, Barcodes, QR Code Multiple formats of Linear and 2D Barcodes
Print Speed	< 3 seconds
Display	10-inch color touch screen
Dispense Tray Safety Sensors	Yes
LIMS/HIMS Capable	Yes
Connects to Tissue Cassette Printer	Yes
Can Operate Independently	Yes
Batch Upload Software Included	Yes
Control System Type	Embedded
Built-in Scanner	Yes
Configurable Templates	Yes
Slide Dispense Trays	1 × Bulk Printing, 1 × Small Batch
Removable Slide Fill Tray	Yes
UV Printer Life	> 3 million slides
Air Purification System	Yes
Connection Types	2× Ethernet, 4 × USB, 1 × VGA, 1× COM, 1× HDMI
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	80%
Dimension (WxDxH)	437 × 200 × 445mm (17.2 x 7.9 x 17.5 in)
Weight	Main unit: 19kg / 42lbs

HISTOLOGY — UV Tissue Cassette Laser Printer

The UVP202002, Ultraviolet Laser Tissue Cassette Printer, represents the next generation of histology printers. This advanced and easy to use printer can print directly on cassettes



- Next generation Ultraviolet Laser Print Technology for quick and consumable-free printing
- Large 10-inch color touch screen for data entry and print configuration
- 6 Cassette loading hoppers that can store up to 100 pieces each for a total of 600 cassettes
- Quick and quiet print capabilities with cassettes being printed in under 3 seconds
- Cassettes can be dispensed individually or directly into the collection hopper.
- Built-in scanner for quick reading of barcodes and data entry
- Easily build and configure new print templates to suit your laboratory sample needs
- Connects to most LIMS and HIMS systems to print directly from the network
- Includes software for bulk importing of cassette information for printing
- Designed to operate independently or in conjunction with the Slide Printer or Information Management System
- UV printing is not susceptible to smudging from solvents, the print is physically etched into the cassette







SPECIFICATIONS		
Model	UVP202002	
Input Voltage, Frequency	AC100V-240V, 50/60Hz	
Laser Type	Long Life UltraViolet Printer	
Cassette Capacity	600 Cassettes (6 × 100 Cassette Hoppers)	
Selectable Cassette Hoppers	Yes	
Printing Capabilities	Text, Symbols, Barcodes, QR Code Multiple formats of Linear and 2D Barcodes	
Print Speed	<3 seconds	
Display	10-inch color touch screen	
Stand-Alone Operation Capable	Yes	
LIMS/HIMS Capable	Yes T E C	
Connects to Slide Printer	Yes	
Can Operate Independently	Yes	
Batch Upload Software Included	Yes	
Control System Type	Embedded	
Built-in Scanner	Yes	
Configurable Templates	Yes	
Cassette Collection Available	1 × Bulk Printing, 1× Small Batch 1 × Individual	
Automated Cassette Hopper Selection	Yes	
UV Printer Life	> 3 Million Cassettes	
Air Purification System	Yes	
Connection Types	2 × Ethernet, 4 × USB,1 × VGA, 1× COM, 1 × HDMI	
Permissible Ambient Temperature	5-40°C	
Permissible relative Humidity	80%	
Dimension (WxDxH)	447 x 313 x 509mm (17.6 x 12.3 x 20 in)	
Weight	Main unit: 34kg / 75lbs	

HISTOLOGY

Histology—— Paraffin Wax Dispenser

FEATURES

- LED Display shows timer and temperature status
- Automatic alarm activation if temperature exceeds the set value by 5 degrees
- Faucet heating intensity is adjustable by the knob located at the rear of the instrument to ensure continuous dispensing of wax without clogging
- PID temperature controller and temperature sensors provide precise temperature management
- Advanced bottom heating element for fast and uniform heating
- The memory and automatic restoration feature enable the automatic preservation of the set temperature following operation



Model	WXD100101
Temperature Range	Ambient to 100°C
Precision	±1°C
Tank capacity	10L
Voltage	AC 220V±10% 50Hz; AC110V±10% 60Hz
Power	1200W
Dimensions (W×D×H)	355×410×540mm (W×D×H)
Weight	17kg

Histology—— Paraffin Wax Trimmer

Paraffin wax trimmer provides an efficient solution for removing excess paraffin from tissue embedding cassettes, for enhanced slicing precision in a microtome. The device is designed to simplify wax disposal and prevent messy paraffin shavings. The heated, grooved surfaces allow quick and easy removal of extra paraffin allowing the melted wax to drain cleanly into a removable





- Continuously adjustable between room temperature and 99°C
- Reaches the set maximum temperature within 5 to 10 minutes, with a temperature accuracy of +1°C.
- The large working surface allows multiple tissue cassettes to be trimmed at a time
- Grooved surface for proper wax drainage
- Magnetically attached drip tray with disposable tray liners for easy maintenance
- Power failure recovery mode and over-temperature protection
- Supports continuous operation for up to 8 hours

Model	PWT100101
Temperature Range	RT+5°C to 99°C
Temperature Accuracy	1°C
Voltage	AC 110±10%, 60Hz; AC 220±10%, 50Hz
Power	250W
Weight	3.1 kg
Dimension (Lx Wx H)	350× 160 × 210 (mm)

HISTOLOGY

Histology — Slide Storage Cabinets

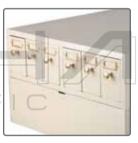
FEATURES

- Stacked 12 units high when filled with slides without any deformation and tipping
- Made of cold rolled steel with epoxy powder coating
- The interlocking system allows for safe stacking
- Hold up to 5,000 microscope slides per cabinet
- The color can be customized based on MOQ
- Plastic or brass knob can be available
- The base can be with or without legs
- 6 drawers per cabinet











Description	Dimension (mm, L x W x H)
Cabinet	477 x 402 x 126
Base without legs	477 x 402 x 124

Colors	Slide Storage Cabinet	Base without Legs
White	SSC100103	SSC200203
Tan	SSC100104	SSC200204

Histology— Tissue Cassette Storage Cabinets

The Tissue cassette storage cabinets offer modular storage solution for paraffin embedded tissue samples in Histology Labs. Each cabinet has 6 drawers and can hold 2,100 tissue cassettes, with individual drawer capacity of 350 cassettes. These cabinets are made of ABS and has interlocking system for safe stacking. Each drawer comes with sponge block spacers for keeping cassettes upright, and identification labels.

- Made of ABS
- 6 drawers per cabinet
- Hold up to 2,100 tissue cassettes per cabinet
- The interlocking system allows for safe stacking
- Can be stacked without any deformation and tipping
- The color can be customized based on MOO
- Shipped with sponge block spacers and identification label in each drawer







SI Len learnons		
	Cabinet Dimension	445 x 245 x 400 mm
	Capacity per drawer	350pcs of cassettes
	Capacity per cabinet	2100pcs of cassettes







Histology — Histology Consumables



Embedding Cassettes

Our cassette offerings feature 45° labeling surfaces, are available in 9 colors, and come in sleeved or taped packaging.

- Routine Cassettes
 - Strip holes, with reverse hinged, detachable lids
- Biopsy Cassettes

Fine square holes, with reverse hinged, detachable lids

• Processing Cassettes

Large round holes, with stainless steel covers sold separately



Microscope Slides

- Dimensions
 - 75x25mm, 1.0-1.2mm thick
- Features
- 45° clipped corners, ground edges
- Glass Types

Soda-lime or super white

Finishes

Plain, frosted, color-frosted, or silane-adhesive (color-frosted)



Cover Glasses

- Sizes
 - 18x18mm, 22x22mm, 24x50mm
- Thicknesses

No.1 (0.13-0.16mm) or No.1.5 (0.16-0.19mm)

• Glass Type

Soda-lime, super white, or borosilicate 3.3

LIFE SCIENCE TOOLS

SAMPLE PREPARATION

Extraction & Purification
NGS Library Preparation Workstation

AMPLIFICATION & QUANTIFICATION

PCR

qPCR

Integrated Gene Detection System

Mobile Lab (Lab-in-A-Box)

Microvolume Spectrophotometer (UV-Vis)

Microplate Reader

CELL BIOLOGY TOOLS

Cell Culture

CO₂ Incubator

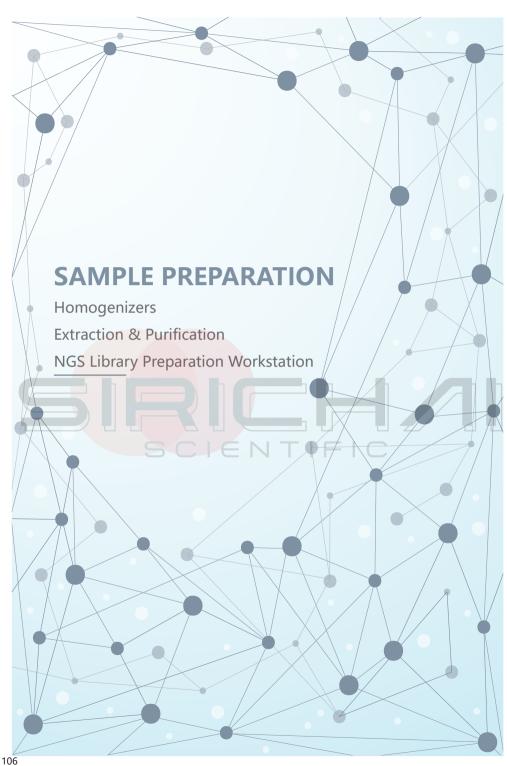
Imaging, Analysis, and Manipulation

Portable Cell Counter

CLINICAL DEVICES

Osmometer

Osmometer Calibration Standard



Homogenizer — Rotor-Stator Homogenizer

Handheld Rotor-Stator Homogenizer rapidly homogenizes biological samples and can handlesample volumes ranging from 0.1ml to 250ml, depending on the generator probe used.

The rotor rotates rapidly within a stationary stator. This creates a suction effect, and the sample is drawn into the space between the two components, where it is subjected to high shear forces thereby homogenizing the samples.

The device comes with 10 speed levels to meet your sample processing needs. An On/Off switch allows the homogenizer to be left on a stand at the required setting.

FEATURES

Lightweight

It can be operated with one hand

Powerful

160W motor provides rotor speeds from 8,000 to 30,000 rpm.

Durable

High-quality 316L stainless steel probe is corrosion-resistant and is autoclavable

Convenient

Interchangeable Probes can be easily dismantled for cleaning

Three generator probe options

5mm, 7mm, 10mm

- Ten adjustable speed levels
- Ideal for lysing cells and homogenizing soft tissue.
- Also suitable for applications involving liquids and suspensions, including mixing or emulsifying.





Model	OH301
Power supply	110~120V/60Hz 220-240V / 50-60 Hz
Input power	160W
Output power	110W
Max. linear speed of rotor	6.3-14m/sec
Max. viscosity	5,000mPas
Max. noise	72db(A)
RPM range	8000~30000 rpm
Working Volume	0.1~250ml
Unit weight	0.5~0.7kg
Dimensions	55*57*210 mm
Permissible environment	0~40°C, 85% rel. Humidity
Probes	10mm(Standard), 7mm(Optional), 5mm(Optional)
Stand	Included
Speed adjustment	10 levels
Protection grade	IP20

Homogenizer — Bead Mill Homogenizer

The Bead Mill Homogenizer is a high throughput tissue homogenizing device capable of operating up to 24 tubes of 2mL. It completely lyses, grinds and homogenizes a broad variety of biological samples. The device subjects the samples placed in tubes containing micro-beads to a high speed, 3D motion, and as a result of the collision between the samples and the beads the samples are homogenized. After homogenization, samples can be centrifuged, and the supernatant collected for further processing.

Cycle setting option is available where the unit can be programmed to operate in cycles with a rest period in between, especially to protect fragile, heat sensitive samples.

FEATURES

- High-Throughput: Can homogenize up to 24 tubes (2mL) simultaneously
- Rapid acceleration and deceleration for quick grinding: from rest to maximum speed in less than 4 seconds
- Ergonomic tube locking system for faster loading and removal of the tubes
- Cycle setting option to operate in cycles with a rest period in between, to protect fragile, heat sensitive samples.
- Up to 50 programs can be stored in memory for future use: speed, run time, rest time, number of cycles can be set
- The ergonomically positioned 5-inch touch screen comes with an intuitive user interface
- Maintenance-free brushless motor
- Can be used with a variety of grinding beads, such as zirconia, glass beads, ceramic beads, steel beads etc.





SPECIFICATIONS	
Model	BMH024
Sample capacity	24 x 2.0 ml
Motion Mode	3D Motion
Speed range	3.2 to 7 m/s (2000 to 4300 rpm), increment 0.05m/s
Power	500w
Power supply	AC100-240V, 50/60Hz
Working time	1s90s, increment 1s
Interval time	1s120s, increment 1s
Cycles	10
Noise	< 70 db
Grinding Beads	Glass, Ceramic, Steel
Interface	5-inchTouch screen
Stored programs	50
Acceleration time	<4s
Deceleration time	<4s
Dimensions(L x W x H)	390 x 290 x 350mm
Weight	≤27KG
Standard Capacity	24 x 2.0ml (Standard Rotor)
Optional Accessories	12×5.0mL rotor



Nucleic Acid Extraction System

MultiEX series products offer automated nucleic acid extraction and purification using Magnetic Bead separation. The MultiEX 016 and MultiEX 032 system can meet your common nucleic acid extraction needs, with the capacity to process 16 and 32 samples per run, respectively. The MultiEX 096 is a High -throughput system and can process up to 96 samples per run. Using Magnetic Bead Separation technology, the MultiEX series extractors are capable of extracting and purifying nucleic acids from a variety of biological samples, such as whole blood, viruses, tissues, plants, animals, fungi, bacteria, cultured cells, swabs, feces, blood cards, etc. The system comes with a user-friendly touch screen interface allowing the user to easily set purification parameters. The automated system integrates all the purification phases including binding, mixing, washing, and elution, and delivers high-efficiency, high-quality purification. The system works with any prefilled magnetic bead-based reagent kit.

Nucleic Acid Extraction — MultiEX 016

FEATURES

• Compact & Lightweight

The small footprint fits into tight lab spaces while still delivering full nucleic acid extraction capability.

Versatile

Can be powered by a 24V external battery, enabling mobile on-site nucleic acid extraction.

• Ease Of Use

7-inch capacitive touchscreen and intuitive user interface makes protocol creation simple and easy.

Flexible

As an open platform, all parameters can be adjusted to suit different extraction kits.

• Minimal Hands-On Time

Fully automated system with auto-check function limits manual intervention and provides reliable and reproducible results.

Powerful Mixing

Adjustable, high-speed stirring (up to 10Hz) properly homogenizes even challenging samples for maximum nucleic acid yields

Contamination control

Integrated UV disinfection system eliminates cross-contamination between runs.

Advanced Temperature Control

Multiple heating modules with precise temperature control and a fast ramp rate (can reach 100°C in about a minute).

• Convenient program management

Programs can be easily imported and exported through USB.





Model	MultiEX 016	
Processing volume	50-1000μL	
Throughput	1-16 samples	
Plate quantity	1	
Plate type	96-Deep Well Plate (conical/round bottom)	
Processing time	20min-40min/run (depending on reagent types and volumes)	
Reagent type	Magnetic bead-based reagent kits (open system)	
Program management	Create, Edit and Delete options available	
Heating temperature	37°C-125°C	
Temperature accuracy	1.5℃	
Magnetic beads recovery rate	98%	
Inter-well purification variance	CV<3%	
Noise	<55db	
Mixing intensities	Adjustable:8 Levels	
Data storage capacity	>500 programs	
Dimension	210mm*250mm*315mm	
Display	7-inch color touchscreen	
Lighting	YES	
UV sterilization	YES	
D 1	24V DC, 100-240V AC Adapter included	
Power supply	(Operable with 24V 5A Battery)	
Weight	9KG	
Extension ports	2 USB ports	

Nucleic Acid Extraction — MultiEX 032

FEATURES

• Compact & Lightweight

Help save your limited laboratory bench space

Stable and Efficient

Automated processing avoids discrepancies and errors caused by manual operations and increases the efficiency

Fase of Use

A 10-inch color touch screen and user-friendly interface lets you easily set purification parameters

Contamination Control

Built-in UV disinfection lamp eliminates cross contamination

Advanced Stirring Technology

Stirring speed up to 10HZ (10 times up and down in 1 second) enables effective mixing of samples with high viscosity (blood, feces, etc.).

Multi Heating Modules

Multiple heating modules with individual heating controls ensures temperature accuracy for lysis and elution.

Safe and Reliable

The operation will automatically suspend once the safety door opens and only resumes after the safety door is shut, which provides better protection for users.

Self-Diagnostics

Auto checks before every run ensures that the sleeve, rod and well plate are positioned correctly thereby avoiding any errors due to omission or interference.

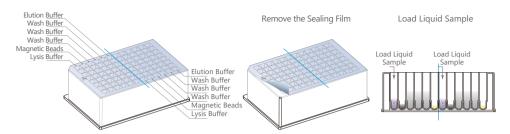




Model	MultiEX 032	
Processing volume	50-1000μL	
Throughput	1-32 samples	
Plate Quantity		
Plate Type	96-well deep-well plate	
Processing Time	20min-40min/run (depending on reagent types and volumes)	
Reagent Type	Magnetic bead-based reagent kits (open system)	
Program management	create, edit, and delete options available	
Heating Temp.	37°C-125°C	
Mixing Intensities	Adjustable: 8 Levels	
Max. Stirring Speed	10 Hz	
Magnetic Bead Recovery Rate	98%	
Inter-well Purification Variation	CV < 3%	
Working Noise	< 55dB	
Data Storage Capacity	> 500 programs	
Dimension	349x325x390mm	
Display	10-inch color touch screen	
Lighting	Yes	
Contamination Control	UV light	
Power Supply	200-240VAC, 100-120VAC; 50/60Hz	
Weight	25KG	
Extension ports	2 USB port, 1 Ethernet port	

Working Principle for MultiEX 016 and MultiEX 032

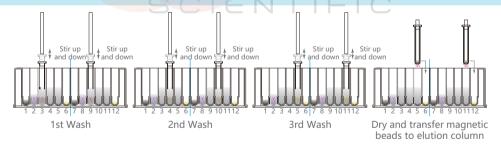
Sample Loading



Lysis/Nucleic Acid Binding: Lysis buffer solution promotes cell rupture and releases nucleic acids. Magnetic beads transferred from wells 2/8 to the lysis wells binds to the target nucleic acid molecules. The magnetic beads with the bound particles are then moved to the wells 3/9 for washing.



Washing: Alcoholic wash buffers in the wash wells facilitate the removal of contaminants. Since the magnetic sleeves were soaked in alcohol during the wash stage, they need to 'air dry' above the wells so that the alcohol can volatilize before starting the elution stage.



Elution: After ethanol is removed, the nucleic acid bound to the magnetic beads are mixed in elution buffer, releasing the nucleic acid.



Magnetic Bead-Based DNA/RNA Extraction Kits (for MultiEX 016 and 032)

Our prefilled kits enable automated DNA/RNA extraction from a wide range of sample types, such as blood, saliva, plant and animal tissue, and more. With high purity and yield, they are ideal for various downstream applications, including PCR, qPCR, and NGS.

Available Extraction Kits:

- Genomic DNA Extraction from Saliva
- Genomic DNA Extraction from Whole Blood and Buffy Coat (with RNase)
- Pathogen Total Nucleic Acid Extraction
- Viral DNA/RNA Extraction
- Fecal Extraction
- Plant Tissue DNA Extraction
- Animal Tissue Genomic DNA Extraction



Throughput	32 tests per kit
Starting Sample Material	Serum, Plasma, Saliva, and other body fluids
Starting Sample Amount	200 μL
Elution Volume	100 μL
Plate Type	V-bottom 96-well deep-well plate
Plate Quantity	2 x 96-well deep-well plate
Magnetic Rod Sleeve Combs	4 combs (tip combs for 8-wells)
Shelf Life	2 years (0-35°C)

MultiEX 016 and 032 Consumables

We offer magnetic tip combs, deep well plates, and 6-well sample strips for the MultiEX 016 and 032. Made from virgin polypropylene and packaged in a sterile environment, they are DNAse/RNase-free and pyrogen-free.

Magnetic Tip Combs: These 8-place combs slide and lock into the device chamber roof.

Sample Vessels: Choose between 96 deep-well plates for processing up to 16 samples at once or 6-well sample strips (1 sample per strip). The strips load onto an aluminum rack that holds up to 8 strips, offering flexibility for lower throughput applications.

Standard Consumables





Nucleic Acid Extraction — MultiEX 096P

Introducing **MultiEX 096P**, our next-generation 96-throughput nucleic acid extractor. The MultiEX 096P replaces its predecessor, the MultiEX 096, with an improved compact design. While maintaining exceptional recovery efficiency and high-throughput capabilities for 96 samples, its smaller footprint upgrades your workflow with space-saving convenience.

FEATURES

Reliable and Precise

- Rapid heat-up to 100°C in just 1 minute
- Accurate temperature control (from RT to 125°C) ensures optimal performance

• Effective Cross-Contamination Prevention

- Built-in UV disinfection lamp eliminates cross-contamination and automatically powers off after disinfection
- Built-in filtration system provides contamination-free ventilation

• Convenient Program and System Management

Multi-functional operating system with streamlined functions to edit program parameters for custom protocols, upgrade the system via USB, and import/export programs via USB

Auto-check Safety Feature

Auto-check function before each run verifies the correct positioning of the rods, rod sleeves and well plate, thereby reducing operational errors

Advanced Mixing Technology

Mixing speed up to 10Hz enables effective sample lysis and reduces experiment runtime

• Compact Structure

Compact design saves benchtop space while providing high throughput extraction capabilities



Model	MultiEX 096P	
Throughput	1-96 Samples	
Processing Volume	50 – 1000 μl	
Processing Time	20 – 40min/run (depending on reagents and volumes)	
Plate Capacity	6 Plates	
Plate Type	96-well deep-well plate	
Other Consumables	Magnetic rod sleeves	
Reagent Type	Magnetic bead-based reagent kits (open system)	
Heating Temperature Range	37°C-125°C	
Temperature Accuracy	1.5℃	
Mixing Intensities	Adjustable: 8 levels	
Max. Stirring Speed	10Hz	
Magnetic Bead Recovery Rate	98%	
Inter-well Purification Variation	CV< 3%	
Contamination Control	UV light sterilization, Built-in HEPA filters	
Program Management	Create, Edit, and Delete options available	
Data Storage Capacity	>500 programs	
Display	10-inch color touch screen	
Extension Ports	2 USB ports	
Power Supply	100-240V AC, 50/60Hz	
Noise	<60 dB	
Weight	35 kg	
Dimension (W*D*H)	349mm*440mm*388mm	

Catalog No.	Description
DPC	96-well deep-well plate, 2.2mL (DNase/RNase free, Non-Sterile)
MRS-096P	Magnetic Rod Sleeve for MultiEx 096P (DNase/RNase free, Non-Sterile)

SAMPLE PREPARATIO

Nucleic Acid Extraction — MultiEX 024L

Large Volume Nucleic Acid Extractor

The MultiEX 024L provides automated nucleic acid extraction and purification using magnetic bead based separation, with the capacity to process 1-24 samples in a single run. The MultiEX 024L is ideal for the extraction of cfDNA, with a maximum processing volume of 8mL. It is suitable for research facilities, diagnostic laboratories, and biotechnology industry.



MRS-024I

Magnetic Rod Sleeve for MultiEx 024L

(DNase/RNase free, Non-Sterile)

FEATURES

• Large Volume Sample Processing Enables Diverse Applications

- Processes large initial sample volumes (up to 8mL) for automated nucleic acid extraction with final elution volumes as low as 50 μ L
- Ideal for applications requiring larger initial sample volumes, particularly cfDNA (cell-free DNA) extractions from bodily fluids and pathogenic DNA extraction from water sources including wastewater
- Also well-suited for extraction protocols requiring larger sample volumes exceeding the conventional 1ml threshold for various reagent kits

• Unique Mixing Technology & Open System Design

- Powerful oscillation mixing technology that combines vortex mixing up to 3000 RPM within each well, and linear back-and-forth mixing of the entire plate for thorough mixing
- The mixing speed of the magnetic rod (RPM), the waiting times of the rod at both the liquid surface and at the liquid bottom, and many other parameters can be easily adjusted according to the specifications of the reagent kit with our open system design
- The magnetic flux of the magnetic rods is rated up to 5500 Gs, and each rod can be disassembled for hassle-free maintenance

• Effective Cross-Contamination Prevention

- Built-in UV disinfection lamp eliminates cross-contamination and automatically powers off after disinfection
- Built-in filtration system provides contamination-free ventilation

Convenient Program and System Management

Multi-functional operating system with streamlined functions to edit program parameters for custom protocols, upgrade the system via USB, and import/export programs via USB

• Fast Heating, High Efficiency

Wide heating temperature range from 37°C to 125°C; heats up from RT to 100°C in just 1 minute

Compact Design

Compact size while providing high-throughput extraction capacity of large volume samples



DI ECHITC/ (ITOTA)	
Model	MultiEX 024L
Throughput	1-24 Samples
Processing Volume	50 μl – 8 ml
Processing Time	20 – 40min/run (depending on reagent and volumes)
Capacity	Supports up to 24 Reagent Strips or 6 Plates
6 11	Reagent Strips (Single Sample) / Strip Plates (4 Samples) and
Consumables	Magnetic Rod Sleeves
Reagent Type	Magnetic bead-based reagent kits (open system)
Heating Temperature Range	37°C-125°C
Temperature Accuracy	1.5℃
Mixing Method	Rotational Mixing (Rod Sleeves) + Linear Shaking (Plate)
Mixing Speed (Rod Sleeves)	0-3000rpm
Magnetic Beads Recovery Rate	98%
Inter-well Purification Variance	CV < 3%
Contamination Control	UV light sterilization, Built-in HEPA filters
Program Management	Create, Edit, and Delete options available
Data Storage Capacity	> 500 programs
Display	10-inch color touch screen
Extension Ports	2 USB ports
Power Supply	100-240V AC, 50/60Hz
Noise	< 60dB
Weight	32 kg
Dimension (W*D*H)	349mm*440mm*388mm





Magnetic Racks

MR series magnetic rack is used for preliminary magnetic beads purification of biological samples, such as Protein, Nucleic acid or cell-lines. General Process:

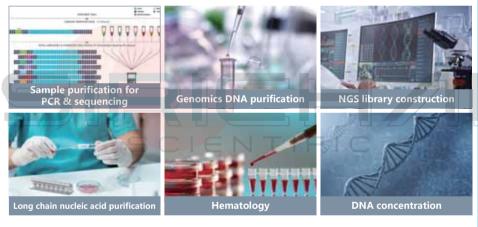
- First, mix magnetic beads and sample in a tube
- The magnetic beads will bind to the target within 10 seconds
- Place the tube/s into the Magnetic Rack
- The beads along with the bound target will cling magnetically to the side of the tube wall
- The remaining supernatant can be removed to obtain the purified target.

Magnetic Racks

FEATURES

- Easy operation and provides effective separation for small-volume samples.
- Comes with adapter ring, making it suitable for holding 1.5 ml tubes from different manufacturers.
- Stable performance at a wide temperature range (-20°C~80°C).
- Fast Separation: Magnetic beads separation within 10 seconds.
- Magnets are positioned at an angle of 10° for optimal contact with the tube cone, there by providing faster separation.
- With detachable magnet holder for easy resuspension.
- Capable of simultaneous magnetic bead separation: Can handle Multiple tubes simultaneously.
- Suitable purification methodology for biological samples.
- Compact, Light-weight and made from durable materials.

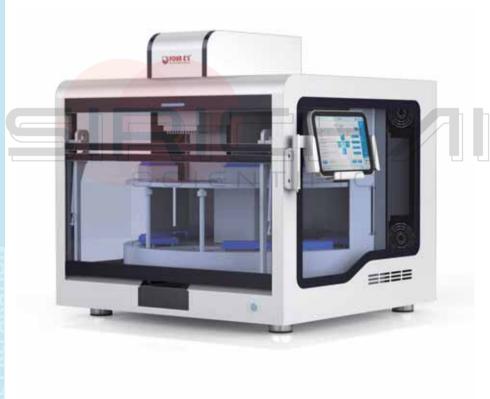
APPLICATIONS



Model	MR108	MR216
Holes	8	16
Aperture	10.9mm	10.9mm
Sample Capacity	1.5mL tubes	1.5mL tubes
Working Volume	10-1000uL	10-1000uL
Magnet Pull Strength	5,000g	5,000g
Magnet Field Strength	>5,000 gauss	>5,000 gauss
Dimension	184x42x39.8mm	190x43.8x39.8mm

96-Channel NGS Library Preparation Workstation

NGS Prep96 is a 96-channel liquid handling workstation for DNA library preparation. Composed of 96-channel precision pipetting module, magnetic separation module and temperature control module, it can be widely used in third-party testing centers, hospitals, Centers for Disease Control and Prevention, breeding centers, scientific research institutions etc.



Turntable design for improved efficiency

- Simple layout for easy operation and liquid handing
- Scanning module to avoid plate placement errors

Precise and reliable liquid handling

- Controllable aspiration & dispensing speeds to meet different applications
- According to different liquid viscosity, 'Liquid Class' value can be adjusted to achieve accurate aspiration volume control
- Liquid handling accuracy: 1µL CV ≤5%

Innovative in-place reaction to reduce the possibility of contamination

- Integrated modules in the turntable (under the plate) for different functions
- Efficient workflow with minimum steps

All functions integrated into the turntable and turntable moves back and forth during different steps.

- 1. This design can skip the work by manual grabbing modules
- 2. Can reduce the possibility of plate error during movement
- 3. Can reduce operating time



Model	NGS Prep96
Channels	96
Volume range	5-200μL
Inaccuracy	±1.2%
Imprecision	≤0.8%
Aspirating Principle	Air-displacement piston type
Throughput	96
Decks	18
Consumables	200μL PCR plate, 200μL pipette tip
Reagent used	Open kits
Magnetic Module	3
Magnetic Strength	5000GS
Temperature Control Module	2
Temperature Range	4-80℃
Temperature Control Method	Semi-conductor refrigeration
Temperature Probe	PT1000
Number of Temperature Probe	2
Dimensions	LWH: 760mm*780mm*720mm
Display	12-inch tablet
Display Connection	tablet is connected to the main unit via Bluetooth
LED&UV	yes (12V, 5W)
Scanning Module	yes (Bar code and QR code)
Program	Programs can be added, edited and deleted
Data Storage	Can store > 500 sets of programs
Data Transfer	2 USB ports, ethernet
Power	Less than 800W
Motor	42、 57 stepper motor
Numbers of motor	7
Voltage	AC 220V, 50Hz/60Hz
Cooling method	Fan
Weight	60-75KG
Noise	≤ 60db



PCR — Gradient PCR Optima96



- Six Independent Temperature Blocks with imported TEC modules provide precise Temperature control for PCR optimization
 - Excellent gradient temperature accuracy.
 - Independent front and rear air inlet and outlet duct design, which allows instruments to be placed close to each other, saving laboratory space.
 - Ultra large fin-type heat sink with intelligent fan speed control technology provides low-noise heat dissipation.
 - Segmented heating lid design adapts to all types of PCR tubes, strips and well plates by automatically adjusting the lid height
 - The Lid comes with Intelligent auto-heating off function to reduce non-specific amplification by turning off the heating when the temperature of sample blocks is below 30°C.
 - Faster Heating and cooling Rates (Maximum heating rate >5°C/s, maximum cooling rate >4°C/s)
 - Provides excellent temperature uniformity and the gradient layout reduces edge effect
 - Comes with USB interface at the front for easy program import & export. Also, Device software can be updated through USB
 - Comes with Multiple Accounts and Access rights (Administrator, User Accounts, Visitor Accounts)
 - High resolution, 7-inch LCD touchscreen panel for easy operation and monitoring
 - Touchdown (TD) PCR Mode and Long Range PCR Modes are available
 - Compatible with universial PCR tubes, PCR 8 strips and 96-well plates.

TEMPERATURE CONTROL

Model	Optima96
Sample Throughput	96 Samples
Applicable Consumables	0.2mL PCR Tubes, 0.2mL 8-tube Strips, 0.2mL 96-well PCR
	Plate (non-skirted/semi-skirted)
PCR reaction volume	10-100 μL
Heating lid temperature	30-110°C
Max. block heating Rate	5°C/s
Max. block cooling Rate	4 °C/s
Temperature uniformity	<0.5°C (20s after reaching 95°C)
Sample temperature range	4°C~100°C
Temperature accuracy	±0.25 °C (35 °C−99.9 °C)
Technology (heating/Cooling)	Semiconductor Peltier technology, 6 independent blocks
Display resolution	0.1°C

GRADIENT

Maximum temperature difference between blocks	25°C (max. 5°C between two adjacent blocks)
Temperature difference between two adjacent blocks	0.1°C~5.0°C
Gradient temperature accuracy	±0.25 °C (35 °C−99.9 °C)
Gradient temperature uniformity	<0.5°C (20s after reaching 95°C)

PROGRAM FUNCTION

LCD display	7" LCD touch screen, real-time display of PCR process,	
	can be used while wearing gloves	
Max. number of steps	55	
Time increment / decrement	1~120s, for Long Range PCR experiment	
Temperature increment / decrement	0.1°C~10.0°C, for Touchdown PCR	
Maximum number of cycles	999	

OTHER FEATURES

Tm value calculation function	Yes	
Automatic pause/power-off protection	Yes	
Communication interface	USB 2.0	
Storage	External USB Drive and Internal Memory	
Program storage capacity	Up to 1000 programs in the instrument,	
	Unlimited storage with USB flash drive	

POWER SUPPLY

Input power	100~240V, 50~60Hz
Max. power	750 V A
Max. current	10A
Noise	<55dB

OTHER FUNCTIONS

Specific amplification	The blocks do not start heating until the heating lid temperature reaches the set temperature so as to prevent sample evaporation and improve reaction specificity.
Template	Pre-stored multiple standard experiment templates, simplify the tedious programming steps
Certification	CE, RoHS
Dimensions (L×W×H)	364×243×244mm
Net weight	8.7kg



qPCR — Real-Time PCR S1604 (16-wells)

S1604 Real-Time PCR System is a portable fluorescence quantitative PCR instrument with four channels detection and twin 8-well block design. The two blocks can run two different programs simultaneously. The product comes with a 7-inch-high definition TFT color touch screen and built-in software which can set-up experiments and analyze experimental data. It also comes with windows PC software that allows you to run and analyze qPCR data from personal computer. The custom-made Peltier elements and highly sensitive photoelectric detectors with side scan technology ensure superior performance and accurate results. For the stand-alone operation the device can also be connected to a thermal printer (optional).

Application

Real-Time PCR System is designed to meet the needs of small and medium sized laboratories, mobile laboratories, and on-site testing.

FEATURES

- 2x8-well dual block design, and the two blocks can run different programs at the same time
- Simple and easy to use interface





Model

Capacity	16 × 0.2ml(2 × 8well, dual block)	
Consumable	Clear 0.2 ml PCR tube /8-tube strips	
Reaction Volume	15-100µl	
Temperature control technology	Customized Peltier module	
Temperature Range	0-100°C(Resolution:0.1°C)	
MAX. Ramp Rate	7°C/s	
Temperature fluctuation	±0.1°C	
Uniformity	±0,25°C	
Accuracy	±0,25°C	
Hot Lid Termperature	30-110°C ((Adjustable, default 105°C))	
Temperature Control	Block/Tube	
Excitation wavelength	460-650nm	
Emission wavelength	F1:520-540nm / F2: 540-580nm	
	F3: 571-612nm / F4:628-692nm	
Factory Calibrated Dyes	F1: FAM/SYBR Green I / F2: HEX/VIC/JOE/TET	
	F3: ROX / F4: CY5	
Excitation	Long life LED	
Detection	High sensitivity photoelectric detector	
Dynamic Range	1-10 ¹⁰ Copies	
Sensitivity	1 сору	
Analysis Modules	Quantitative/qualitative analysis, Melting curve, Genotyping	
Date Export Formats	excel,csv,txt	
Printing	Report can be printed (optional USB thermal printer)	
Control Method	7 inch color TFT touch screen,	
	Can be connected to computer control	
Communication	USB 2.0	
Dimension	300×267×198 mm(L × W × H)	
Net Weight	8 KG	
Voltage	220 VAC、 50 Hz	
Power	DC 15V 255 W	

S1604



48E: 4-channel qPCR

48R: 2-channel qPCR

Tailored to meet the needs of small and medium-sized laboratories and onsite testing

48E/48R Real-Time PCR System is designed to meet the needs of small and medium sized laboratories, mobile laboratories, and on-site testing. Excellent temperature control and detection ensures fast and accurate results



EXCELLENT PERFORMANCE

• Sample throughput

Comes with 48-well design and two models one with 4-channels (48E) and the other with 2-channel (48R).

48E can detect up to 4 target types per tube at the same time and the 48R up to 2 targets.

Maximum heating ramp rate ≥8.0°C/s



• Efficient temperature control

The maximum heating ramp rate is $\geq 8.0^{\circ}\text{C/s}$, and the maximum cooling ramp rate is $\geq 6.2^{\circ}\text{C/s}$. It only takes 40 minutes to complete a standard PCR amplification program for your rapid detection needs. Temperature accuracy is controlled within 0.1°C, ensuring excellent repeatability and accuracy.

• Fast fluorescence scanning

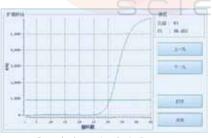
Only 2 seconds, all 48-hole 4(48E)-/2(48R)-color fluorescence scanning can be completed. For lab professionals who need to use the melting curve function, this can significantly reduce the entire testing time and improve efficiency.



EASY TO USE

- 48E/48R is designed with a built-in 7-inch full-color touch screen, independent control system and USB port for data export with the storage of at least 1000 experiments.
- It can be connected to a PC for control and operation, or it can do stand-alone operation.

 For the stand-alone operation the device can also be connected to a thermal printer (optional), the sample amplification curves, and CT values can be directly printed out.
- The device interface and the PC software are easy to use
- The device comes with standard network connectivity for cloud-enabled operations, experiment monitoring and can do data exchange in the local area network after simple configuration.



Stand-alone Analysis Report



Direct printing in stand-alone mode

POWERFUL DATA PROCESSING

• A Real All-in-One Instrument

In addition to the conventional relative quantification, absolute quantification, melting curve, genotyping, and end point fluorescence analysis functions, 48E/48R is also compatible with the fluorescence analysis functions of a variety of isothermal amplification technologies.

• Complex Data Analysis

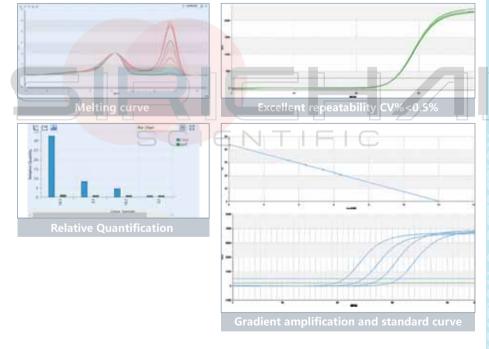
Together with the instrument operating software, a set of independent data management software is also built in 48E/48R for the centralized management and analysis of your massive experimental data, to minimize the errors caused by manual analysis of original data.

• Multi-Function Reporting

The built-in multi-function reporting function can adjust and customize the format of the experimental report according to the various needs of your lab and establish your own experimental report style.



EXPERIMENTAL DATA DISPLAY



Model	48E	48R
Throughput	48	48
Fluorescence Channels	4	2
Compatible Fluorophores	Channel 1: FAM, SYBR Green I, etc. Channel 2: VIC, HEX, TET, JOE, etc. Channel 3: ROX, Texas Red, etc. Channel 4: Cy5, etc.	Channel 1: FAM, SYBR Green I, etc. Channel 2: VIC, HEX, TET, JOE, etc.
Light Source	High-brightness, long-life and maintenance-free LED light source	
Detector	Photodiodes (PDs)	
Fluorescence Scanning Time	48-well 4-channel detection completed within 2s	48-well 2-channel detection completed within 2s
Heating Rate	Maximum heating ramp rate ≥8.0°C/	s; Average heating ramp rate ≥6.2°C/s
Cooling Rate	Maximum cooling ramp rate ≥6.2°C/s;	Average heating ramp rate ≥4.5°C/s
Temperature Accuracy	≤ 0.1°C	
Special Temperature Setting Function	Support thermal gradients PCR, Lor	ng PCR, Touch Down PCR
Suitable Consumables	0.2mL clear non-skirt 48-well plates	, 8-tube strips, single tubes, etc.
Sample Testing Linearity and	Linear Correlation: CV≥0.999	
Repeatability	Repeatability: cycle threshold (Ct) va	alue CV ≤0.5%
	Qualitative analysis, absolute quantitative analysis, relative quantitative	
Software Analysis	analysis, end point fluorescence analysis, melting curve analysis, and genotyping analysis, etc.	
	Stand-alone operation: 7-inch touchscreen control;	
Control Method	Cloud-enabled: PC software control via direct connection or LAN (local area network); Up to 10 devices controlled by one PC	
	Automatic recovery of the experiment and other functions when the	
Power Failure Protection	power is on again after cutting off, without waiting for the power-on	
	of the computer or software control	
Data Storage and Transmission	A single machine can store more than 1,000 experimental data files,	
	which can be imported and exported via USB disks	
Stand-Alone Analysis Results	No need for an extra computer: experimental data analysis enabled within the instrument; Direct printing function (optional) to output the sample amplification curve and CT value, simply by connecting to the compatible thermal printer	
Reporting Function	Built-in experiment report templates for a variety of industries; Fully open universal reporting of which the contents and formats can be customized	
Operating System	Windows XP Pro or higher	
Power Supply and Power Consumption	AC 100-240V, 50-60Hz; 600VA	
Weight	11Kg (net)	
Instrument Dimension	260x400x260mm	

qPCR — Real-Time PCR 960406 (96-wells)

960406 Real-time PCR is a 96 well quantitative fluorescence Real-time PCR System, equipped with a 10.1-inch high-definition color touch screen and built-in analysis software for intuitive operation and analysis. Combining the innovative thermal cycling system, accurate photoelectric detection system and intuitive software, the real-time PCR delivers precise and reproducible experimental results. The device also has two temperature control modes settings which enables you to control either block or tube temperatures.

96-well high-throughput

Up to 6 channels

Highly sensitive PMT detection

Maximum 40°C gradient temperature



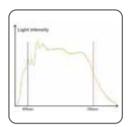
Touchscreen





Sample tray control: automatically opens/closes

FEATURES



High-sensitivity

The full-spectrum high-power LED with high sensitive Hamamatsu photomultiplier tube top scanning, achieves higher sensitivity.



High-precision

High-precision temperature control guarantees the block temperature resolution at 0.1 °C and temperature uniformity of 0.1 °C. Gradient temperature control range is 30-100 °C and the maximum temperature difference is 40 °C.



Automation

Sample tray automatically moves in/out, enabling integration with automated workstations/plate handlers.



Ergonomic design

The device is ergonomically designed, and the intuitive user interface delivers superior customer experience.

SOFTWARE DISPLAY



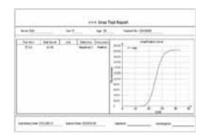


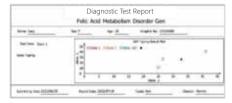


Built-in software



PC software





Reports



10.1-inch large touch screen, precise response, convenient operation.



6 fluorescence channels to meet a variety of experimental schemes.



Preset templates + "Quick Run", starts experiment immediately.



Can be integrated with Automated workstation/plate handlers for unmanned operations



Flexible program settings to meet the individual needs of users.



Built-in software and PC software for improved user's experience.

SPECIFICATIONS		
Model	960406	
Throughput	96 well (12 × 8)	
Applicable	PCR single tube and strip of 0.2 ml, 96-well half skirted / no skirted	
consumables	plate; PCR single tube and strip of 0.1 ml, 96-well no skirted plate	
Dynamic range	1-10 ¹⁰ copies	
Detection location	Top detection	
Excitation light wavelength	400-800nm	
Detection wavelength	500-800nm	
Fluorescence channels	6 channels	
Fluorochrome/dye	Channel 1: FAM/SYBR Green Channel 2: JOE/HEX/TET/VIC Channel 3: NED/TAMRA/Cy3	
Excitation light source	full-spectrum LED	
Detector	PMT	
Block temp. range	4~105°C	
Block temp. accuracy	≤±0.1°C	
Block temp. precision	≤±0.1°C	
Block temp. uniformity	≤±0.1°C	
Max heating & cooling rate of block	≥6°C/s	
Gradient temp. difference	1-40°C	
Block temp. control mode	Block mode, Tube mode	
Sample volume range	5-100µL	
Heated lid temp. range	30°C-110°C (default 105°C)	
Fluorescence intensity	CV ≤ 3%	
Touch screen	Yes, 10.1-inch touch screen	
Scan mode	Full plate scan or specified line scan	
Software functions	Absolute quantification, Relative quantification, Melting curve,	
	SNP genotyping, HRM, Quick run, etc.	
Operating system	PC software (Windows 8 or higher), Built-in software	
Ports	USB Type-A port × 2, USB Type-B port, RJ45 port	
Power-off protection function	YES, data can be restored after power-on	
Sample tray control mode Sample tray automatically moves in/out, enabling in:		
	with automated workstations/plate handlers.	
Dimension (WxDxH)	320mm x 525mm x 420mm	
Net weight	≤23kg	
Thermal Cycling Technology	Peltier Module	
Memory	8GB	

PCR — PCR Consumables

Our PCR Tube Strips and PCR plates are for use with PCR and qPCR machines.

PCR 8-tube Strips

- DNase/RNase-free, free of any PCR inhibitors
- Comes with detachable, optically clear, flat cap strips
- Standard (0.2mL) and Low Profile (0.1mL) available
- Transparent tubes or white tubes available

PCR 96-well Plate

- DNase/RNase-free, free of any PCR inhibitors
- Non-skirted, semi-skirted, full skirted options available
- Standard (0.2mL) and Low Profile (0.1mL) available
- Comes with alphanumeric labeling



Integrated Gene Detection System

Automatic Integrated Gene detection System (AIGS)

AIGS is a fully integrated system, which combines nucleic acid extraction with real-time PCR amplification using the microfluidic cartridge prefilled kit. It can be widely used for gene detection in food safety, agriculture, and pet health

FEATURES

A fully integrated gene extraction and detection system

- Samples in, reports out after 1 hour.
- No need for nucleic acid extraction
- The ready-to-use prefilled microfluidic cartridge saves you the time and hassle in reagent preparation.

Multiplex detection without crosstalk

- Each detection chamber operates independently. Start test in each chamber any time and no need to wait until all samples are ready.
- 5-channel fluorescent selection enables multiple gene detection.
- AIGS-4S can test 4 samples in a run

Simple and intuitive software for easy operation

- It's easy to operate with the intuitive software interface and customizable program protoco
- Test results can be traced and reports can be printed.



APPLICATION

Female health, Respiratory diseases, Digestive diseases, Veterinary diseases, Genetic diseases, Food safety

WORKFLOW

AIGS-4

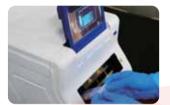


1st step

Add homogenized sample, such as whole blood, sputum, puncture fluid and then add magnetic beads from the kit.

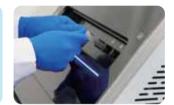
AIGS-16





2nd step

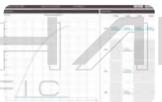
Scan the cartridge to load the preset protocol for sample. Insert the cartridge and run.





3rd step

Report generated automatically

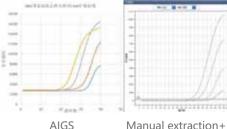


AIGS KITS

Cartridge-based system: Microfluidic cartridges is easy to use, and the closed system prevents contamination

AIGS Test VS. traditional nucleic acid purification & qPCR detection.
(HBV national standards)

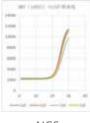
Standards gradient test



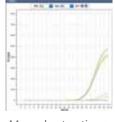
AIGS

fanual extraction and qPCR detection

Standard 100IU sensitivity test

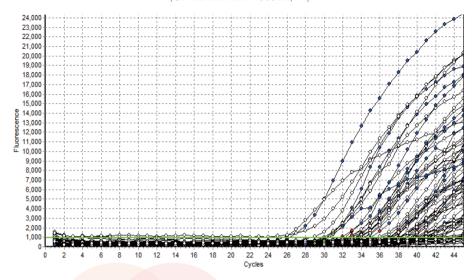


AIGS



Manual extraction+ qPCR detection

GBS sensitivity test, <100cfu/ml, by cultivation gold standard bacteria counts (Clinical standard 1000cfu/ml)



Name	Automatic Integrated Gene detection System (AIGS)	
Model	AIGS-4	AIGS-16
Sample capacity	4 samples	16 samples
Dynamic range	1-10°c	copies
Block temperature range	40°C	-99℃
Block temperature fluctuation	≤±C).5℃
Block temperature accuracy	≤0.	5℃
Temperature display accuracy	0.1	l°C
Block ramp rate	2°C/S	
Dyes	F1: FAM, SYBER Green I; F2: HEX, VIC	
	F3: TAMRA, CY3; F4: TEX RED, ROX, F5:Cy5	
Fluorescence detection repeatability	CV :	≤3%
Fluorescence detection accuracy	CV	≤5%
Fluorescence detection time	≤	5\$
Input power	AC 100-240V, 50-60Hz, 350W	AC 100-240V, 50-60Hz, 1500W
User interface	LCD display	Touch screen
Communication	USB, Ethernet, WiFi	
Size	380 x 305 x 343mm	610 x 550 x 570mm
Weight	16kg	60kg

Kits for human diagnosis (CE IVD registered)

Name	Order No.	Package	Certification
COVID-19 nucleic acid (RNA) POCT detection kit	A021E/	24T	CEIVD
(AIGS real-time fluorescent PCR method)	C0011-E		
2019-nCoV/Influenza A/Influenza B Nucleic Acid (RNA) POCT	A0013-E	24T	CEIVD
Detection Kit (AIGS real-time fluorescent PCR method)			
COVID-19 and N501Y Mutation nucleic acid (RNA)	A0012-E	24T	CEIVD
detection kit (AIGS real-time fluorescent PCR method)			
COVID-19 and variant B.1.1.7 nucleic acid (RNA)	A0016-E	24T	CEIVD
detection kit (AIGS real-time fluorescent PCR method)			
Herpes Simplex Virus Type II Nucleic Acid (DNA)	A0003-E	24T	CEIVD
POCT Detection Kit (AIGS real-time fluorescent PCR method)			
Mycobacterium Tuberculosis Complex Nucleic Acid (DNA) POCT	A0008-E	24T	CEIVD
Detection Kit (AIGS real-time fluorescent PCR method)			
Mycobacterium Tuberculosis Complex Nucleic Acid (DNA) POCT	C0001-E	24T	CEIVD
Detection Kit (AIGS real-time fluorescent PCR method)			
Mycobacterium Tuberculosis/Avium/Abscessus Complex Nucleic	C0008-E	24T	CEIVD
Acid (DNA) POCT Detection Kit (AIGS real-time fluorescent PCR m	ethod)		
Dengue Virus, Zika Virus And Chikungunya Virus Nucleic Acid	C0013-A	24T	CEIVD
(RNA) POCT Detection Kit (AIGS realtime fluorescent PCR method)			
Chlamydia Trachomatis Nucleic Acid (DNA) POCT Detection Kit	A0004-E	24T	CEIVD
(AIGS real-time fluorescent PCR method)			
Ureaplasma nucleic acid (DNA) POCT detection kit	A0001-E	24T	CEIVD
(AIGS real-time fluorescent PCR method) user manual			
Neisseria Gonorrhoeae Nucleic Acid (DNA) POCT	A0002-E	24T	CEIVD
Detection Kit(AIGS real-time fluorescent PCR method)			
Dengue Virus Nucleic Acid (RNA) POCT Typing Kit	A0011-E	24T	CEIVD
(AIGS real-time fluorescent PCR method)			

Model AIGS-4S is used with the following detection kits for animal diagnosis

- The main pathogens that cause common infectious diseases in pets are viruses, bacteria, mycoplasma and chlamydia, and parasites, which seriously endanger the health of pets.
- The cartridge of the AIGS-4S detection system combines microfluidics, magnetic beadsbased nucleic acid extraction, fluorescence real-time PCR to realize the fully-closed automatic output from the sample to the gene detection result.



	ALCC AC
Model	AIGS-4S
Sample capacity	4 samples
Block temperature range	40°C-99°C
Block temperature fluctuation	≤±0.5℃
Block temperature accuracy	≤0.5°C
Temperature display accuracy	0.1°C
Block ramp rate	2°C/S
Dyes	F1: FAM, SYBR Green I; F2: HEX,VIC;
	F3: TEX RED, ROX; F4: Cy5;
Fluorescence detection repeatability	CV ≤3%
Fluorescence detection accuracy	CV ≤5%
Input power	AC 100-240V, 50-60Hz, 350W
User interface	Touch screen
Communication	USB, WiFi
Size	380 x 305 x 343mm
Weight	16kg



Live Stock Target Detection Kit

Product name	Packing	Order No.
African Swine Fever Virus (ASFV) Detection Kit	24 Tests/kit	B0007-E
Avian Influenza Virus Nucleic Acid (RNA)	0.4 =	00040.5
Detection Kit (AIGS POCT real-time RT-PCR method)	24 Tests/kit 80049-E	
Foot-and-Mouth Disease Virus Nucleic Acid		
Detection Kit (POCT Fluorescent PCR method)	24 Tests/kit	В0040-Е



Pet's Single Target Detection Kit

Product name	Description	Order No.
Feline Parvovirus (FPV) Detection Kit	DNA	B000SE
Feline Coronavirus (FCoV) Detection Kit	RNA	B0008E
Feline Herpes Virus (FHV) Detection Kit	DNA	B0009E
Feline Calicivirus (FCV) Detection Kit	RNA	B0010E
Mycoplasma Feline (MF) Detection Kit	DNA	B0011E

Product name	Description	Order No.
Chlamydia Feline (CF) Detection Kit	DNA	B0012E
Feline Leukemia Virus (FeLV) Detection Kit	RNA	B0013E
Tex Gondii (Tex) Detection Kit	DNA	B0015E
Leptospira (Lept) Detection Kit	DNA	B0016E
Barton's Disease (Bar) Detection Kit	DNA	B0017E
Mycoplasma Haemophilus (Mha) Detection Kit	DNA	B0018E
Bordetella (BB) Detection Kit	DNA	BO019E
Babesia virus Detection Kit	DNA	B0030E
Canine Distemper Virus (CDV) Detection Kit	RNA	B0002E
Canine Parvovirus (CPV) Detection Kit	DNA	B0003E
Canine Coronavirus (CCoV) Detection Kit	RNA	B0004E
Canine Herpes Virus (CHV) Detection Kit	DNA	B0006E
Rabies Virus (RV) detection Kit	DNA	B0022E
Canine Adenovirus (CAV-1, hepatitis) Detection Kit	DNA	B0023E
Canine Adenovirus (CAV-2, respiratory tract) Detection Kit	DNA	B0024E
Canine Heartworm (Di) Detection Kit	DNA	B0026E

Pet's Multiplex Kits		
Product name	Order No.	Notes
Feline Respiratory Duplex Test Kit (FCV+FHV)	B0031E 2	2 multiplex kits
Feline Respiratory Duplex Test Kit 2(MF+CF)	B0032E	2 multiplex kits
Feline Diarrhea Duplex Test Kit (FCoV+FPV)	B0033E	2 multiplex kits
Canine Diarrhea Duplex Test Kit (CCoV+CPV)	B0036E	2 multiplex kits
Feline Anemia Duplex Test Kit 2 (FIV+FeIV)	NevvoolTTngSCXIII	2 multiplex kits
Canine Respiratory Duplex Test Kit 2 (CAV2+Bb)	B0039E	2 multiplex kit
Feline Anemia Duplex Test Kit (FelV+ ToxG)	B0041E	2 multiplex kit
Common Duplex Test Kit (ToxG+Lept)e	B0042E	2 multiplex kit
Canine Respiratory Duplex Test Kit (CDV+CHV)	B0045E	2 multiplex kit
Feline Respiratory Triplex Test Kit (FCV+FHV+MF)	B0034E	3 multiplex kit
Feline Respiratory Triplex Test Kit 2 (FHV+MF+CF)	B0035E	3 multiplex kit
Feline Stomatitis Triplex Test Kit (FHV+FCV+FeLV)	B0037E	3 multiplex kits
Canine Respiratory Triplex Test Kit (CDV+CAV2+Bb)	B0043E	3 multiplex kits
Feline Respiratory Multiplex Test Kit (FCV+FHV+MF+CF) B0038E	B0038E	4 multiplex kit
Canine Respiratory Multiplex Test Kit (CHV+CDV+Cav-1+Bb)	B0044E	4 multiplex kit

Notes

Packing specification: 8 Tests/Kit, 24 Tests/Kit

Mobile Lab — Nucleic Acid Amplification Test (NAAT) Kit



The Mobile Lab solution ML201 offers complete portability, and offers rapid Nucleic Acid Amplification Testing (NAAT) without the need for a professional PCR Lab.

The Kit with qPCR at the core, has sample preparation instruments for Nucleic Acid Extraction and qPCR set-up.

FEATURES

- Truly Portable
- Ideal for on-site testing
- Total Solution for Nucleic Acid Amplification
- Plug n Use: No need to set up; simply connect to power source and use.
- * Pictures shown are for illustration purpose only. Actual kit layout may vary.

Nucleic Acid Amplification Test



Lab in a Box

Plug n Use: No need to set up or move any instruments. Simply connect to external power source to use the device







As Portable as a Travel Luggage

Comes with Trolley and Handle; Easy to carry around

Kit Contents

Description	Part #	Qty
Mini Dry bath incubator	TC0401005	1
Mini vortex mixer	MI0101001	1
Mini centrifuge	CF0201001	1
Pipette: Precipette :0.5ul-10 ul	LH0301002	1
Pipette: Precipette 10ul-100ul	LH0301005	1
Pipette: Precipette 100ul-1000ul	LH0301007	1
Magnetic Rack	MR108	1
Portable Real-Time qPCR	qPCR 244	1



Mini Dry bath incubator:TC0401005

Temp. Range:RT+5°C-100°C; Temp stability up to ± 0.2 °C; Heating time (40°C to 100°C temp.): \leq 15min



Mini vortex mixer: MI0101001

Fixed speed 5000rpm; Touch mode

Mini centrifuge:CF0201001

Fixed speed:5400rpm; Rotor capacity:0.2/0.5/1.5/2.0mL x 6 or 0.2mL x 2 PCR 8 strips



Single channel adjustable volume pipette: Precipette

Volume range:0.5µl-10 µl LH0301002 Volume range:10µl-100µl LH0301005 Volume range:100µl-1000µl LH0301007



Portable Real-Time qPCR: 244

Portable Design
24-hole, 4-channel detection
7-inch color touch screen for setting and monitoring



Magnetic Rack for Nucleic Acid Extraction: MR108

Capacity: 8 x 1.5 ml tubes Working Volume: 10µl-1000µl

Microvolume Spectrophotometer

The Microvolume spectrophotometer (UV-Vis) with a built-in 7-inch color touch screen can perform all detection functions without connecting to a computer. The device has a full spectral range (190-800nm) for accurate quantitative analysis of DNA, RNA, proteins, etc. It comes with an intuitive user interface for easy operation.

The instrument requires only $0.5-2\mu l$ micro-volume samples for accurate and reproducible measurements and can detect high concentration samples without dilution. The Xenon flash lamp light source ensures that the device is ready for immediate use without any warm-up time and provides high stability and a long operating life.

Fluorescence detection function

The advanced model (SPT-NanoF) comes with fluorescence detection module. When used with fluorescence quantitative analysis kit it accurately quantifies the concentration of DNA and protein through the specific binding of fluorophore with target material.



FEATURES

- 7-inch LCD touchscreen with intuitive user interface accomplishes detection without the need to connect to a computer
- Only requires 0.5 2µl sample volume for accurate measurement.
- Full spectral range of wavelength detection from 190nm to 800nm.
- Simply power it on and start measuring, no need for lamp warm-up.
- The Xenon flash lamp has long service life up to 10 years.
- Automatic detection on lowering the pedestal arm.
- OD600 function to detect concentration of bacteria and microorganisms.
- For fluorescence detection, it can be used for accurate quantification of extremely low concentration nucleic acid with a lower limit of 0.5pg/µl(dsDNA).
- The test result can be printed by a built-in printer or exported via USB for data analysis and storage.

Model	SPT-NanoF	SPT-Nano
	(built-in Fluorescence Detection)	SF I-NallO
Wavelength range	190-8	00nm
Minimum sample size	0.5 ~	2µL
Path length	0.05mm (high concentration)	/ 0.2mm (high concentration)
ruttriength	1mm (normal o	concentration)
Light source	Xenon fla	ash lamp
Detector type	2048px,	CMOS
Wavelength accuracy	1n	m
Spectral resolution	≤3nm	
Absorbance precision	0.003Abs	
Absorbance accuracy	1% (4.096A at 260nm)	
Absorbance Range	0.04 ~ 300A	
Lower Limit of Detection	2 ng/uL(dsDNA) / 0.06 mg/mL(BSA)	
Maximum Concentration	15,000 ng/uL(dsDNA) / 440 mg/mL(BSA)	
Sample pedestal material	Aluminum alloy and Quartz fiber	
Power supply	AC100V-240V, 50Hz/60Hz (power adapter)	
Operating power	48W	
Standby power	8W	
Software	Android	
Data Output	USB 2.0, built-in printer	

Model SPT-NanoF (built-in Fluorescence Detection) SPT-Nano	
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OD600nm Measurement

Sample Holder Type	Cuvette	
Cuvette Dimensions	12.5x12.5x45mm; Z-Height: 8.5mm	
Light source	LED	
Wavelength range	600±8nm	
Absorbance range	0 ~ 4A	

Fluorescence detection

Sample Holder Type	0.5mL PCR Tube	
	(with PCR Tube Holder for Cuvette Slot)	-
Excitation filters	wavelength 435-485nm	-
Emission filters	wavelength 530-560nm	-
Limit of detection	dsDNA:0.5pg/μL	-
Linear dynamic range	R²≥0.995	-
Repeatability	≤1.5%	-

Dimensions and Weight

Dimension (W x D x H)	318x220x205mm	
Weight	4.1kg	

Applications

Used in the detection of micro-volume quantities of nucleic acids, proteins, chemical substances and liquids in laboratory, food industries, chemistry, microbiology, medicine research and development.



Microvolume Spectrophotometer (UV-Vis)

The Microvolume spectrophotometer (UV-Vis) with built-in 7-inch color touch screen, can accomplish all detection functions without connecting to a computer. The device comes with an intuitive user interface, and the compact design saves valuable laboratory space. The device has wide application in molecular biological experiments, such as DNA, RNA, protein detection.



Micro volume samples low to 0.5µL



Fastest detection time: 5 seconds



Wider detection concentration range 0.2-27500ng/µL

FEATURES

Wide detection range

With a 0.03 mm minimum detection path length, the maximum detection concentration of the device is as high as 27,500 ng/ μ L, and the minimum detection concentration as low as

0.2 ng/μL dsDNA.

Stable and reliable detection value

Stable and Accurate detection for both low and ultra-high concentrations.

Four models to choose from

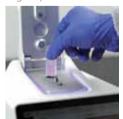
You can choose either full wavelength or the fixed wavelength models with micro volume measurement and two other models with an additional cuvette module. The cuvette module has a heated stirring function.

Large size color touch screen

A large 7-inch high-resolution color touch screen with intuitive UI enables to easily perform detection and analyze results.

Indication Lights

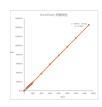
A lighting strip around the test area flashes to indicate different test stages.











Model	Nanoc-3100	Nano-3100	Nanoc-2100	Nano-2100
Detector	2048-element CCD linear image sensor			
Light Source	Xenon flash lamp			
Minimum Sample Volume(uL)	0.5			
Pathlength(mm)	0.	03, 0.05, 0.1, 0.2	2, 1.0 auto-rangin	ıg
Wavelength Upgrade	NA Available			
			Default 230,260	
Wavelength Range(nm)	185	5-910	Optional:Customizable to any fixed wavelength between	
			185-910 nm	III Detween
Wavelength Accuracy(nm)		±1		
Spectral Bandwidth		≤1.8(FWHM a	t Hg 253.7nm)	
Photometric(Abs)			n equivalent)	
Measurement Repeatablity	0.002(1mm path), or 1% CV, whichever is greater			greater
Photometric Accuracy		6A at 257nm)		4 at 350nm)
Limit of Detection	Pedestal: 2ng/uL dsDNA, 0.06mg/mL BSA, 0.03mg/mL IgG			
Maximun Concentration	Pedestal: 27,500ng/uL dsDNA, 820mg/mL BSA, 400mg/mL lgG			
Measurement Time(S)				
Cuvette Temperature(°C)	37±0.5	NA	37±0.5	NA
Cuvette Stirring Speed	10-900RPM 10 levels, adjustable	NA	10-900RPM 10 levels, adjustable	NA
Cuvette Photometric range	0-1.5A (10mm)	NA	0-1.5A (10mm)	NA
Cuvette Limit of Detection	0.2ng/µL dsDNA 0.006mg/mL BSA 0.003mg/mL lgG	NA	0.2ng/µL dsDNA 0.006mg/mL BSA 0.003mg/mL lgG	NA
Display	7 inch,1280x800high-definition LCD, Multipoint capactive touch,Gesture recognition			
Operating System	Android			
Internal Storage	8GB flash memory			
PC system Requirements	Windows 7:32/64 bit,Windows8/10:64 bit			
Data communications	USB,Wifi			
Power Supply	AC110V-220V, 50Hz/60Hz(power adapter)			
Net Weight	2.3kg	2.2kg	2.3kg	2.2kg

Microplate Reader

The Microplate Reader comes with high-quality photometer and combined with a powerful built-in software provides accurate and reliable results. A big 7-inch color touch screen with intuitive user interface enables easy settings and analysis. The Microplate reader is ideal for qualitative and quantitative ELISA applications.

FEATURES

- Wide wavelength ranging from 340nm to 850nm
- Accurate: $\pm 1\%$ (0-3 Abs) or \pm 0.003 Abs (whichever is greater at 405nm)
- 8 filters wheel with three preset filters
- Fast reading of both 96 well and 384 well microplates
- Shaking function and incubation (RT+4°C to 50°C) for temperature critical assays
- 7" colorful touch screen with intuitive user interface
- High quality photodetector from Hamamastu
- USB port for easy data transfer



Accuracy: high-end optical system to ensure accuracy

The device offers a wide detection range from 340-850 mm wavelength. The detection results of each band are accurate and stable and can be used in a variety of applications.

Self-diagnostics:

The device runs diagnostics on start-up, and the built-in self-diagnostic program detects the position of the microplate, and the stability of optical components.

Large colorful LCD touch screen for ease of use

7-inch colorful capacitive touch screen enables easy settings and analysis. The User Interface is designed to be intuitive and user friendly and features large Icons. Up to three shortcuts can be setup for customized protocols, enabling quick launch of the protocols

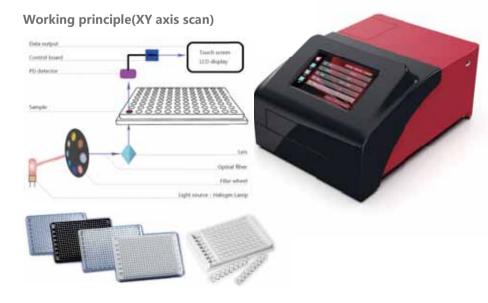
Functions include:

- Main Menu: Protocol, Plate Format, Measurement, Shaking, Incubation
- Results: Raw data, Calculated Results, Calibration Data, Quality Control, Results List
- Settings: System, Filters, Printer, Startup.

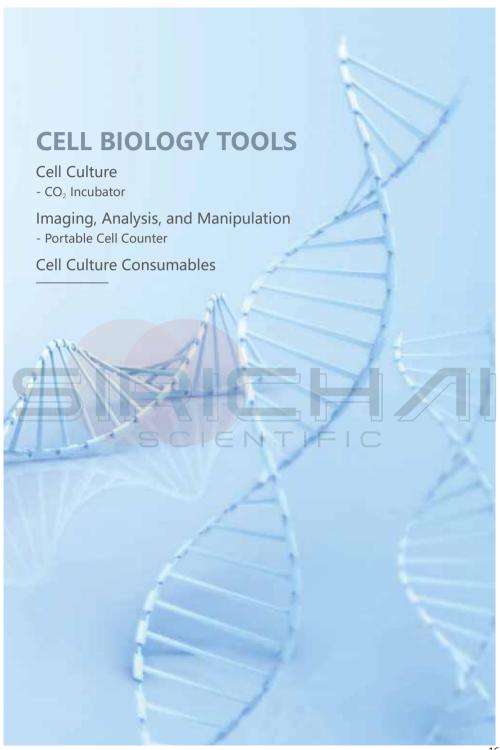
Application

- Immunoassays(ELISA)
- protein assays: BCA, Lowry, Bradford
- Endotoxins
- cytotoxicity and proliferation assays
- Enzyme assays
- Growth curves





SPECIFICATIONS		
Model	MMR-800	
Plate Type	96-well and 384-well plates (max height:15.3mm)	
Light Source	Quartz-halogen lamp	
Detector Type	Photo detector	
Wavelength Selection	Filters (340-850nm)	
Eth. I I	8 filters wheel; Filters installed: 405nm,450nm,and	
Filters wheel	620nm.Additional filters can be ordered separately.	
	340/375/414/492/520/530/540/550	
Optional filters	560/570/595/630/650/690/740/750/820	
Half-bandwidth of filters	8±2	
	0-3 Abs, ± 2% at 405nm, 96-well plate	
Linearity	0-2.5Abs, ±2%, at 405nm, 384-well plate	
Read-out Range	0 to 6Abs	
Resolution	0.001Abs	
Accuracy	\pm 1% (0-3 Abs) or \pm 0.003 Abs, whichever is greater at 405nm	
Precision	CV ≤ 0.2% (0.3-3 Abs) at 405nm	
Shaking	Linear shaking with three modes:slow, medium,fast	
	7 seconds, 96-well plate, fast mode	
Measurement Speed	13 seconds, 96-well plate, normal mode	
Measurement speed	13 seconds, 384-well plate, fast mode	
	34 seconds, 384-well plate, normal mode	
Optional incubator	Temperature range from ambient + 4°C up to 50°C	
Display	7' colorful touch screen	
Interface	USB port for data transfer, USB port for printer	
Power supply	100-240V (50/60HZ) with the adapter	
External printer type	HP PCL5, PCL5c, PCL5e	
Size (LXWXH)	400×290×220mm	



CO₂ Incubator



FEATURES

- Six-sided heating to ensure uniform temperature and faster heating
- Infrared CO₂ sensor is high temperature-resistant and ensures accuracy
- Heated door prevents condensation water
- 180° high temperature sterilization
- \bullet 7-inch large touchscreen, real-time display of temperature, humidity, CO₂ concentration, O₂ concentration (optional), operation status bar, alarm, etc.
- Parameter can be viewed as charts
- The circulation fan accelerates the air circulation in the chamber so that the temperature and CO₂ concentration can quickly recover to the previous level after door opening
- Simple structure, compact, easy and quick disassembly and installation of components like shelves in the chamber
- Equipped with HEPA filtration, highly effective filtration of microorganisms
- Standard package is equipped with an inner door of a whole glass design and 3 shelves (Optional inner door with 3 segments and other inner door with 6 segments)

- Stainless steel mirror inner chamber with rounded angle design makes it easy to clean
- Comes with a water tray that is convenient to remove
- Multiple alarms for safe operation: CO₂ concentration alarm, high & low temperature alarm, door-open alarm, O₂ concentration alarm (optional), humidity alarm, low water level alarm (optional)
- The gas inlet outside the chamber has an easy-to-replace filter to filter the gas before entering the chamber
- The temperature is PID-controlled

SPECIFICATIONS		
Model	ICO170 (Standard)	
Heating Method	Direct heat + Air jacket	
Capacity	170L	
Input Voltage	110V/220V 50/60HZ	
Power(standard configuration)	<60W/H(37°C)	
Power (high temperature sterilization)	<1500W/H(180°C)	
Convection	Fan	
Heat Insulation	Foam	
Display	7-inch touchscreen	
Disinfect	180°C high temperature disinfection (HTD)	
Chamber Humidity	95±5% R.H. (Relative Humidity)	
Inner door material	Tempered glass	
Access port (for cables etc.)	Inner diameter 30mm	
Noise	< 50dB	
	CO ₂ concentration alarm, high & low temperature alarm,	
Alarm	door-opening alarm, humidity alarm, low water level	
	alarm (optional), O ₂ concentration alarm (optional)	
Data transfer	USB, Ethernet port	
Upgrade method	Wireless or Cable	
Inner dimensions	557x518x597mm	
Outer dimensions	718x744x956mm	
Weight (accessories excluded)	≤80KG	
Ten	nperature Control	
Temperature range	Ambient+3°C~55°C (ambient: 5°C ~ 35°C)	
Temperature controller	PID	
Temperature uniformity at 37°C	±0.3°C	
Temperature stability at 37°C	±0.1°C	
Temperature Recovery Time (recover to 37°C after 30s door-opening)	< 5 minutes	

CO ₂ Control			
CO ₂ sensor	Dual IR sensor		
CO ₂ concentration range	0-20%		
CO₂ accuracy	±0.1 %		
CO ₂ concentration recovery time (recover to	< 4 minutes		
5% after 30s door-opening)	2 + minutes		
HEPA filter	Filter 99.97% of 0.22µm foreign particles		
CO ₂ connector	8mm tube (inner diameter)		
CO ₂ pressure	0.1MPa		

Configurable Features

Door handle location	Left / Right		
Wheel type	Optional Caster (size: 40mm)		
Chamber Material	Standard: 304 Stainless Steel / Optional: Copper		
Number of shelves	Standard: 3 / Optional: 6 or 10		
Number of inner doors	Standard: Unsegmented inner door Optional: 3 or 6-segmented inner doors		
Humidification	Standard: Passive humidification water tray Optional: Active humidification external humidity reserve		
Water level monitor in the water tray	Optional		
Tri-Gas	Optional		

O₂ Control (optional)

O ₂ sensor	Zirconia
O ₂ concentration range	1~21%
O_2 accuracy	0.10%
O ₂ connector	8mm tube (inner diameter)
O ₂ pressure	0.1MPa





Portable Cell counter——CytoCube

CELL BIOLOGY TOOLS — Portable Cell Counter

- One Step Counting
- Fast, Small and Compact
- Highly Accurate Cell Counts
- LED lights for Slot indication
- Compatible with multiple cell morphologies
- Cell count and viability measurements with Trypan blue stain
- Advanced algorithm automatically filters cell debris and background noise

Cell concentration	1×10 ⁴ - 3×10 ⁷ /ml	Measuring time for	2s	
Cell diameter range	8-200 µm	a single sample		
Cell viability detection range	0-100%	Samples slots in one slide	6	
Sample volume	25 μΙ	Weight	1.8kg	
CV value	≤5%	Data output	USB	
Consumables	6-slot counting slide	Dimension	255 x 164 x 97mm	

Compact Design

Ease of use / One-step Operation

- It takes only 2s to measure a sample.
- A slide can hold 6 samples.







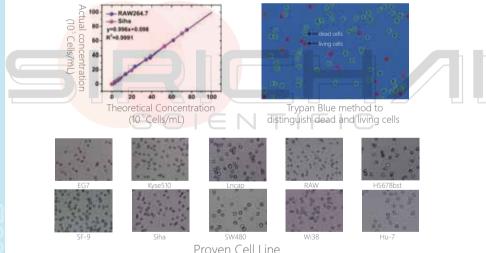
Add sample

Insert the slide

One-click Analysis

Reliability Designed for accurate and reliable cell counting

- 5-megapixel color CMOS for image capture
- Corresponding indicator turns on after sample introduction and ensures properimaging field and data capture.
- Optimized optical path provides excellent image quality.



Excellent User Experience

User-friendly software interface

- Thorough detection of concentration, viability, diameter and roundness of total cells
- User level management system:
 Different administrative level permission maintains data confidentiality.
- Multiple formats for exporting data including PDF, EXCEL and JPG to meet different requirements of users.

Cell Culture Consumables

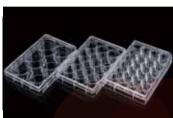
All cell culture dishes, plates, and flasks are:

DNase/RNase-free, Pyrogen-free; 100% virgin polystyrene, sterilized; Tissue Culture (TC) treated



Cell Culture Dishes

• 100x10mm, 60x15mm, 35x10mm available



Cell Culture Plate

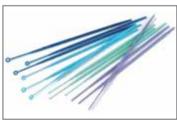
• 6, 12, 24, 48, 96 well options available



Cell Culture Flasks

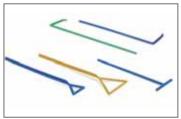
- 25, 75, and 175 cm² options available
- Vented cap with a 0.22µm hydrophobic membrane





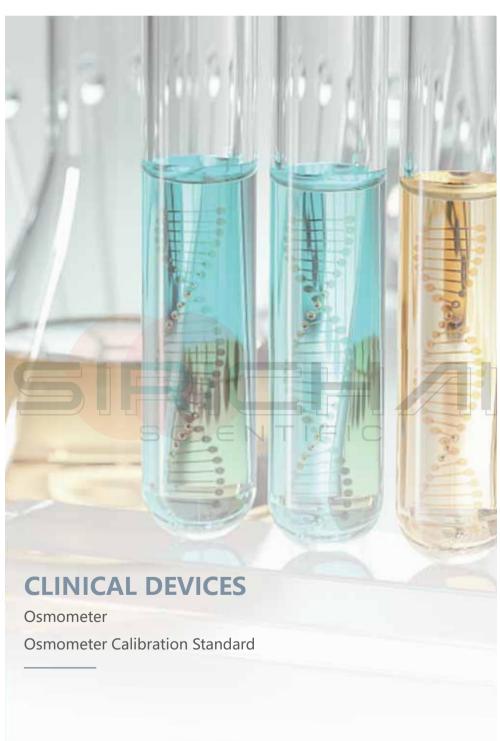
Inoculating Loops

- 1µL, 5µL, 10µL options available
- Polystyrene material, with rigid or soft options
- Quad loop options available



Cell Spreaders

- L-shaped, T-shaped, Triangular options
- Polystyrene material



CES

Clinical Devices — Freezing Point Osmometer

OSM100100 Osmometer measures the total osmolality of any aqueous solution, using Freezing Point Depression method.

FEATURES

- Built-in large touch screen for intuitive operation of the instrument.
- High-precision sensor guarantees accurate measurements & repeatability.
- Molar concentration, freezing point, molar concentration ratio measured.
- Multipoint calibration (2 or more points) with any standard concentration.
- Refrigerant-free cooling and therefore less maintenance requirement.
- Micro-computer controller can automatically process and store data.
- Dual refrigeration system for faster cooling and continuous testing.
- Small sample quantity requirement for testing.
- Built-in printer with multiple printing format settings.

CONSUMABLE REQUIRED

Four E's 0.5ml Sample Tube or Axygen PCR Tube (PN: PCR-05-C)





Model	OSM100100
Single or Batch	Single
Throughput	1 sample
Calibration Point	2 or more points
Sample Volume required	60µl
Range	0~3000 mOsm/kg
Accuracy	±2 mOsm/kg(≤ 400 mOsm/kg), ±1.0%(>400 mOsm/kg)
Test time	< 2min 30sec/run
Connectivity	Built-in printer, RS232
Language	English
Consumables	Four E's 0.5ml sample tube or Axygen PCR-05-C
Dimension	23cm×21cm×36 cm

Clinical Devices —

Osmometer Calibration Standards

Manufactured to IVD grade standards with meticulous precision, our calibration standards ensure precise and consistent results. Our product provides the perfect solution for accurate calibration and reliable performance in a variety of diagnostic and research applications.

• Number of Ampules: 10x1mL

•For IVD and Research: Yes

•COA and COC: Yes

•Dimensions: 140 x 65 x 17mm

•Weight: 0.045kg



0 mOsm/kg	50 mOsm/kg	100 mOsm/kg
PN: 3MA0004ES	PN: 3MA0054ES	PN: 3LA0114ES
290 mOsm/kg	300 mOsm/kg	400 mOsm/kg
PN: 3MA0294ES	PN: 3MA0034ES	PN: 3MA0404ES
500 mOsm/kg	850 mOsm/kg	900 mOsm/kg
PN: 3LA0514ES	PN: 3MA0854ES	PN: 3LA0914ES
1500 mOsm/kg PN: 3LA1514ES	2000 mOsm/kg PN: 3MA2004ES	100- 2000 mOsm/kg Linearity Set PN: 3LA0284ES



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Date: 2024.11.08 Version: V3.0