



Comprehensive Range of Liquid & Fluid Handling Solutions



EXPERIENCE PRECISION

EXPERIENCE PRECISION



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▶ AQUA Single, Multi Channel & Variable Spacing Electronic Pipette

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ABOUT US

At Microlit, we place a strong emphasis on research and development resulting in our products being awarded multiple technology patents and international design accolades. As a testament to our commitment towards quality, we hold certifications such as ISO 9001, ISO 13485, ISO 17025 and CE, ensuring that our customers receive products of the highest quality. We endeavour to continuously strive to push the boundaries of innovation, enhance laboratory efficiency and contribute to advancements in scientific research and diagnostics. Thank you for choosing Microlit. We look forward to serving you.



OUR VISION

To be the preferred choice of high precision liquid handling instruments for leading labs of the world.

OUR MISSION

To provide liquid handling instruments with higher precision and accuracy than ISO standards in real lab conditions.

To develop products that are durable and easy to use with high levels of consistency.

To assist our users in making the most efficient and productive use of our instruments.



OUR CORE VALUES

We are a growing family of 200 people from diverse backgrounds, both culturally and academically. Our shared set of core values serves as a key to keeping us united and motivated. Like the stepping stones, they guide our way forward and represent the essence of who we are as an organisation and how we believe in crafting and offering positive experiences to our customers.

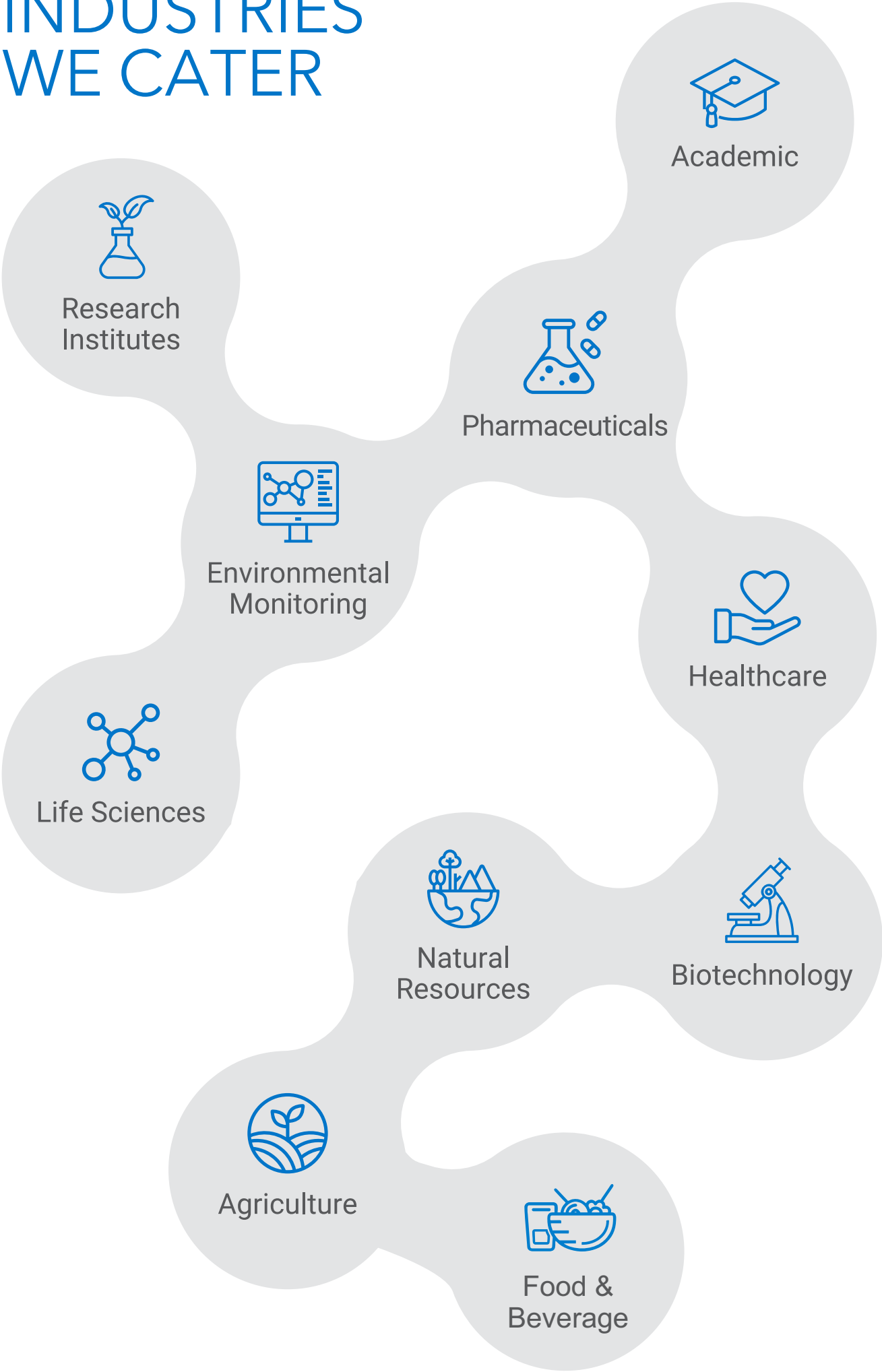


OUR JOURNEY

Microlit's awe-inspiring journey of 34 years, brimming with emotions and triumphs, is best illustrated through the key milestones attained in the last two decades.



INDUSTRIES WE CATER



CERTIFICATES & AWARDS

Technology Patents

- ▶ Dual Inlet® Technology in **ULTIMUS Bottle Top Dispenser** : Indian Patent No. 429954
- ▶ UniCal® Technology in **NERO® Micropipette**: Indian Patent No. 405607
- ▶ Solenoid Valve in **EASYAID**: Patent Filed

Registered Trademarks

- ▶ EasyKnob® in Bottle Top Dispensers: 3746416
- ▶ NERO® Micropipette: 4655491
- ▶ LENTUS® Bottle Top Dispenser for HF: 4503154
- ▶ µAir® in NERO® Micropipette: 4787901
- ▶ FlexiNozzle® in Bottle Top Dispensers: 3746415
- ▶ Springless Valve® in Bottle Top Dispensers: 3746412
- ▶ DripSafe® in Bottle Top Dispensers: 3746414
- ▶ UniCal® in NERO® Micropipette: 4655488

Company Awards

- ▶ ET Now Leaders of Tomorrow Award 2025 (Global Business Leadership)
- ▶ CII Industrial Innovation Award 2022 (Top 50 Companies in India)
- ▶ CII Industrial Innovation Award 2021 (Top 25 Companies in India)
- ▶ CII Industrial Innovation Award 2020 (Winner in Manufacturing - Small Enterprise Category)
- ▶ CII Industrial Innovation Award 2020 (Top 25 Companies in India)
- ▶ INDIA SME Top 100 Award 2017
- ▶ CII Industrial Innovation Award 2016 (Top 25 Companies in India)

Product Awards

- ▶ India Design Mark: Good Design Award 2021 – NERO Micropipette
- ▶ India Design Mark: Good Design Award 2019 – LILPET PRO
- ▶ Japanese Good Design Award 2019 – LILPET PRO
- ▶ GermanACHEMA Innovation Award 2018 – ULTIMUS Bottle Top Dispenser
- ▶ India Design Mark: Good Design Award 2018 – E-BURETTE
- ▶ Japanese Good Design Award 2017 – ULTIMUS Bottle Top Dispenser
- ▶ India Design Mark: Good Design Award 2017 - ULTIMUS Bottle Top Dispenser
- ▶ India Design Mark: Good Design Award 2016 – BEATUS Bottle Top Dispenser



ISO 9001 Certificate



ISO 13485 Certificate



CE Certificate Micropipette & Bottle Top Dispensers



ISO 17025 (NABL) Certificate



CE Certificate of Electronic Pipette Filler (EASYAID and EASYFILL)



CE Certificate E-Burette

OUR MANUFACTURING FACILITY

Microlit has an State-of-the-Art manufacturing facility with three injection molding machines with all its auxiliary equipments for molding of various components of Microlit's products. With international offices in USA and Brazil, Microlit proudly supplies its products to over 95+ countries, collaborating with a network of 500+ active distributors. This extensive reach allows Microlit to serve a diverse global customer base and ensures availability of its high-quality liquid handling products across various industries.

Plasticus products are manufactured in a Microlit controlled and monitored ISO 14644-1:2015 Certified 100K Clean Room Molding Unit with State-of-the-art Automation to ensure DNase and RNase free products.



OUR PRODUCT RANGE



BOTTLE TOP DISPENSERS



SCITUS

Bottle Top Dispenser

Explore new possibilities with Microlit SCITUS Bottle Top Dispenser, a simple yet effective solution for safe and precise chemical dispensing in sophisticated laboratories. Designed to fit any budget, SCITUS is equipped with award-winning technologies like Springless Valve®, EasyKnob®, and Flexi Nozzle® for wide chemical compatibility and unparalleled convenience. Experience safety, accuracy, and convenience at its finest.

- 

Springless Valve® for A Wider Chemical Compatibility And Leakage Free Dispensing
- 

EasyKnob® For An Effortless Volume Adjustment
- 

FlexiNozzle® For Adjusting The Dispensing Angles
- 

High Chemical Compatibility with Inert Materials Like PTFE, PFA & Borosilicate Glass
- 

Six Adapters Ensuring Fitment with Most of Reagent Bottles
- 

Telescoping Inlet Tube for Bottles of Various Sizes
- 

Fully Autoclavable at 121°C at 15 Psi for a duration of 15-20 mins
- 

Work Flexibly with a 360° Adapter

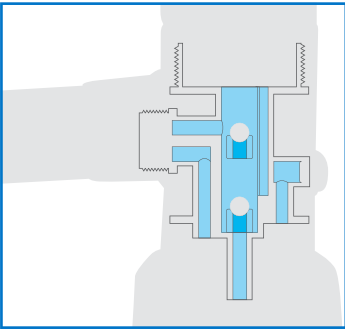


EasyKnob® For A Stress-free Work Experience



Introducing EasyKnob® by Microlit incorporated in all Bottle Top Dispensers. With its logical and user-friendly design, this unique volume adjustment knob turns only 180°, providing a hassle-free experience. Unlike the traditional screw-type volume adjustment knob, EasyKnob® eliminates breakage issues, unlocking difficulties and repetitive strain injuries (RSI). Enjoy the durability and ease-of-use of this unbreakable knob.

Enhance Your Productivity With Springless Valve®



Discover the unrivaled Springless Valve® technology of Microlit Bottle Top Dispensers, revolutionizing your chemical dispensing experience. Our vertically integrated inlet and outlet valve system operates without springs, relying on the force of gravity for a superior performance. Enjoy an extensive chemical compatibility without the need of exploring different dispensers owing to metal and chemical reactivity. Bid farewell to potential leakages caused by chemical deposition on traditional dispenser springs. Springless Valve® ensures a leakage free and seamless dispensing experience, making the Microlit Bottle Top Dispensers the preferred choice across various industries.

Specifications and Ordering Information

Model No.	Vol. Range	Increment	Accuracy		CV	
			±%	±ml	±%	±ml
SCI-2.5	0.25-2.5 ml	0.05 ml	0.5	0.0125	0.2	0.005
SCI-5	0.5-5 ml	0.1 ml	0.5	0.025	0.2	0.010
SCI-10	1-10 ml	0.2 ml	0.5	0.050	0.1	0.010
SCI-30	2.5-30 ml	0.5 ml	0.5	0.150	0.1	0.030
SCI-60	5-60 ml	1.0 ml	0.5	0.300	0.1	0.060
SCI-100	10-100 ml	1.0 ml	0.5	0.500	0.1	0.100

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Assured Quality with ISO 8655 Conformed Calibration

This product is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards. A calibration certificate is included inside the product package. A calibration tool is also included for quick in- lab re-calibration.

BEATUS

Bottle Top Dispenser

Introducing BEATUS, a globally recognized Bottle Top Dispenser to fulfill most of your chemical handling needs. BEATUS ensures secure and accurate chemical dispensing, making it an efficient solution for various applications. Its standout feature is the Recirculation Valve, which intelligently directs the reagent back to the source bottle, allowing for quick purging and offering an additional layer of safety in diverse scenarios. BEATUS is also equipped with cutting-edge trademark registered technologies such as the Springless Valve®, EasyKnob®, and Flexi Nozzle®, ensuring compatibility with the widest range of chemicals and delivering unparalleled convenience. Experience the excellence of BEATUS for yourself.

- 

Springless Valve® for A Wider Chemical Compatibility And Leakage Free Dispensing
- 

EasyKnob® For An Effortless Volume Adjustment
- 

Recirculation Valve For Directing The Reagent Back To The Source Bottle
- 

High Chemical Compatibility with Inert Materials Like PTFE, PFA & Borosilicate Glass
- 

FlexiNozzle® for Adjusting the Dispensing Angles
- 

Six Adapters Ensuring Fitment with Most of Reagent Bottles
- 

Telescoping Inlet Tube For Bottles of Various Sizes
- 

Fully Autoclavable at 121°C at 15 Psi for a duration of 15-20 mins

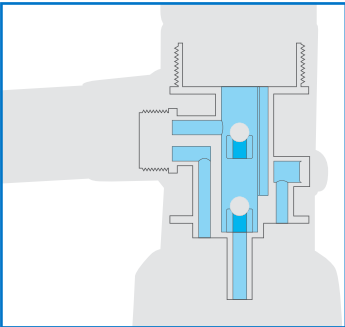


Purge & Avert Unintended Dispensing with Recirculation Valve



The Recirculation Valve offers users a convenient and economical solution for purging processes. By activating this valve, the reagent is directed back into the bottle, enabling the user to eliminate air from the dispenser while minimizing wastage. Additionally, the Recirculation Valve serves as a safety feature, effectively preventing any unintentional dispensing accidents. In cases where the user mistakenly aspirates liquid into the dispenser due to incorrect volume settings, the recirculation valve comes handy by allowing the reagent to be returned to the source bottle.

Enhance Your Productivity With Springless Valve®



Discover the unrivaled Springless Valve® technology of Microlit Bottle Top Dispensers, revolutionizing your chemical dispensing experience. Our vertically integrated inlet and outlet valve system operates without springs, relying on the force of gravity for a superior performance. Enjoy an extensive chemical compatibility without the need of exploring different dispensers owing to metal and chemical reactivity. Bid farewell to potential leakages caused by chemical deposition on traditional dispenser springs. Springless Valve® ensures a leakage free and seamless dispensing experience, making Microlit Bottle Top Dispensers the preferred choice across various industries.

Specifications and Ordering Information

Model No.	Vol. Range	Increment	Accuracy		CV	
			±%	±ml	±%	±ml
BEAT-2.5	0.25-2.5 ml	0.05 ml	0.5	0.0125	0.2	0.005
BEAT-5	0.5-5 ml	0.1 ml	0.5	0.025	0.2	0.010
BEAT-10	1-10 ml	0.2 ml	0.5	0.050	0.1	0.010
BEAT-30	2.5-30 ml	0.5 ml	0.5	0.150	0.1	0.030
BEAT-60	5-60 ml	1.0 ml	0.5	0.300	0.1	0.060
BEAT-100	10-100 ml	1.0 ml	0.5	0.500	0.1	0.100

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Assured Quality with ISO 8655 Conformed Calibration

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ULTIMUS

Bottle Top Dispenser

To ensure the longevity of the internal wetted components and prevent potential damage, it is advisable to rinse a Bottle Top Dispenser regularly with distilled water after dispensing strong acids. However, traditional dispensers require removal from the bottle for rinsing, which demand time, efforts and a compromise with safety. ULTIMUS Bottle Top Dispenser addresses this challenge with its patented Dual Inlet® Technology that enables users to perform rinsing without removing the dispenser from the acid bottle. This unique patented technology also allows for Dilution, Bottle Refilling, and the convenience of Multi Chemical Dispensing. With ULTIMUS, users can streamline their processes and enjoy the benefits of efficient rinsing and versatile dispensing capabilities.

- 

EasyKnob® For An Effortless Volume Adjustment
- 

Dual Inlet® Technology - Perform Rinsing, Dilution, Bottle Refilling, and Multi Chemical Dispensing
- 

High Chemical Compatibility with Inert Materials Like PTFE, PFA & Borosilicate Glass
- 

FlexiNozzle® For Adjusting The Dispensing Angles
- 

Six Adapters Ensuring Fitment with Most of Reagent Bottles
- 

Four Caps For The Second Reagent Bottle
- 

Telescoping Inlet Tube For Bottles of Various Sizes
- 

Fully Autoclavable at 121°C at 15 Psi for a duration of 15-20 mins



Enhance Your Productivity with Four Modes of Operation



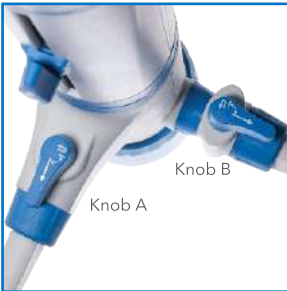
Standard Dispensing:
Knob A - Open
Knob B - Closed

In this mode, the dispenser dispenses the liquid normally into the receiver from the bottle it is mounted on.



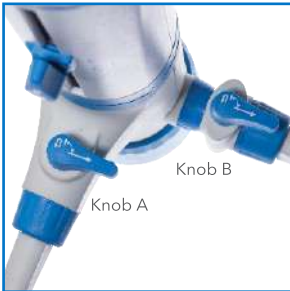
Purging:
Knob A - Closed
Knob B - Closed

In this mode, the liquid is re-circulated into the same bottle on which the dispenser is mounted. This process removes the air from the dispenser, without wasting any reagent.



Dilution/Rinsing/Second Liquid Dispensing:
Knob A - Open
Knob B - Open

In this mode, the liquid from a second source can be dispensed into the receiver. The second liquid can be distilled water, thus allowing the user to rinse the instrument without dismounting it or dilute the reagent within the receiver.



Bottle Refilling:
Knob A - Closed
Knob B - Open

In this mode, the liquid from a second source can be used to refill the bottle without dismounting the dispenser.

Specifications and Ordering Information

Model No.	Vol. Range	Increment	Accuracy		CV	
			±%	±ml	±%	±ml
ULT-2.5	0.25-2.5 ml	0.05 ml	0.5	0.0125	0.2	0.005
ULT-5	0.5-5 ml	0.1 ml	0.5	0.025	0.2	0.010
ULT-10	1-10 ml	0.2 ml	0.5	0.050	0.1	0.010
ULT-30	2.5-30 ml	0.5 ml	0.5	0.150	0.1	0.030
ULT-60	5-60 ml	1.0 ml	0.5	0.300	0.1	0.060

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Assured Quality with ISO 8655 Conformed Calibration

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LENTUS[®]

Bottle Top Dispenser for Hydrofluoric Acid and High Purity Media and for Trace Analysis

When it comes to dispensing Hydrofluoric Acid (HF Acid), regular dispensers with glass components are not suitable due to the acid's reaction with glass. HF Acid dissolves glass by attacking the silicate compounds present in its composition. Microlit LENTUS[®] Bottle Top Dispenser provides the perfect solution for handling this hazardous substance. LENTUS[®] is designed without any glass components and is constructed using tested materials such as PTFE, FEP, and Ceramics, which can withstand the corrosive nature of Hydrofluoric Acid. Additionally, LENTUS[®] features a Springless Valve[®] that enhances its chemical compatibility, making it a versatile and universally compatible dispenser. With LENTUS[®], users can safely and effectively handle HF Acid without compromising on quality or safety.



Compatible with HF & High Purity Acids



Suitable for Trace Analysis



White & Grey Colour Scheme To Differentiate From Other Microlit Dispensers



EasyKnob[®] For An Effortless Volume Adjustment



Recirculation Valve For Directing The Reagent Back To The Source Bottle



Springless Valve[®] Made With Alumina Ceramic for Compatibility with HF and High Purity Acids



Fluoroethylene Polypropylene (FEP) Barrel For HF Compatibility



Fully Autoclavable at 121°C at 15 Psi for a duration of 15-20 mins



LENTUS[®] Bottle Top Dispenser



The usage of Hydrofluoric Acid Handling finds diverse applications across industries, including serving as an intermediate in chemical reactions, producing organofluorines, rust removal and inhibition, metal extraction and refining, glass and silicone etching, and more.

LENTUS[®], a perfect instrument to safely and precisely dispense Hydrofluoric Acid, finds its usage and demand in the following industries:-

- ▶ Glass Industry

▶ Oil and Gas

▶ Pharmaceutical

▶ Metal Pickling

▶ Clinical Diagnostics

▶ Mining

▶ Cosmetics

▶ Uranium/Atomic Energy
- ▶ Pesticides and Fertilizers

▶ Polymer Manufacturing

▶ Earth Sciences (Geology)

▶ Environmental Testing

▶ Food & Beverage Testing

▶ Semiconductor Testing

▶ Chemicals Manufacturing

▶ Consumer Products (FMCG)

Specifications and Ordering Information

Model No.	Vol. Range	Increment	Accuracy		CV	
			±%	±ml	±%	±ml
LNT-HF-2.5	0.25-2.5 ml	0.05 ml	0.5	0.0125	0.2	0.005
LNT-HF-5	0.5-5 ml	0.1 ml	0.5	0.025	0.2	0.010
LNT-HF-10	1-10 ml	0.2 ml	0.5	0.050	0.1	0.010
LNT-HF-30	2.5-30 ml	0.5 ml	0.5	0.150	0.1	0.030
LNT-HF-60	5-60 ml	1.0 ml	0.5	0.300	0.1	0.060

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Assured Quality with ISO 8655 Conformed Calibration

This product is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards. A calibration certificate is included inside the product package. A calibration tool is also included for quick in- lab re-calibration.

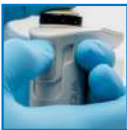
MICROPIPETTES



AQUA

Single, Multi Channel (8 & 12 Channel) and Variable Spacing Pipette (4, 6, 8 & 12 Channel)

Microlit's AQUA electronic pipettes are equipped with sophisticated electronic control systems, offering high accuracy and reproducibility in liquid dispensing tasks. One of the standout features of the AQUA series is its ergonomic design, which is designed to reduce user fatigue during prolonged use. The lightweight construction and comfortable grip ensure ease of handling, which is crucial for maintaining accuracy over extended periods. These pipettes come with multiple operating modes, including pipetting, mixing and stepper functions, providing versatility for various experimental needs.

	External Detachable Rechargeable Battery		Internal Storage Memory
	Speed Selection Mode		Comfortable Grasping With Ergonomic Design
	4/6/8/12 Channel Variable Spacing covers 4.5 mm to 26 mm.		Adjustment Wheel
	Large Easy-To-Read Display		Soft Keys For Programming
	Tip spacing helps move multiple samples across formats		304 Grade Stainless Steel Tip Cone
	Linear Stepping Motor System		Protect user from Repetitive Strain Injury (RSI)

AQUA

Single, Multi Channel (8 & 12 Channel) and Variable Spacing Pipette (4, 6, 8 & 12 Channel)

Microlit's AQUA electronic pipettes offer a blend of advanced technology, ergonomic design and user-friendly operation to support a wide range of scientific research and clinical applications. This is a multi-functional electronic volumetric pipette designed to measure and transfer liquids precisely and safely. It can measure and transfer volumes from 0.1 μ L to 10000 μ L depending on various models. These are available in Single Channel, Multichannel (8-channel and 12-channel) and Variable Spacing (4/6/8/12 Channel) variants.



Single Channel

Multichannel
(8-channel and 12-channel)

Variable Spacing
(4/6/8/12 Channel)

Specifications and Ordering Information Chart of
AQUA Electronic Single Channel and Multi-Channel Pipette (8 & 12 Channel)

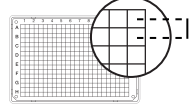
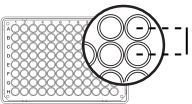
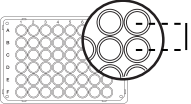
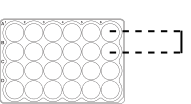
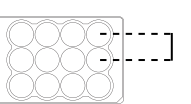
	Model No.	Vol. Range	Increment	Volume (µl)	Accuracy		CV	
					±%	±µl	±%	±µl
SINGLE CHANNEL	AQS-10	0.2-10µl	0.01µl	1	5.60	0.06	6.50	0.07
				5	1.50	0.08	1.50	0.08
				10	1.00	0.10	0.80	0.08
	AQS-20	0.5-20µl	0.1µl	2	4.00	0.08	4.50	0.09
				10	1.20	0.12	0.80	0.08
				20	1.00	0.20	0.50	0.10
	AQS-100	2-100µl	0.5µl	10	2.00	0.20	1.00	0.10
				50	0.80	0.40	0.30	0.15
				100	0.60	0.60	0.15	0.15
	AQS-200	5-200µl	0.5µl	20	2.50	0.50	1.00	0.20
				100	0.80	0.80	0.25	0.25
				200	0.60	1.20	0.20	0.40
	AQS-300	10-300µl	1µl	30	1.50	0.45	0.80	0.24
				150	0.60	0.90	0.20	0.30
				300	0.40	1.20	0.15	0.45
	AQS-500	10-500µl	2µl	50	1.60	0.80	0.70	0.35
				250	0.48	1.20	0.24	0.60
				500	0.40	2.00	0.16	0.80
	AQS-1000	50-1000µl	1µl	100	1.50	1.50	0.50	0.50
				500	0.50	2.50	0.20	1.00
				1000	0.40	4.00	0.15	1.50
	AQS-5000	0.1-5ml	10µl	500	1.00	5.00	0.40	2.00
				2500	0.50	12.50	0.20	5.00
				5000	0.50	25.00	0.15	7.50
8 - CHANNEL	AQE-10	0.2-10µl	0.1µl	8	2.50	0.20	2.00	0.16
				40	1.20	0.48	0.80	0.32
				80	0.80	0.64	0.40	0.32
	AQE-100	5-100µl	1µl	80	1.00	0.80	1.00	0.80
				400	0.40	1.60	0.24	0.96
				800	0.50	4.00	0.15	1.20
	AQE-300	10-300µl	1µl	240	0.75	1.80	0.80	1.92
				1200	0.70	8.40	0.20	2.40
				2400	0.50	12.00	0.15	3.60
12 - CHANNEL	AQT-10	0.2-10µl	0.1µl	12	2.50	0.30	2.00	0.24
				60	1.20	0.72	0.80	0.48
				120	0.80	0.96	0.40	0.48
	AQT-100	5-100µl	1µl	120	1.00	1.20	1.00	1.20
				600	0.40	2.40	0.24	1.44
				1200	0.50	6.00	0.15	1.80
	AQT-300	10-300µl	1µl	360	0.75	2.70	0.80	2.88
				1800	0.70	12.60	0.20	3.60
				3600	0.50	18.00	0.15	5.40

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Assured Quality with ISO 8655 Conformed Calibration

This product is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards.
A calibration certificate is included inside the product package.
A calibration tool is also included for quick in- lab re-calibration.

Specifications of AQUA Electronic Adjustable Spacing
Multi-Channel Pipette (4, 6, 8 & 12 Channel)

Tip Distance	384-Well Plate (Spacing 4.5 mm)	96-Well Plate (Spacing 9 mm)	48-Well Plate (Spacing 13 mm)	24-Well Plate (Spacing 19 mm)	12-Well Plate (Spacing 26 mm)
Vessel Graphical Representation					

	Model	Volume Range	Spacing	384-Well Plate (Spacing 4.5 mm)	96-Well Plate (Spacing 9 mm)	48-Well Plate (Spacing 13 mm)	24-Well Plate (Spacing 19 mm)	12-Well Plate (Spacing 26 mm)
4-CHANNEL	AQVF-12	0.5-12.5µl	9-26mm					
	AQVF-50	2-50µl						
	AQVF-110	5-110µl			✓	✓	✓	✓
	AQVF-300	10-300µl						
	AQVF-1000	50-1000µl						
6-CHANNEL	AQVS-12	0.5-12.5µl	9-19mm					
	AQVS-50	2-50µl						
	AQVS-110	5-110µl			✓	✓	✓	
	AQVS-300	10-300µl						
	AQVS-1000	50-1000µl						
8-CHANNEL	AQVE-12A	0.5-12.5µl	9-19mm					
	AQVE-50A	2-50µl						
	AQVE-110A	5-110µl			✓	✓	✓	
	AQVE-300A	10-300µl						
	AQVE-1000A	50-1000µl						
12-CHANNEL	AQVE-12B	0.5-12.5µl	4.5-14mm					
	AQVE-50B	2-50µl		✓	✓	✓		
	AQVE-110B	5-110µl						
	AQVT-12	0.5-12.5µl						
	AQVT-50	2-50µl		✓	✓			
	AQVT-110	5-110µl						

Volume Range	Channels	Increment	Accuracy		CV	
			±%	±µl	±%	±µl
0.5-12.5µl	4/6/8/12 Channels	0.1µl	20µl	0.25µl	10µl	0.125µl
		0.1µl	4µl	0.25µl	2µl	0.125µl
		0.1µl	2µl	0.25µl	1µl	0.125µl
2-50µl	4/6/8/12 Channels	0.5µl	20µl	1µl	8µl	0.4µl
		0.5µl	4µl	1µl	1.6µl	0.4µl
		0.5µl	2µl	1µl	0.8µl	0.4µl
5-110µl	4/6/8/12 Channels	0.5µl	16µl	1.76µl	6µl	0.66µl
		0.5µl	3.2µl	1.76µl	1.2µl	0.66µl
		0.5µl	1.6µl	1.76µl	0.6µl	0.66µl
10-300µl	4/6/8 Channels	1µl	16µl	1.6µl	6µl	0.6µl
		1µl	3.2µl	4.8µl	1.2µl	1.8µl
		1µl	1.6µl	4.8µl	0.6µl	1.8µl
50-1000µl	4/6/8 Channels	1µl	16µl	16µl	6µl	6µl
		1µl	3.2µl	16µl	1.2µl	6µl
		1µl	1.6µl	16µl	0.6µl	6µl

COLOUR CODING FOR EASY IDENTIFICATION

Single Channel / Multi Channel / Adjustable Spacing Electronic Pipette



Application Area	Single Channel	Multichannel (8/12 Channel)	Variable Spacing (4/6/8/12 Channel)
DNA/RNA Extraction	Individual sample handling	High-throughput extraction in plates	Transfer from tubes to plates or vice versa
PCR / qPCR Plate Setup	Accurate pipetting into few wells	Loading rows/columns in 96-/384-well plates	Format switching (e.g., strip tubes ↔ 96-well)
ELISA / Immunoassays	Sample/reagent addition to individual wells	Rapid plate filling	Transfer across formats (e.g., 96 → 384-well)
Serial Dilutions	Manual, precise stepwise dilutions	Parallel dilutions across rows	Flexible format dilution
Cell Culture / Seeding	Seeding few wells	Seeding multiple wells simultaneously	Transferring cells between flasks and plates
Drug Screening / HTS	Low-throughput compound addition	High-throughput screening in plates	Compound library reformatting
Clinical Diagnostics	Patient sample transfer	Multi-sample loading into test plates	Sample ID mapping between racks and plates
Protein / Enzyme Assays	Manual reagent addition	Simultaneous pipetting for multiple reactions	Cross-format reagent setup
Library Prep (NGS / Proteomics)	Manual sample prep	Plate loading in sequencing workflows	Transfer between tube racks and microplates
Environmental Sample Testing	Sample handling for few tests	Multiple sample loading	Tube-to-plate transfer for water/soil samples
Teaching / Training Labs	Good for basic pipetting training	Demonstrating high-throughput methods	Teaching flexibility in format handling
Reformatting Plates (e.g., 96→384)	Not suitable	Fixed spacing only	Ideal for reformatting between well formats
Sample Replication / Normalization	Manual and time-consuming	Fast duplication across rows/columns	Replication across formats
General Liquid Handling	Accurate individual transfers	Efficient for repetitive tasks	Adaptable for varying labware formats

NERO®

Single Channel Micropipette

NERO® is a revolutionary micropipette designed and engineered by Microlit's in-house team of product designers, to address the practical challenges encountered by laboratory users. With its patented UniCal® technology, NERO® facilitates effortless recalibration in a single step, eliminating the need for time-consuming and difficult hit and trial calibration method. Setting it apart even further is the µAir® technology, ensuring zero dead air space between the piston and the liquid, resulting in exceptional accuracy and repeatability. NERO® offers unparalleled convenience and precision, revolutionizing the pipetting experience in the laboratories across the globe. The India Design Mark 2021 awardee NERO® Micropipette has an captivating aesthetic appeal and a lot of functional advantages, which makes using this pipette a delightful experience.



Quick and Easy Recalibration with UniCal® Technology

Achieve High Accuracy and Precision with µAir® Technology

Effortless Pipetting with an Ultra Soft Plunger and 3-5N Force for 1st Step

Universal Tipcone for Fitment with all the Standard Tips

Minimalistic Design and Seamless Surface for Proper Cleaning

Spring & Ball Based Self-Locking Digital System

ISO 8655 Calibration in Microlit's ISO 17025 accredited NABL laboratory

Fully Autoclavable at 120° C at 15 psi for a Duration of 15-20 mins

COLOUR CODING FOR EASY IDENTIFICATION

Single Channel Fixed & Variable Volume Micropipette

NRO-2
NRO-F-1, F-2, F-5

NRO-10
NRO-F-10

NRO-20
NRO-F-20, F-25

NRO-50
NRO-F-50

NRO-100
NRO-F-100

NRO-200
NRO-F-200

NRO-1000
NRO-F-250, F-500, F-1000

NRO-5000
NRO-F-2000, F-5000

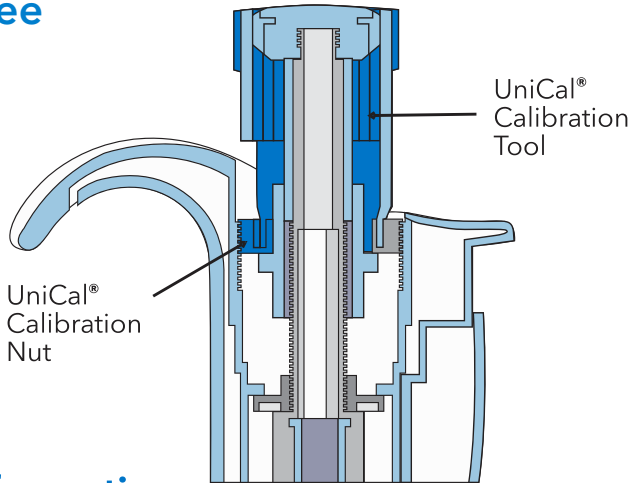
NRO-10000
NRO-F-10000

Colour-coding for different capacities facilitates easy identification during daily laboratory routine.

India Design Mark 2021 awardee "NERO® micropipette"

Has been granted patent for its unique calibration system, the UniCal® technology that allows quick in-lab calibration in a single operation without disengaging digits from plunger mechanism.

*Indian Patent No.: 405607



Specifications and Ordering Information

FIXED VOLUME MICROPIPETTE	Model	Volume Range µl	Accuracy		CV	
			±%	±µl	±%	±µl
	NRO-F-1	1.0	5	0.05	5	0.05
	NRO-F-2	2.0	4	0.08	2	0.04
	NRO-F-5	5.0	2	0.1	1	0.05
	NRO-F-10	10.0	1	0.1	0.5	0.05
	NRO-F-20	20.0	0.8	0.16	0.4	0.08
	NRO-F-25	25.0	0.8	0.2	0.4	0.1
	NRO-F-50	50.0	0.8	0.4	0.4	0.2
	NRO-F-100	100.0	0.6	0.6	0.2	0.2
	NRO-F-200	200.0	0.6	1.2	0.2	0.4
	NRO-F-250	250.0	0.6	1.5	0.2	0.5
	NRO-F-500	500.0	0.6	3	0.2	1
	NRO-F-1000	1000.0	0.6	6	0.2	2

VARIABLE VOLUME MICROPIPETTE	Model	Volume Range	Inc. µl	Accuracy		CV	
				±%	±µl	±%	±µl
	NRO-2	0.2-2.0 µl	0.004	2	0.04	1.2	0.024
	NRO-10	0.5-10 µl	0.01	1	0.1	0.5	0.05
	NRO-20	2-20 µl	0.02	0.8	0.16	0.4	0.08
	NRO-50	5-50 µl	0.04	0.8	0.4	0.4	0.2
	NRO-100	10-100 µl	0.1	0.6	0.6	0.2	0.2
	NRO-200	20-200 µl	0.2	0.6	1.2	0.2	0.4
	NRO-1000	100-1000 µl	1.0	0.6	6	0.2	2

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Assured Quality with ISO 8655 Conformed Calibration

This product is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards. A calibration certificate is included inside the product package. A calibration tool is also included for quick in- lab re-calibration.

NERO[®]

Multichannel Micropipette

Introducing NERO[®], a state-of-the-art Micropipette, which has been designed keeping in mind practical challenges faced by the laboratory users. NERO[®] features Microlit's patented UniCal[®] technology, which enables the users to effortlessly recalibrate the pipette in a single-step process, eliminating the tedious hit and trial calibration method. NERO[®] Micropipette can be effectively recalibrated within 30 seconds, which truly sets it apart from the traditional pipettes. Embrace the future of precision with NERO[®], and elevate your laboratory experience like never before. It is categorized into Single Channel (Fixed and Variable Volume) and Multichannel Micropipettes (8-channel and 12-channel). The Multichannel micropipettes are recommended for ELISA Diagnostics Testing, Molecular Screening, Kinetic Studies, DNA amplification and many others.





Adjust Volume Easily with Plunger



Universal Tipcone Ensures Fitment with all Standard Tips



Easy-To-Read and Large 4-Digit Display



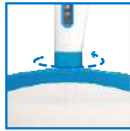
Soft Grip Ensures Fatigue Free Pipetting



Light Weight for Long Duration Pipetting



Eject Tips with a Sequential Tip Ejector



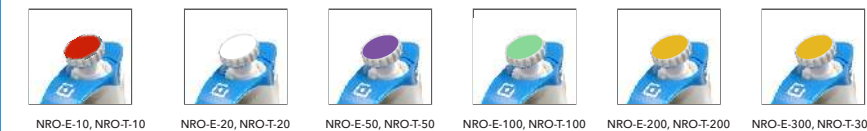
Operate Flexibly & with Ease



Fully Autoclavable at 120° C at 15 psi for a Duration of 15-20 mins

COLOUR CODING FOR EASY IDENTIFICATION

Multi Channel (8 & 12 Variable Volume Micropipette)



Colour-coding for different capacities facilitates easy identification during daily laboratory routine.

How is UniCal[®] Technology Beneficial?

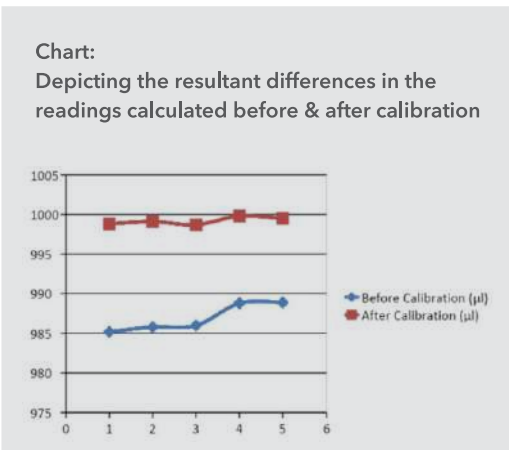
- ▶ It eliminates the inconvenience caused by the hit-and-trial method of calibration.
- ▶ It saves the cost and time of sending the instrument to another facility for third party calibration.
- ▶ It enables the user to re-calibrate without disassembling any component, disengaging the digits from the plunger or matching calibration markers on the micropipette to the volume adjustment chart in the user manual.

*Patent No.: 405607

How to calibrate a micropipette with UniCal[®] Technology?

Recalibration can be performed using the Microlit Calibration Tool by following the procedure:

- ▶ Perform at least 5 measurements on the nominal volume of pipette and calculate the average weighted dispense volume as measured by an analytical balance.
- ▶ Engage the Microlit Calibration Tool with plunger and calibration nut and adjust digits to display the average weighted dispense volume. Once the average weighted volume is displayed, the pipette has been recalibrated. It is that simple!
- ▶ Perform a few plunger operations to check the resulting volume.



Specifications and Ordering Information

8-CHANNEL MICROPIPETTE	MODEL	VOLUME RANGE (µl)	INC. (µl)	ACCURACY		CV	
				+/- %	+/- µl	+/- %	+/- µl
	NRO-E-10	0.5-10	0.01	1.6	0.16	1.00	0.01
	NRO-E-20	02-20	0.02	0.8	0.16	0.40	0.08
	NRO-E-50	05-50	0.04	0.8	0.40	0.40	0.20
	NRO-E-100	10-100	0.2	0.8	0.80	0.30	0.30
	NRO-E-200	20-200	0.2	0.8	1.60	0.30	0.60
	NRO-E-300	40-300	0.4	0.8	2.40	0.30	0.90

12-CHANNEL MICROPIPETTE	MODEL	VOLUME RANGE (µl)	INC. (µl)	ACCURACY		CV	
				+/- %	+/- µl	+/- %	+/- µl
	NRO-T-10	0.5-10	0.01	1.6	0.16	1.00	0.01
	NRO-T-20	02-20	0.02	0.8	0.16	0.40	0.08
	NRO-T-50	05-50	0.04	0.8	0.40	0.40	0.20
	NRO-T-100	10-100	0.2	0.8	0.80	0.30	0.30
	NRO-T-200	20-200	0.2	0.8	1.60	0.30	0.60
	NRO-T-300	40-300	0.4	0.8	2.40	0.30	0.90

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

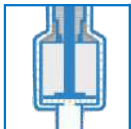
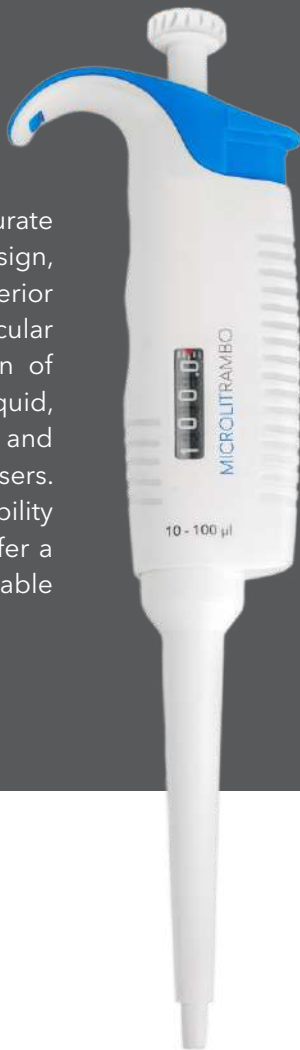
Assured Quality with ISO 8655 Conformed Calibration

This product is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards. A calibration certificate is included inside the product package. A calibration tool is also included for quick in- lab re-calibration.

RAMBO

Single Channel Micropipette

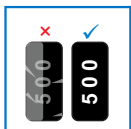
The RAMBO single channel micropipettes are precision instruments designed for accurate and efficient liquid handling in all laboratory environments. With a sleek ergonomic design, they offer comfort and ease of usage during pipetting tasks. These micropipettes boast superior accuracy and precision, ensuring reliable results in various applications such as molecular biology, biochemistry, and clinical diagnostics. μ Air® technology is another distinction of NERO® Micropipettes, which eliminates the dead air space between the piston and liquid, ensuring unparalleled accuracy and consistency. Featuring a user-friendly interface and intuitive operation, these micropipettes are suitable for both novice and experienced users. The robust construction and durable materials ensure long-term performance and reliability in demanding laboratory environments. Overall, RAMBO Single channel micropipettes offer a combination of accuracy, precision and user-friendly design, making them an indispensable tools for scientific research and experimentation.



Achieve Precision with μ Air® Technology



Spring and Ball-Based Digit Change Mechanism



Durable, Scratch-Resistant Display



Adjust Volume Easily with Soft Plunger



Polypropylene Housing Material



Universal Tipcone for Fitment with all the Standard Tips



Calibrated as per ISO 8655 in Microlit's NABL accredited laboratory according to ISO 17025



Ensures No Accidental Volume Change During Pipetting



Operate Flexibly & with Ease



Lightest Pipetting Experience with 3 -5N force for 1st Step

Specifications and Ordering Information

	MODEL	VOLUME RANGE (µl)	ACCURACY		CV	
			+/- %	+/- µl	+/- %	+/- µl
FIXED VOLUME MICROPIPETTE	RAM-F-1	1	5	0.05	5	0.05
	RAM-F-2	2	4	0.08	2	0.04
	RAM-F-5	5	2	0.10	1	0.05
	RAM-F-10	10	1	0.10	0.5	0.05
	RAM-F-20	20	0.8	0.16	0.4	0.08
	RAM-F-25	25	0.8	0.20	0.4	0.10
	RAM-F-50	50	0.8	0.40	0.4	0.20
	RAM-F-100	100	0.6	0.60	0.2	0.20
	RAM-F-200	200	0.6	1.20	0.2	0.40
	RAM-F-250	250	0.6	1.50	0.2	0.50
	RAM-F-500	500	0.6	3.00	0.2	1.00
	RAM-F-1000	1000	0.6	6.00	0.2	2.00
	RAM-F-2000	2000	0.6	12.00	0.2	4.00
	RAM-F-5000	5000	0.6	30.00	0.2	10.00
	RAM-F-10000	10000	0.4	40.00	0.2	20.00

	MODEL	VOLUME RANGE (µl)	INC. (µl)	ACCURACY		CV	
				+/- %	+/- µl	+/- %	+/- µl
VARIABLE VOLUME MICROPIPETTE	RAM-2	0.2-2.0	0.004	2	0.04	1.2	0.024
	RAM-10	0.5-10	0.01	1	0.10	0.5	0.05
	RAM-20	2-20	0.02	0.8	0.16	0.4	0.08
	RAM-50	5-50	0.04	0.8	0.40	0.4	0.20
	RAM-100	10-100	0.1	0.6	0.60	0.2	0.20
	RAM-200	20-200	0.2	0.6	1.20	0.2	0.40
	RAM-1000	100-1000	1.0	0.6	6.00	0.2	2.00
	RAM-5000	500-5000	4.0	0.6	30.00	0.2	10.00
	RAM-10000	1000-10000	10.0	0.6	60.00	0.2	20.00

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Assured Quality with ISO 8655 Conformed Calibration

This product is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards. A calibration certificate is included inside the product package. A calibration tool is also included for quick in- lab re-calibration.

COLOUR CODING FOR EASY IDENTIFICATION

Single Channel Fixed & Variable Volume Micropipette

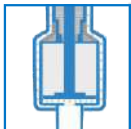
RAM-2 RAM-F-1, F-2, F-5	RAM-10 RAM-F-10	RAM-20 RAM-F-20, F-25	RAM-50 RAM-F-50	RAM-100 RAM-F-100	RAM-200 RAM-F-200	RAM-1000 RAM-F-250, F-500, F-1000	RAM-5000 RAM-F-2000, F-5000	RAM-10000 RAM-F-10000

Colour-coding for different capacities facilitates easy identification during daily laboratory routine.

RAMBO

Multichannel Micropipette

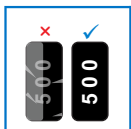
The RAMBO multi-channel micropipettes are engineered for efficient and accurate dispensing, enhancing workflow productivity. With their ergonomic design and intuitive operation, they offer comfortable handling during prolonged use, minimizing user fatigue. The pipettes feature adjustable volume settings, allowing precise control over sample volumes, crucial for various applications such as PCR, ELISA and drug discovery. Their compatibility with a wide range of tips ensures flexibility in experimental setups. The RAMBO multi-channel micropipettes are crafted with durable materials, ensuring longevity and reliability in demanding laboratory environments. Whether in academic, pharmaceutical, or clinical settings, the RAMBO multi-channel micropipettes are indispensable tools for accurate and efficient sample manipulation.



Achieve Precision with μ Air[®] Technology



Spring and Ball-Based Digit Change Mechanism



Durable, Scratch-Resistant Display



Adjust Volume Easily with Soft Plunger



Polypropylene Housing Material



Universal Tipcone for Fitment with all the Standard Tips



Calibrated as per ISO 8655 in Microlit's NABL accredited laboratory according to ISO 17025



Ensures No Accidental Volume Change During Pipetting



Operate Flexibly & with Ease



Lightest Pipetting Experience with 3 -5N force for 1st Step

Specifications and Ordering Information

8-CHANNEL MICROPIPETTE	MODEL	VOLUME RANGE (μl)	INC. (μl)	ACCURACY		CV	
				+/- %	+/- μl	+/- %	+/- μl
	RAM-E-10	0.5-10	0.01	1.6	0.16	1.00	0.01
	RAM-E-20	2-20	0.02	0.8	0.16	0.40	0.08
	RAM-E-50	5-50	0.04	0.8	0.40	0.40	0.20
	RAM-E-100	10-100	0.1	0.8	0.80	0.30	0.30
	RAM-E-200	20-200	0.2	0.8	1.60	0.30	0.60
	RAM-E-300	40-300	0.4	0.8	2.40	0.30	0.90

12-CHANNEL MICROPIPETTE	MODEL	VOLUME RANGE (μl)	INC. (μl)	ACCURACY		CV	
				+/- %	+/- μl	+/- %	+/- μl
	RAM-T-10	0.5-10	0.01	1.6	0.16	1.00	0.01
	RAM-T-20	2-20	0.02	0.8	0.16	0.40	0.08
	RAM-T-50	5-50	0.04	0.8	0.40	0.40	0.20
	RAM-T-100	10-100	0.1	0.8	0.80	0.30	0.30
	RAM-T-200	20-200	0.2	0.8	1.60	0.30	0.60
	RAM-T-300	40-300	0.4	0.8	2.40	0.30	0.90

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

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COLOUR CODING FOR EASY IDENTIFICATION

Multi Channel (8 & 12 Channel Variable Volume Micropipette)



RAM-E-10, RAM-T-10



RAM-E-20, RAM-T-20



RAM-E-50, RAM-T-50



RAM-E-100, RAM-T-100



RAM-E-200, RAM-T-200



RAM-E-300, RAM-T-300

Colour-coding for different capacities facilitates easy identification during daily laboratory routine.

RAMBO

Micropipette Starter Kits



NERO®

Micropipette Starter Kits



Model No. **MSK-RAM-03**

Kit Includes

I. Set of 3 Micropipettes | Single & Variable Volume

Model No.	Volume Range
RAM-10	0.5-10 µl
RAM-100	10-100 µl
RAM-100	100-1000 µl

II. Tips & Tip Boxes

Model No.	Qty	Capacity
TP-RK-10	96 Tips/Rack	Upto 10 µl
TP-RK-200	96 Tips/Rack	Upto 200 µl
TP-RK-1000	96 Tips/Rack	Upto 1000 µl

III. Carousel Stand

Model No.	Description
FVO-RAM	For 6 RAMBO Micropipettes

Model No. **MSK-RAM-04**

Kit Includes

I. Set of 4 Micropipettes | Single & Variable Volume

Model No.	Volume Range
RAM-10	0.5-10 µl
RAM-100	10-100 µl
RAM-100	100-1000 µl
RAM-10000	1-10 ml

II. Tips & Tip Boxes

Model No.	Qty	Capacity
TP-RK-10	96 Tips/Rack	Upto 10 µl
TP-RK-200	96 Tips/Rack	Upto 200 µl
TP-RK-1000	96 Tips/Rack	Upto 1000 µl
TP-BG-10000	50 Tips/Bag	Upto 10000 µl

III. Carousel Stand

Model No.	Description
FVO-RAM	For 6 RAMBO Micropipettes

Model No. **MSK-NRO-03**

Kit Includes

I. Set of 3 Micropipettes | Single & Variable Volume

Model No.	Volume Range
NRO-10	0.5-10 µl
NRO-100	10-100 µl
NRO-1000	100-1000 µl

II. Tips & Tip Boxes

Model No.	Qty	Capacity
TP-RK-10	96 Tips/Rack	Upto 10 µl
TP-RK-200	96 Tips/Rack	Upto 200 µl
TP-RK-1000	96 Tips/Rack	Upto 1000 µl

III. Carousel Stand

Model No.	Description
FVO-NRO	For 6 NERO Micropipettes

Model No. **MSK-NRO-04**

Kit Includes

I. Set of 4 Micropipettes | Single & Variable Volume

Model No.	Volume Range
NRO-10	0.5-10 µl
NRO-100	10-100 µl
NRO-1000	100-1000 µl
NRO-10000	1-10 ml

II. Tips & Tip Boxes

Model No.	Qty	Capacity
TP-RK-10	96 Tips/Rack	Upto 10 µl
TP-RK-200	96 Tips/Rack	Upto 200 µl
TP-RK-1000	96 Tips/Rack	Upto 1000 µl
TP-BG-10000	50 Tips/Bag	Upto 10000 µl

III. Carousel Stand

Model No.	Description
FVO-NRO	For 6 NERO Micropipettes

ELECTRONIC BURETTE & ELECTRONIC DISPENSER



E-BURETTE

Microlit E-BURETTE is a state-of-the-art Motor Operated Burette built by our in-house team of product design engineers, it offers a host of features like Motor Controlled Piston Movement, a touch screen enabled Control Panel with an intuitive graphical user interface (GUI), and 3 Calibrated Pre-Set Speeds to perform highly accurate titrations. Microlit E-BURETTE is widely used in industries like Pharmaceutical, Environmental Monitoring and Food & Beverages. It exhibits excellent chemical compatibility and helps in performing precise titrations with reliability in practical laboratory environments.



Work Accurately with 3 Calibrated Pre-set Speeds



Quick Set Feature allows last saved vol. dispensing



One Touch, One Drop Feature



Internal Memory to Store upto 20 Readings at a Time



Perform Quick Titrations with TFT Touchscreen



Digital Reading for Error Free and Point Recording



Equipped with 5 adapters that fit most lab reagent bottles



High and Consistent Accuracy through Motor Driven Piston

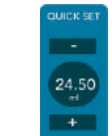


Achieve Remarkably Accurate and Better Results than CLASS-A Glass Burettes

- It Offers 3 Pre-set Speeds for Dispensing**
The instrument comes with 3 individually calibrated Pre-set Speeds, including dropwise dispensing.
- It Offers Motor Controlled Piston Movement**
In conventional Digital Burettes, dispensing is done 'manually' with the help of a rotating wheel, whose speed of rotation is not fixed and varies from user to user. Any abrupt changes in the speed may result in inaccurate and imprecise results.
- It is equipped with One Touch, One Drop Feature**
The dispensing feature will make your titration experience better than before. It is the first of its kind.

Burette Model	Mode	Speed
50 ml	Fast	3.8ml/sec
	Medium	1.3ml/sec
	Dropwise	10 ul/click
25 ml	Fast	2.1ml/sec
	Medium	0.7ml/sec
	Dropwise	10 ul/click
10 ml	Fast	1.2ml/sec
	Medium	0.2ml/sec
	Dropwise	5 ul/click

New Upgrades Designed to Enhance Your Lab Experience



Quick Set Feature
This new addition allows for automatic dispensing of the last saved volume to boost efficiency during titrations.



Portable Dot Matrix Printer
We are introducing portable printer integration as optional, enabling printing upto 20 readings at once.



3-Speed Individual Recalibration
One can perform recalibration at fast, medium and dropwise speeds. This flexibility ensures accuracy tailored to your specific requirements.



USFDA 21 CFR Part 11 Software
This software is optional, designed to streamline titration experiments with data security, multi-step authentication.

Specifications and Ordering Information

Model No.	Capacity (ml)	Increment (ml)	Accuracy		CV	
			±%	±ml	±%	±ml
TI-10	10	0.005	0.10	0.01	0.1	0.01
TI-25	25	0.01	0.07	0.0175	0.05	0.0125
TI-50	50	0.01	0.05	0.025	0.05	0.025

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Assured Quality with ISO 8655 Conformed Calibration

This product is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards. A calibration certificate is included inside the product package. A calibration tool is also included for quick in- lab re-calibration.

E-DISPENSER

Microlit E-DISPENSER is an electronic dispenser cum electronic burette that performs titration functions with the same accuracy and reliability as traditional burettes, with automated enhanced control. It offers various dispensing modes, including automatic dispensing, serial mode and stepper modes. Whether you're performing a routine experiment or complex titration, this device adapts to your needs seamlessly. Uniquely designed for ergonomic use and intuitive handling in mind, it is widely used in industries like Pharmaceuticals, Environmental Monitoring, Food & Beverages, Cosmetics and Personal Care, Oil and Gas Industry and many more. The E-Dispenser offers a wide range of volume settings, from microliter to millilitre quantities. Whether you're working with small-scale samples or larger volumes, it delivers precision at every step.



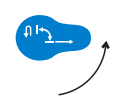
Acts as Electronic Dispenser cum Electronic Burette



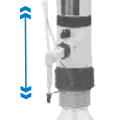
Offers Automatic, Serial & Stepper modes



4" TFT touchscreen with stylus for precise volume control



Recirculation Mode prevents reagent loss, ensures bubble-free purging



Adjustable nozzle allows flexible dispensing in confined setups



Stores 10 programs each for Serial and Stepper modes



Lightweight & intuitive, used across diverse lab industries



Digital Reading for Error-Free and Point Recording



Why Choose E-DISPENSER?

- **Dual Functionality:** Combines electronic dispenser and burette capabilities—automating titrations with reliability of classic burettes but with motor-controlled precision.
- **Versatile Dispensing Modes:** Offers Automatic, Serial, and Stepper modes, ideal for simple routines or complex titrations.
- **User-Friendly:** Stylus/touch interaction, saved programs and multiple modes streamline workflows.
- **Unmatched Accuracy:** Motor-driven piston ensures consistent dosing.
- **Reagent-Efficient:** Recirculation and adjustable nozzle reduce waste and risk.
- **Flexible & Reliable:** Scales from microliters to millilitres, suiting a wide range of lab tasks.

New Upgrades Designed to Enhance Your Lab Experience



Quick Set Feature
This new addition allows for automatic dispensing of the last saved volume to boost efficiency during titrations.



Portable Dot Matrix Printer
We are introducing portable printer integration as optional, enabling printing upto 20 readings at once.



3-Speed Individual Recalibration
One can perform recalibration at fast, medium and dropwise speeds. This flexibility ensures accuracy tailored to your specific requirements.



USFDA 21 CFR Part 11 Software
This software is optional, designed to streamline titration experiments with data security, multi-step authentication.

Specifications and Ordering Information

Model No.	Capacity (ml)	Increment (ml)	Accuracy		CV	
			±%	±ml	±%	±ml
TI-10	10	0.005	0.10	0.01	0.1	0.01
TI-25	25	0.01	0.07	0.0175	0.05	0.0125
TI-50	50	0.01	0.05	0.025	0.05	0.025

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Assured Quality with ISO 8655 Conformed Calibration

This product is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards. A calibration certificate is included inside the product package. A calibration tool is also included for quick in- lab re-calibration.

MINI-STIR (As Accessory)

Digital Magnetic Mini Stirrer

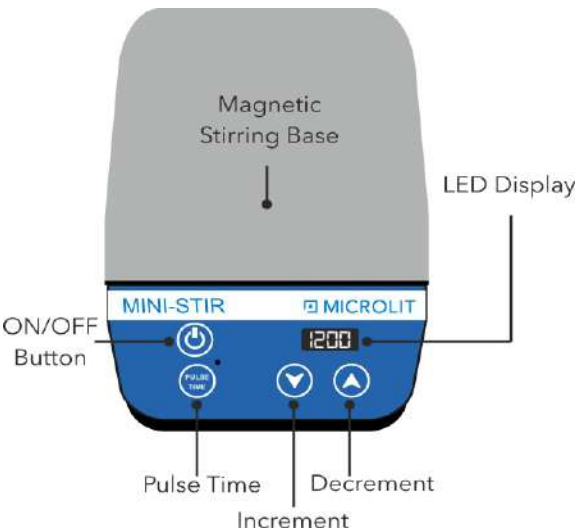
The Mini Stirrer is a compact, efficient laboratory device equipped with a powerful motorless, maintenance-free, spill-proof design capable of achieving speeds up to 1500 RPM, ensuring thorough mixing of various liquid samples. Its user-friendly design includes a digital display for accurate speed settings and a touch-sensitive control panel with unique Pulse Mode for easy and smooth operation. One of the key features of the MINI-STIR is its quiet operation, which reduces noise pollution in busy lab environments. The sleek and robust design, combined with its reliable performance, makes the MINI-STIR an excellent choice for laboratories seeking a balance between efficiency, precision and space-saving solutions.

-  Safety Function with Power Button
-  Speed Regulations upto 1500 RPM
-  Digital LED Display
-  Motor Less Magnetic Stirrer
-  Stepless Adjustable Stirring Speed
-  IP65 Compliant Spill Proof Design
-  Unique Pulse Mode



Overview

Detailed Description of Product



Specifications and Ordering Information

Specification	Motor less magnetic stirrer
Model	MINI-STIR
Speed Limit	15-1500 RPM
Stirring Position	1
Speed Increment / Decrement	50 RPM
Display	Digital LED
Working Plate Material	SS Plate
Setting Dia	105mm
Maximum Stirring Capacity	800ml H2O
Recommended Stirrer Bar Size	25x8mm PTFE Coated
Pulse Mode	30 seconds auto reverse direction
Timer	99 minutes and infinite mode
Last run Memory Save	Yes
Protection Class	IP65
Permissible Ambient temp	5°C to 40°C
Permissible relative humidity	80%
Standard Accessories	Stirrer Bar 1 Piece, 9V 1 Power adapter, Operation Manual
Voltage	100-240 VAC
Frequency	50/60 Hz
Weight	0.3 Kg
Dimension(WxDxH)	162 x 12 x 110 mm

ELECTRONIC PIPETTE FILLER



EASYAID

The Microlit EASYAID Electronic Pipette Filler is an advanced tool, equipped Force Touch technology and Solenoid Valve (patent filed) designed to streamline liquid handling in laboratories,enhancing both precision and user comfort. This electronic pipette filler stands out for its ergonomic design, which reduces hand fatigue during prolonged use, making it ideal for repetitive pipetting tasks. All intuitive operation is facilitated by touch-sensitive buttons, allowing for smooth control of aspiration and dispensing speeds. One of the key features of the EASYAID is its compatibility with a wide range of glass and plastic pipettes, ranging from 1 to 100 mL. This versatility makes it suitable for various applications in scientific research, clinical diagnostics and quality control laboratories.





Seamless Control and Enhanced Safety Due to Force Touch Technology



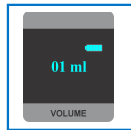
Usage of Solenoid Valve Enhances User Comfort and Task Flexibility



Hall Sensors Monitor Movement for Real-Time Adjustments



Forget Contamination with In-Line PTFE Membrane Filter



1-Inch Tempered Easy-to-Read OLED Displays



Unique Gravity Dispense Mode



Universal Silicon Collet Adapter



Benefits of Hall Sensors in Force Touch Technology and Solenoid Valve

- ▶ **User Experience**
Users can vary force on buttons for tailored control, enhancing user comfort and task flexibility.
- ▶ **Enhanced Safety**
Precise control minimizes spillage risks, ensuring experimental accuracy and safety.
- ▶ **Seamless Control**
Force Touch technology interaction allows seamless adjustment of aspiration and dispensing speed.
- ▶ **Real-Time Speed Adjustment**
Hall Sensors continuously monitor button movement for real-time speed adjustments.
- ▶ **Durability and Reliability**
Hall Sensors technology resolves the issue of accidentally damaged components or entry of the liquid inside the collet. Thereby, maintaining precise in or out flow of the liquid.
- ▶ **Low Maintenance**
Fewer components reduce maintenance needs and operational costs.

Specifications and Ordering Information



Model No:
EA-G-T (for Grey)
Grey & White Body
Grey Collet and Plunger



Model No:
EA-R-T (for Red)
Grey & White Body
Red Collet and Plunger



Model No:
EA-V-T (for Violet)
Grey & White Body
Violet Collet and Plunger



Model No:
EA-B-T (for Blue)
Grey & White Body
Blue Collet and Plunger



Model No:
EA-GR-T (for Green)
Grey & White Body
Green Collet and Plunger

Available in Five Colour Combinations

The instrument is available in five colour combinations.
*Refer to the specifications and ordering information.

MINIATURE MICROPIPETTES



LILPET & LILPET PRO

Microlit LILPET, a miniature fixed volume micropipette, is a low cost, high precision liquid handling instrument. It offers Two-step Plunger Operation and is specially designed for use with diagnostic kits. They are designed for your Rapid Test Kits which make your Diagnostic Kits more efficient by providing higher accuracy, precision and great convenience in comparison to traditional solutions like Pasteur, Glass pipettes, Capillary Tubes and Droppers. Microlit LILPET PRO, a miniature fixed volume micropipette with Tip Ejector is ideally suited for all sensitive applications. One can easily remove the used tips without contact and avoid any form of contamination.



-  Operate Accurately with Two Step Plunger Operation
-  An Optimum Length of 130 mm, Perfect for Fitting Inside the Kits
-  A Universal Tip Cone Ensures Fitment with all the Standard Tips
-  Calibrated in NABL-accredited Lab according to ISO 17025 Standards
-  Both LILPET and LILPET PRO are available as a Customizable OEM Product
-  Fully Autoclavable at 121°C at 15 Psi for a Duration of 15 - 20 mins

Both are offered in 7 Fixed Capacities

LILPET & LILPET PRO is fully autoclavable at 121°C and 15 psi for a duration of 10 - 15 minutes.

- 5 µl
- 10 µl
- 20 µl
- 25 µl
- 50 µl
- 100 µl
- 200 µl

Note: For volume ranges from 250 µl till 1000 µl, a unique MM Model of LILPET is supplied to our OEM Partners as per their requirements on case-to-case basis.

Industry Focus - MICROLIT LILPET and the Diagnostic Kits Manufacturing Industry

Today, the Diagnostic Kits Manufacturing Industry is growing at a tremendous rate in order to satisfy the ever-increasing need to analyse, determine or detect diseases in living organisms and/or measure the concentration of contaminants in consumer edibles like Beverages & Drinking Water, Milk & Dairy Products and Edible Fats & Oils etc. One of the biggest consumers of diagnostic kits are the developing countries. The Rapid Test Kit detect the contamination of Milk Samples by Beta-Lactam and Tetracycline molecules. In addition, Diagnostic Kits are also used as HbA1C Test Kits for diabetes detection. Real-time PCR or Quantitative PCR (qPCR) kits are used for pathogen detection, veterinary testing, meat speciation, fish speciation, GMO detection, Allergen testing, etc.

In order to carry out all these operations accurately, precise sampling and smooth transfer of these samples is essential. Our specially designed range of Miniature Micropipettes MICROLIT LILPET, LILPET PRO that are also available as customisable OEM products, empower these Diagnostic Kits by offering a sophisticated blend of mobility, high ease of use.

MICROLIT is supplying miniature pipettes to many renowned Rapid Test Kit manufacturers for applications like:

- Veterinary Kits
- Beta-lactam Testing
- Tetracycline Testing
- HbA1c Testing
- Milk testing
- Drug Abuse Testing

Specifications and Ordering Information

Model No.	Volume µl	Accuracy ±%	CV ±%
LIL-5	5	2.5	1.5
LIL-10	10	1.2	0.8
LIL-20	20	1.0	0.5
LIL-25	25	1.0	0.4
LIL-50	50	1.0	0.4
LIL-100	100	0.8	0.3
LIL-200	200	0.8	0.3

Model No.	Volume µl	Accuracy ±%	CV ±%
LILP-5	5	2.5	1.5
LILP-10	10	1.2	0.8
LILP-20	20	1.0	0.5
LILP-25	25	1.0	0.4
LILP-50	50	1.0	0.4
LILP-100	100	0.8	0.3
LILP-200	200	0.8	0.3

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and and steadily. The error limits are in accordance with DIN EN ISO 8655-2.

Assured Quality with ISO 8655 Conformed Calibration

This product is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards. A calibration certificate is included inside the product package. A calibration tool is also included for quick in- lab re-calibration.

PERISTALTIC PUMPS



Speed Variable Peristaltic Pump | B-Series

MP110B | MP310B | MP610B (ABS Engineering Plastic Housing)

All models provide essential controls like start/stop, forward/reverse, speed adjustment, delay start/stop, and state memory to resume after power loss. An intuitive LCD interface makes setting parameters straightforward. Advanced RS 485 communication via MODBUS enables seamless integration with external control systems. The ABS plastic housing version is designed to deliver reliable performance in cost-sensitive applications, where high-end industrial-grade materials may not be necessary. It offers a practical solution for laboratories and setups operating within tighter budgets, without compromising on core functionality. With adequate resistance for low to moderate chemical exposure, it is well-suited for handling common reagents, buffers and mild solvents. The lightweight and compact construction enhances portability, making it easy to reposition across workstations, pilot-scale environments, or field-based applications. Ideal for use in non-harsh environments, this variant strikes a balance between affordability, convenience, and everyday lab utility.

MP110B

Flow Rate : 0.00011-750 ml/min
Speed Rate : 0.1~150RPM
Driver Weight : 3.6kg
Power Consumption : <30W

MP310B

Flow Rate : 0.005-1750 ml/min
Speed Rate : 0.1~350RPM
Driver Weight : 3.9kg
Power Consumption : <40W

MP610B

Flow Rate : 0.005-3000 ml/min
Speed Rate : 0.1~600RPM
Driver Weight : 3.9kg
Power Consumption : <50W



Quick Tube Change



Stainless Steel Rotors

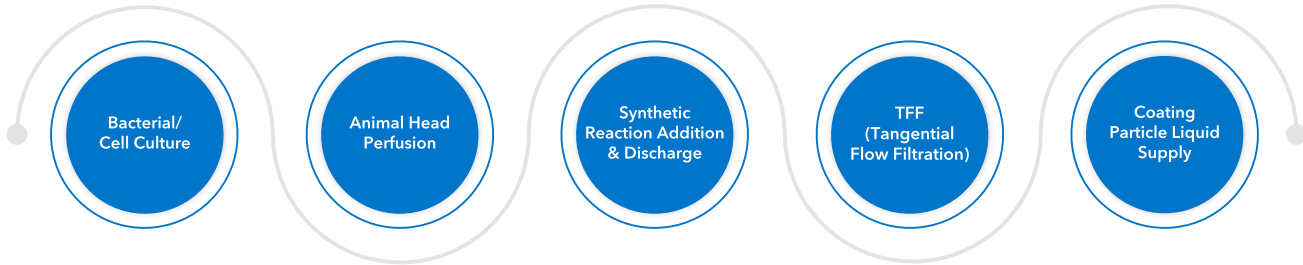


Moderate Pulsation

Technical Specifications:

Speed Resolution	0.1RPM (speed ≤ 100 RPM) / 1RPM (speed>100RPM)
Speed Accuracy	0.5%
Duration	0.1~999 S/Min/H/D
Dispensing Interval Time	0.1~999 S/Min/H/D
Dispensing Time	1~999, "0" Infinite loops
External Control	External control input level 5V, 12V (Standard), 24V (Optional), External control analog 0-5V (Standard), 0-10V, 4-20mA (Optional)
Working Environment	Temperature 0~40°C, relative humidity<80%
IP Grade	IP31
Dimension (L×W×H)	284mm × 180mm × 197mm

Application Areas:



Ordering Information:

Model No.	Pump Head	Channel	Tubing Size	Flow rate per channel (ml/min)
MP110B	PH10-28 (8 Rollers)	1,2	13#14#, Wall 0.8~1mm ID≤3.17mm	0.00023~64
	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~641
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~750
MP310B	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~1495
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~1750
MP610B	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~2562
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~3000

Speed Variable Peristaltic Pump | B-Series

MP100B | MP300B | MP600B (304 Stainless Steel Housing)

All models provide essential controls like start/stop, forward/reverse, speed adjustment, delay start/stop, and state memory to resume after power loss. An intuitive LCD interface makes setting parameters straightforward. Advanced RS 485 communication via MODBUS enables seamless integration with external control systems. The stainless-steel chassis offers excellent chemical resistance and easy cleaning, making it ideal for pharmaceutical, biotech and aqueous or solvent-based processes. Anti-drop or back-suction features help prevent dripping, while multi-segment/time-based dispensing modes allow precise programming of complex workflows. These models strike a balance of performance, reliability and hygiene in demanding lab or production environments

MP100B
Flow Rate : 0.00011-750 ml/min
Speed Rate : 0.1~150 RPM
Driver Weight : 3.5kg
Power Consumption : <40W

MP300B
Flow Rate : 0.005-1750 ml/min
Speed Rate : 0.1~350 RPM
Driver Weight : 4.3kg
Power Consumption : <50W

MP600B
Flow Rate : 0.005-3000 ml/min
Speed Rate : 0.1-600 RPM
Driver Weight : 4.3kg
Power Consumption : <60W



Quick Tube Change



Stainless Steel Rotors

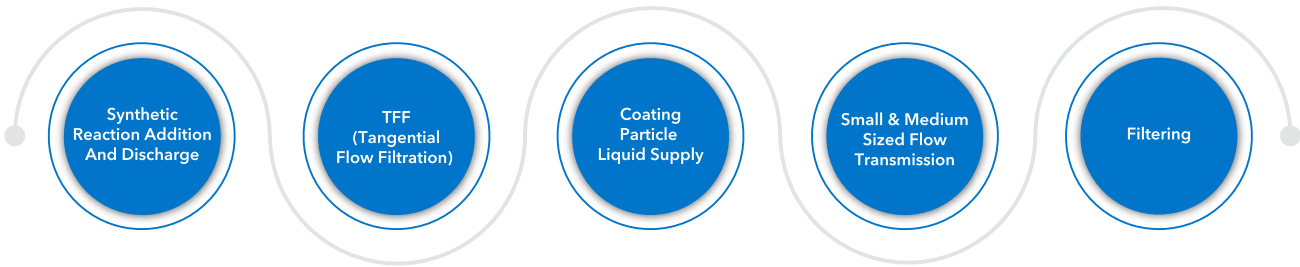


Moderate Pulsation

Technical Specifications:

Speed Resolution	0.1RPM (speed ≤ 100 RPM) / 1RPM (speed>100RPM)
Speed Accuracy	<±0.5%
Duration	Running time 0.1~999 S/Min/H/D, Interval time 0.1~999 S/Min/H/D
Dispensing Interval Time	0.1~999.9 S/Min/H
Dispensing Time	1~999, "0" Infinite cycle
External Control Signal Input	(1) Start/Stop: passive contact, external control input level (5~24V) (2) Forward/Reverse: passive contact, external control input level (5~24V) (3) Speed Regulation: analog 0~5V, 0~10V, 4~20mA can be set
External Control signal output	(1) Start/Stop: Level Signal (following input voltage) (2) Forward/Reverse: Level Signal (following input voltage)
Working Environment	Temperature 0~40°C, relative humidity<80%
IP Grade	IP31
Dimension (L×W×H)	261mm x 150mm x 237mm

Application Areas:



Ordering Information:

Model No.	Pump Head	Channel	Tubing Size	Flow rate per channel (ml/min)
MP100B	PH6-4	4	Wall 0.8 ~ 1 mm, ID ≤ 3.17 mm	0.00016 ~ 49
	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~641
	PH25	1,2	114# 116# 15# 24# 35# 36#	0.024~750
MP300B	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~1495
	PH15-24 (4 Rollers)	2	19# 16# 25# 17#	0.67~1307
	PH15-44 (4 Rollers)	4	19# 16# 25#	0.67~770
	PH25	1,2	114# 116# 15# 24# 35# 36#	0.024~1750
MP600B	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~2562
	PH15-24 (4 Rollers)	2	19# 16# 25# 17#	0.0067~2240
	PH25	1,2	114# 116# 15# 24# 35# 36#	0.024~3000

Clever Flow Peristaltic Pump | C-Series

MP110C | MP310C | MP610C (ABS Engineering Plastic Housing)

The Clever Flow Peristaltic Pump is designed for applications that demand accuracy, consistency and adaptability. Built with advanced features like wizard-style flow calibration, it ensures precise volume delivery across a range of viscosities and fluid types. The pump is available in ABS plastic housing, catering to diverse usage environments—from hygienic pharmaceutical and biotech labs to compact R&D or OEM setups. Equipped with temperature-controlled cooling, the Clever Flow series maintains stable performance even under thermally variable conditions, enhancing its operational reliability in long-duration or high-throughput workflows. Designed with connectivity and automation in mind, the Clever Flow pump supports RS 485 communication via MODBUS and offers Wi-Fi connectivity for remote monitoring and control through a companion app. With its lightweight and energy-efficient ABS models (3.6-3.9kg, <50W), the Clever Flow series adapts to a wide variety of liquid handling needs. Whether integrated into automated systems or used as a standalone unit, it offers an ideal balance of performance, portability and precision.

MP110C

Flow Rate : 0.00011-750 ml/min
Speed Rate : 0.1~150 RPM
Driver Weight : 3.6 kg
Power Consumption : <30W

MP310C

Flow Rate : 0.005-1750 ml/min
Speed Rate : 0.1~350 RPM
Driver Weight : 3.9kg
Power Consumption : <40W

MP610C

Flow Rate : 0.005- 3000 ml/min
Speed Rate : 0.1~600 RPM
Driver Weight : 3.9kg
Power Consumption : <50W



Quick Tube Change



Stainless Steel Rotors

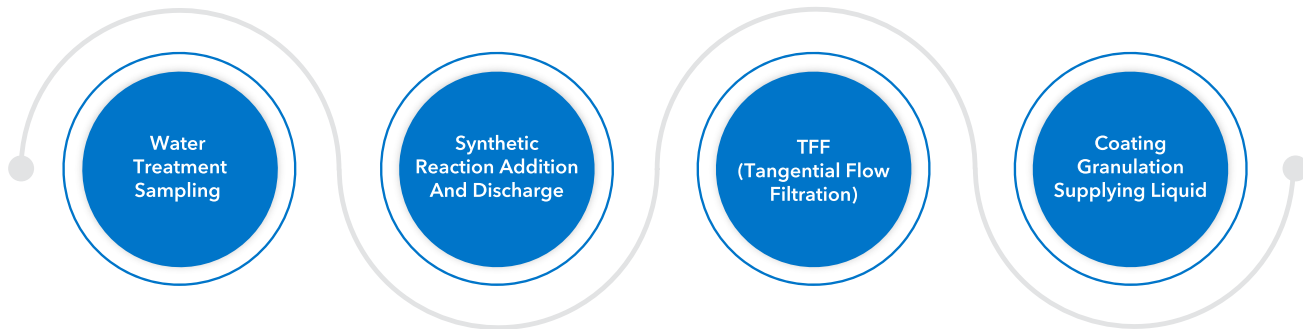


Moderate Pulsation

Technical Specifications:

Speed Resolution	0.1RPM
Speed Accuracy	<±0.2%
Power Supply	AC 100~240V, 50Hz/60Hz
Power Consumption	<30W
External Control Interface	External control input level 5V, 12V (standard), 24V (optional), External control analog 0-5V (standard), 0-10V, 4-20mA (optional)
Communication Interface	RS485 communication interface, MODBUS protocol is available
Working Environment	Temperature 0~40°C, relative humidity<80%
IP Grade	IP31
Dimension (L×W×H)	258mm × 180mm × 197mm

Application Areas:



Ordering Information:

Model No.	Pump Head	Channel	Tubing Size	Flow rate per channel (ml/min)
MP110C	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~641
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~750
MP310C	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~1495
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~1750
MP610C	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~2562
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~3000

Clever Flow Peristaltic Pump | C-Series

MP100C | MP300C | MP600C (304 Stainless Steel Housing)

The Clever Flow Peristaltic Pump is a high-precision liquid handling solution designed for applications that demand accuracy, consistency and adaptability. Built with advanced features like wizard-style flow calibration, it ensures precise volume delivery across a range of viscosities and fluid types. The pump is available in stainless steel housing, catering to diverse usage environments—from hygienic pharmaceutical and biotech labs to compact R&D or OEM setups. Equipped with temperature-controlled cooling, the Clever Flow series maintains stable performance even under thermally variable conditions, enhancing its operational reliability in long-duration or high-throughput workflows. Designed with connectivity and automation in mind, the Clever Flow pump supports RS 485 communication via MODBUS and offers Wi-Fi connectivity for remote monitoring and control through a companion app. With its heavy-duty stainless steel variants (~4.5kg, <60W), the Clever Flow series adapts to a wide variety of liquid handling needs. Whether integrated into automated systems or used as a standalone unit, it offers an ideal balance of performance, portability and precision.

MP100C
Flow Rate : 0.00011-750 ml/min
Speed Rate : 0.1~150 RPM
Driver Weight : 4.5 kg
Power Consumption : <40W

MP300C
Flow Rate : 0.005-1750 ml/min
Speed Rate : 0.1~350 RPM
Driver Weight : 4.5 kg
Power Consumption : <50W

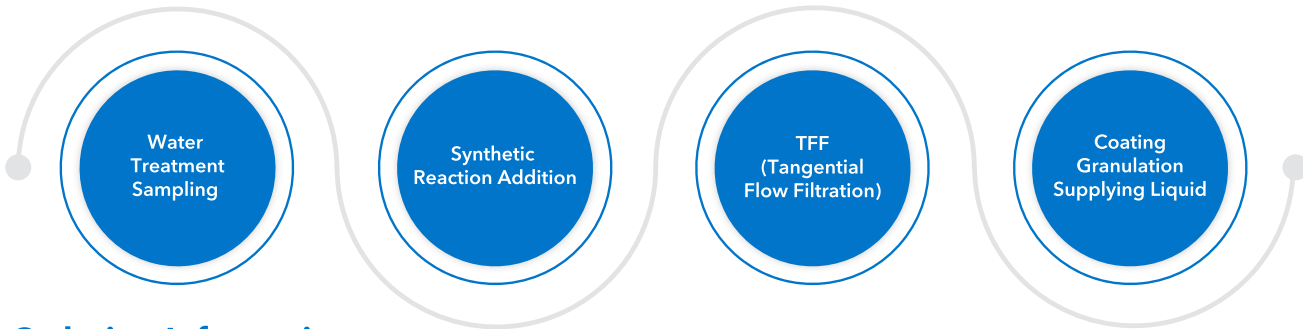
MP600C
Flow Rate : 0.005- 3000 ml/min
Speed Rate : 0.1~600 RPM
Driver Weight : 4.5 kg
Power Consumption : <60W



Technical Specifications:

Speed Resolution	0.1RPM
Speed Accuracy	<±0.2%
Duration	Start time: 0.1~999.9 S/Min/H Stop time: 0.1~999.9 S/Min/H
Dispensing Time	0.1~99.99 S/Min/H, time unit adjustable
Dispensing Number	1~999, 0 Infinite cycle
Dispensing Interval	0.1~999 S/Min/H
External control Signal Input	(1) Start/Stop: passive contact, external control input level (5~24V) (2) Forward/Reverse: passive contact, external control input level (5~24V) (3) Speed Regulation: analog 0~5V, 0~10V, 4~20mA can be set
External control Signal Output	(1) Start/Stop: Level Signal (following input voltage) (2) Forward/Reverse: Level Signal (following input voltage) (3) Speed Status: Analogue 0~5V
Working Environment	Temperature 0~40°C, relative humidity<80%
Communication Interface	RS485 communication interface, MODBUS protocol is available
IP Grade	IP31
Dimension (L×W×H)	292mm x 160mm x 183mm

Application Areas:



Ordering Information:

Model No.	Pump Head	Channel	Tubing Size	Flow rate per channel (ml/min)
MP100C	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~641
	PH25	1,2	114# 116# 15# 24# 35# 36#	0.024~750
MP300C	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~1495
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~1750
	PH15-24 (4 Rollers)	2	19# 16# 25# 17#	0.67~1307
	PH15-44 (4 Rollers)	4	19# 16# 25#	0.67~770
MP600C	PH15T	1.2	13# 14# 19# 16# 25# 17# 18#	0.005~2562
	PH25	1.2	114# 116# 15# 24# 35# 36#	0.024~3000

Intelligent Dispensing Peristaltic Pump | I-Series

MP110I | MP310I | MP610I (ABS Engineering Plastic Housing)

Intelligent Dispensing Peristaltic Pump is a state-of-the-art liquid handling instrument engineered to offer unparalleled control, accuracy and user experience. At its core is a vibrant 4.3" color touchscreen interface coupled with an intuitive keypad, enabling precise management of parameters like flow rate, direction and dispensing volume. With advanced features such as wizard-style flow calibration, anti-drip back suction, multi-segment dispensing, and memory retention, the pump ensures consistency in complex and repetitive workflows. These capabilities make it ideal for high-precision applications in pharmaceuticals, chemicals, biotech, and diagnostic research. Designed with automation in mind, the pump supports RS 485 MODBUS communication with over 80 programmable commands, as well as external analog and digital inputs, allowing seamless integration with laboratory automation systems and external controllers. Available in both heavy-duty stainless steel and lightweight ABS plastic housing variants, it caters to a wide range of environments—from Industrial production setups to compact R&D labs.

MP110I

Flow Rate : 0.00011-750 ml/min
Speed Rate : 0.1~150 RPM
Driver Weight : 3.6kg
Power Consumption : <30W

MP310I

Flow Rate : 0.005-1750 ml/min
Speed Rate : 0.1~350 RPM
Driver Weight : 3.9 kg
Power Consumption : <40W

MP610I

Flow Rate : 0.005- 3000 ml/min
Speed Rate : 0.1~600 RPM
Driver Weight : 3.9 kg
Power Consumption : <50W



Quick Tube Change



Stainless Steel Rotors

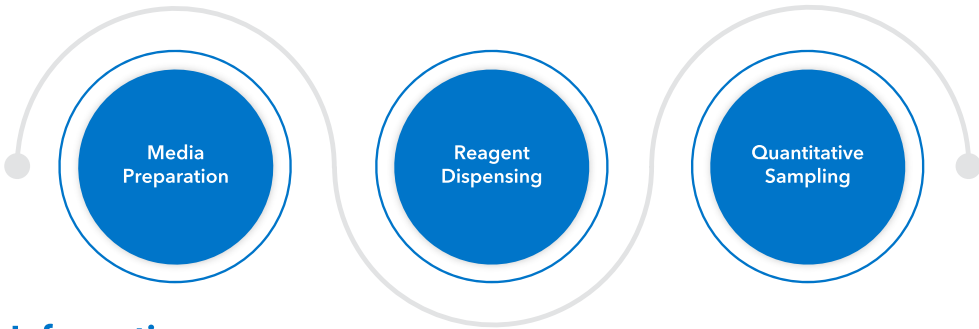


Moderate Pulsation

Technical Specifications:

Speed Resolution	0.1RPM
Speed Accuracy	<±0.2%
Dispensing Volume	0.001μL~9999L (The recommended minimum filling volume is 50 μL)
Dispensing Time	1~999,"0" Infinite loops
Dispensing Interval Time	0.1~999.9 S/Min/H, time unit adjustable
External Control	External control input level 5V, 12V (Standard), 24V (Optional), External control analog 0-5V (Standard), 0-10V, 4-20mA (Optional)
Working Environment	Temperature 0~40°C, relative humidity<80%
Communication Interface	RS485 communication interface, MODBUS protocol is available
IP Grade	IP31
Dimension (L×W×H)	258mm ×180mm ×197mm

Application Areas:



Ordering Information:

Model No.	Pump Head	Channel	Tubing Size	Flow rate per channel (ml/min)
MP110I	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~641
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~750
MP310I	PH15T	1	13# 14# 19# 16# 25# 17# 18#	0.005~1495
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~1750
MP610I	PH15T	1	13# 14# 19# 16# 25# 17# 18#	0.005~2562
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~3000

Intelligent Dispensing Peristaltic Pump | I-Series

MP100I | MP300I | MP600I (304 Stainless Steel Housing)

Intelligent Dispensing Peristaltic Pump is a state-of-the-art liquid handling instrument engineered to offer unparalleled control, accuracy and user experience. At its core is a vibrant 4.3" color touchscreen interface coupled with an intuitive keypad, enabling precise management of parameters like flow rate, direction and dispensing volume. With advanced features such as wizard-style flow calibration, anti-drip back suction, multi-segment dispensing, and memory retention, the pump ensures consistency in complex and repetitive workflows. These capabilities make it ideal for high-precision applications in pharmaceuticals, chemicals, biotech, and diagnostic research. Designed with automation in mind, the pump supports RS 485 MODBUS communication with over 80 programmable commands, as well as external analog and digital inputs, allowing seamless integration with laboratory automation systems and external controllers. Available in both heavy-duty stainless steel and lightweight ABS plastic housing variants, it caters to a wide range of environments—from Industrial production setups to compact R&D labs.

MP100I

Flow Rate : 0.00016-750 ml/min
Speed Rate : 0.1~150 RPM
Driver Weight : 4.5 kg
Power Consumption : <40W

MP300I

Flow Rate : 0.005-1750 ml/min
Speed Rate : 0.1~350 RPM
Driver Weight : 4.5 kg
Power Consumption : <50W

MP600I

Flow Rate : 0.005- 3000 ml/min
Speed Rate : 0.1~600 RPM
Driver Weight : 4.5 kg
Power Consumption : <60W



Quick Tube Change



Stainless Steel Rotors

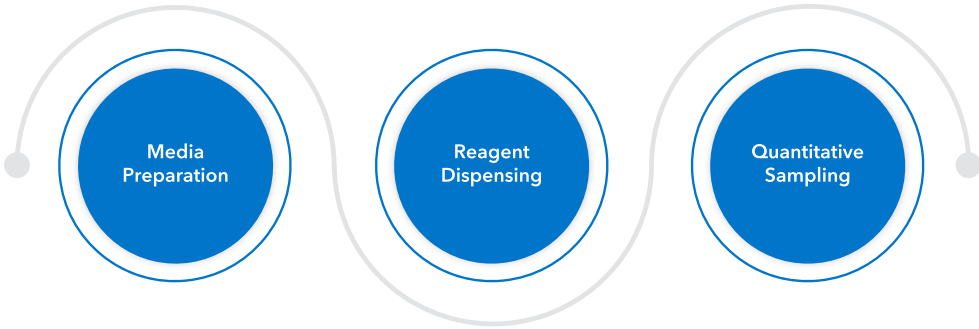


Moderate Pulsation

Technical Specifications:

Speed Resolution	0.1RPM
Speed Accuracy	<±0.2%
Dispensing Volume	0.001μL~9999L (The recommended minimum filling volume is 50 μL)
Dispensing Time	1~999,"0" Infinite loops
Dispensing Interval Time	Control start/stop, direction, adaptable to 5-24V;
External control Signal Input	Analog signals 0-5V/0-10V/4-20mA can be configured
External control Signal Output	Start/stop, direction status output
Working Environment	Temperature 0~40°C, relative humidity<80%
Power Supply	AC100~240V, 50Hz/60Hz
IP Grade	IP31
Dimension (L×W×H)	292mm x 160mm x 183mm

Application Areas:



Ordering Information:

Model No.	Pump Head	Channel	Tubing Size	Flow rate per channel (ml/min)
MP100I	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~641
	PH25	1,2	114# 116# 15# 24# 35# 36#	0.024~750
MP300I	PH15T	1,2	13# 14# 19# 16# 25# 17# 18#	0.005~1495
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~1750
	PH15-24 (4 Rollers)	2	19# 16# 25# 17#	0.67~1307
	PH15-44 (4 Rollers)	4	19# 16# 25#	0.67~770
MP600I	PH15T	1.2	13# 14# 19# 16# 25# 17# 18#	0.005~2562
	PH25	1	114# 116# 15# 24# 35# 36#	0.024~3000

Feature Comparative Chart of Peristaltic Pumps				
S.No.	Features	Speed Variable Model (B-Series)	Clever Flow Model (C-Series)	Intelligent Dispensing Model (I-Series)
1	Adjust Flow Speed	✓	✓	✓
2	Time Dispensing	✓	✓	✓
3	Volume Dispensing	✗	✗	✓
4	Foot Switch Compatibility	✓	✓	✓
5	Hand Dispenser Compatibility	✓	✓	✓
6	Calibration	✗	✓	✓
7	Program Mode	✗	✗	✓
8	Available in ABS Engineering Plastic Housing	✓	✓	✓
9	Available in 304 Stainless Steel Housing	✓	✓	✓
10	Tube Change Setting	✓	✓	✓
11	Possibility of Head Pump Change	✓	✓	✓
12	RS485 Connectivity (MODBUS Protocol)	✓	✓	✓
13	Wifi Remote Control	✗	✓	✓
14	Touch Screen Operations	✗	✓	✓
15	Direction Control (Forward and Reverse Rotation)	✓	✓	✓
16	IP 31 Protection	✓	✓	✓
17	IP 66 Protection	✓	✓	✓
18	Anti Drip Setting	✗	✓	✓

Accessories

Hand Dispenser

MP - HD

The hand dispenser is equipped with Microlit MP-HD series filling needles, making it ideal for manual and semi-automatic dispensing with a peristaltic pump. It features a comfortable grip, compact size, and lightweight design.



Dimensions:
ID≤8mm, wall thickness≤2.4mm

Footswitch

MP - FS

Designed to work with Microlit's full range of products, the footswitch controls the start and stop of the pump. It features a **light-touch front-step design** for clear feedback and anti-fatigue use.



Dimensions:
103×72×25mm

IP grade:
IP54

Silicone Tubing

Silicone Tubing is made of silicone rubber material and processed by platinum vulcanization process, high cleanliness, excellent elasticity and abrasion resistance, it is a high-quality peristaltic pump tube and transmission tube. It is widely used in pharmaceutical, bioengineering, fine chemical, food, medical and other fields.

Functions & Features:

- Has excellent biocompatibility
- Odorless, non-toxic, no plasticizer, very little precipitation
- The inner wall is very smooth and has good antibacterial performance
- Good elasticity, can quickly restore shape after radial compression (shore hardness:50~55)
- Weatherproof, ozone-resistant, anti-radiation, excellent anti-aging performance
- Suitable for neutral liquids, weak acids, weak bases and some low-concentration solvents
- Temperature resistance range -50~230°C under static state, -40~100°C temperature resistance under working condition
- Can use hot water, distilled water for cleaning; high temperature and high pressure, ethylene oxide, gamma ray sterilization
- The color is transparent, translucent to milky white, etc.

Silicone Tubing Specifications:

Tubing No.		0.5x0	1x0.92	2x0.92	2.4x0	3x0.92	13#	14#	19#	16#	25#	17#	18#
Tubing Section (1:1)													
Wall thickness (mm)		0.92					1.6						
ID (mm)		0.5	1.0	2.0	2.4	3.0	0.8	1.6	2.4	3.1	4.8	6.4	7.9
Tubing Pressure (Mpa)	Continuous	0.1					0.17				0.14	0.1	0.07
	Interval	0.1					0.27				0.24	0.14	0.1

Tubing No.:



Tubing No.		73#	82#	193#	191#	88#	92#
Tubing Section (1:1)							
Wall thickness (mm)		3.3			4.8		
ID (mm)		9.6	12.7	9.5	19	12.7	25.4
Tubing Pressure (Mpa)	Continuous	0.17	0.1	0.14			
	Interval	0.27	0.1	0.14			

1. The tubing picture in the table is a 1:1 cross-sectional view of the actual product.
2. The tubing specifications are marked with a tubing no. or "ID ×wall thickness", such as:25# or 4.8×1.6mm.
3. The wall thickness of 1.6mm or more can adapt to the higher speed of the peristaltic pump, generally up to 600RPM.
4. High speed cannot be used below 1.0mm wall thickness, generally not more than 100RPM.
5. The default tube size is approx. 2 meters in length.

Pump Head

PH15-24 | PH15-44 | PH 10-28



Quick Tube Change



Stainless Steel Rotors



Moderate Pulsation

Functions & Features:

- The PH series pump head is designed for **small to medium flow, multi-channel fluid transmission**, and is available in two versions, the PH10 and PH15, based on tubing size.
- PH10 pump head: **Offers a single-channel flow** range of 0.00023 to 64 ml/min, compatible with tubing sizes 13# and 14#, with an inner diameter of 0.13 to 3.2 mm and a wall thickness of 0.8 to 1 mm.
- PH15 pump head: Provides a single-channel flow range of 0.067 to 2240 ml/min, suitable for tubing sizes 19#, 16#, 25#, and 17#.
- Features a plug-card structure for quick and independent installation and removal, making tubing replacement easy and efficient.
- **Multi-roller design** effectively reduces pulsation.
- Rollers are made of **high-strength stainless steel**, while the housing and card are constructed from PPS, offering high-temperature and chemical resistance.
- **Bearing roller design** with adjustable gaps enhances flow consistency.
- Compatible with stepper motors, servo motors, AC gear motors, and DC gear motors.

Technical Specifications of PH15 Series:

Channel	1,2,4
Roller	4
Speed Range	0.1~600 RPM/min
Flow Range	0.067 ~2240 ml/min
Pressure Tube Clearance	Adjustable
Working Environment	Less than 200°C
Corrosion Resistance	PPS is resistant to most acid, alkali, salt liquids and organic solvents.
Motor	Stepper motor, servo motor , AC gear motor, DC gear motor etc.

Technical Specifications of PH10 Series:

Channel	1,2,4,8
Roller	8
Speed Range	0.1~100 RPM/min
Flow Rate	0.00023~ 64 ml/min
Pressure Tube Clearance	Adjustable
Working Environment	Less than 200°C
Corrosion Resistance	PPS is resistant to most acid, alkali, salt liquids and organic solvents.
Motor	Stepper motor, servo motor , AC gear motor, DC gear motor etc.

Installation Diagrams:



Ordering Information:

Pump Head	Roller Material	No. of Roller(s)	No. of Channel(s)
PH15-24	304 Stainless Steel	4	2
PH15-44	304 Stainless Steel	4	4
PH10-28	304 Stainless Steel	8	1,2,4,8

Pump Head

PH 6-4



Quick Tube Change



Stainless Steel Rotors



Moderate Pulsation

Functions & Features:

- The Microlit PH series pump head is designed for **small-flow, multi-channel fluid transmission** and can simultaneously handle 1 to 48 channels in a compact, user-friendly design.
- Its precision structured design ensures **very low pulsation**, even compared to traditional multi-roller pump heads.
- The **well-engineered mechanical structure** and high-precision manufacturing technology ensure consistent flow across all channels.
- Features a card-type structure for independent loading and unloading, making tube replacement and securing quick and easy.
- Two types of card pressure devices are available: a **ratchet adjustment device** and an **adaptive spring device**. The adjustment card includes a shift display, allowing manual adjustment of tube clearance to fit various wall thicknesses and transmission pressures. The adaptive spring design automatically adjusts clearance based on tube thickness.
- Pump head rollers are made from **high-strength stainless steel**, with POM and PVDF high-performance plastics used in the card material to meet various operational requirements.
- Suitable for tubing with a wall thickness of 0.8 to 1 mm and an inner diameter of 0.13 to 3.17 mm, compatible with materials like silicone, Pharmed, PVC, Viton, and others. The single-channel flow range is 0.0001 to 49 ml/min.
- The pump head offers 6 rollers; the 6-roller head provides a broader flow range and extended tube life.
- Compatible with motors such as stepper motors, servo motors, AC gear motors, DC gear motors, and others operating at speeds below 100 RPM.

Technical Specifications:

Channel	4
Rollers	6
Speed Range	≤ 100 RPM/min
Flow Range	≤ 50 ml/min
Tube Wall Thickness	0.8mm~1mm, ID:0.13mm~3.17mm
Pressure Tube Clearance	Automatic / Manual adjustment
Working Environment	Temperature 0~40℃, relative humidity<80%
Motor	Stepper motor, Servo motor, AC gear motor, DC gear motor etc.

Note: After cascading the pump head, it can be expanded to 48 or more channels.

Installation Diagrams:



Ordering Information:

Pump Head	Roller Material	No. of Roller(s)	No. of Channel(s)
PH 6-4	304 Stainless Steel	6	4

Pump Head

PH 15T



Quick Tube Change



Stainless Steel Rotors



Moderate Pulsation

Functions & Features:

● **Enhanced Exterior Design**

The PH15T pump head now features a rear cover design to improve product integrity. It has a sleek, elegant appearance, with more dynamic curved lines. An independent small faceplate has also been added to the rear cover for a more standardized product design.

● **Adjustable Pressure Tube Gap for Improved Versatility**

The pump head is equipped with an adjustable pressure tube gap, which can be modified by turning the screws on top of the pump head. This allows the pump head to be compatible with tubes of various specifications, enhancing pressure application, improving versatility, and extending the tube's service life.

● **Innovative Tube Clamp Linkage Mechanism for Easier Installation**

A new tube clamp linkage mechanism retracts the tube clamp inward when the pressure block is opened, allowing for simultaneous opening of both the pressure block and the tube clamp. This feature simplifies tube installation, reduces operational difficulty, and increases work efficiency. This patented design is registered.

● **Adaptive Clamping Mechanism:**

Automatically accommodates tubes of different inner diameters without manual adjustments,

making the product easier to use.

● **Classic Pump Head Opening Method:**

Allows quick tube replacement within seconds, significantly enhancing product efficiency and user convenience.

● **PPS Material Casing:**

The casing is made from PPS material, known for its resistance to organic solvents and other corrosive liquids, greatly boosting the product's durability and corrosion resistance.

● **Stainless Steel Rollers:**

These rollers are designed for high-strength usage at high speeds and for extended periods, ensuring long service life for the pump head.

● **Multi-Channel Support:**

The pump head supports the cascading of multiple heads and can be expanded to handle up to 10 channels.

Note: When connecting two pump heads in series, the rollers are staggered at a 60° angle to effectively reduce fluid pulsation and enhance transmission speed.

Technical Specifications:

Flow Rate	≤ 2400ml/min
Channel	1
Roller	3/6 rollers
Speed Range	0.1~100 RPM/min
Tubing Method	Fixation of pump head tube clamp
Pressure Tube Clearance	Automatic/ manual adjustment
Dimension	95.7 x 108.7 x 63.1 mm
Working Environment	Temperature 0~40℃, relative humidity<80%
Bear Liquid Temperature	Within 200℃
Corrosion Resistance	Resistant to most acid, alkali, salt liquids and organic solvents.

Installation Diagrams:



Ordering Information:

Pump Head	Roller Material	No. of Roller(s)	No. of Channel(s)
PH15T	304 Stainless Steel	3,6	1

Pump Head

PH - 25



Quick Tube Change



Stainless Steel Rotors



Moderate Pulsation

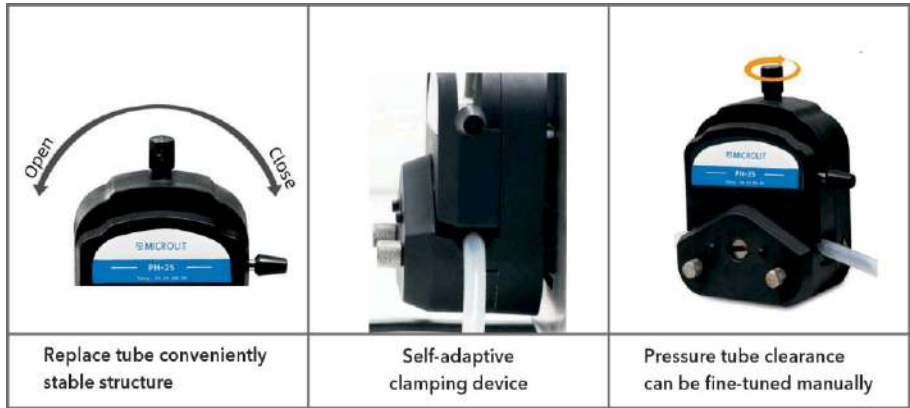
Functions & Features:

- The PH25 pump head offers a flow range of 0.024 to 3000 ml/min and is compatible with tube sizes 114#, 116#, 15#, 24#, 35#, and 36#.
- It's ideal for transporting more viscous liquids and meets the demands of a larger suction range, head, and outlet pressure.
- Equipped with a self-adjusting clamping device, it easily accommodates tubes of varying thickness without manual adjustment.
- Features a classic pump tube locking mechanism, allowing tube replacement in seconds and making it easy to handle frequent tube changes.
- Special tube pressure design reduces pump tube wear and minimizes the risk of accidental rupture from misuse.
- Tube clearance can be fine-tuned manually, allowing greater pressure capacity by reducing tube clearance, or extending tube life by increasing it. It also adapts to slight variations in tube processing accuracy.
- The shell is made of PPS high-performance plastic, with four stainless steel rollers to support high-speed, long-duration operations while minimizing transmission pulsation.
- Multiple pump heads can be stacked, with a maximum expansion of up to 4 channels.
- When two pump heads are connected in series, the rollers are offset by 45 degrees, significantly reducing fluid pulsation and increasing transmission speed.
- The PH25 pump heads is compatible with various motors, including Stepper, Servo, AC, DC, and others.

Technical Specifications:

Flow Rate	0.024~3000ml/min
Channel	1
Roller	4
Tubing Method	Whole tube
Shell Material	PPS
Pressure Tube Clearance	Adjustable
Working Environment	Within 200°C
Weight	620g
Corrosion Resistance	PPS is resistant to most acid, alkali, salt liquids and organic solvents.

Installation Diagrams:



Ordering Information:

Pump Head	Roller Material	No. of Roller(s)	No. of Channel(s)
PH-25	304 Stainless Steel	4	1

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OUR REACH



YOUR SATISFACTION IS OUR PRIORITY

Established in 1991, Microlit is one of the world's leading manufacturers & exporters of laboratory liquid handling instruments. Our product range includes micropipettes, bottle top dispensers, electronic burette, electronic pipette filling device and other micropipette accessories. With our patented products, innovative technologies & unfaltering trust of 8000+ consumers in 95+ countries, we are recognized as a respected & dependable brand in Healthcare and Lifesciences industry. Our offices are located in India (HQ), USA & Brazil. With a research-oriented & customer-centric team of product design engineers, our product design blends the best of functional performance & user experience. Our innovative products have helped us carve a niche in R&D industry while providing our users high level of precision & accuracy in their research work.

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