

Microlit

Liquid Dispensers

Microlit

BOTTLE TOP DISPENSER



SPECIALISED DESIGNED VOLUME ADJUSTMENT KNOB
Convenient and easy volume setting with minimal force required via fatigue resistant, A170 degree turn in the clockwise and anticlockwise direction to increase and decrease volume respectively.



Microlit

HIGH PRECISION MICROPIPETTES (RBO Series)



New body design with soft grip and improved ergonomics for more comfort and less fatigue during operation.



Microlit

ELECTRONIC MICROPIPETTES



Large Liquid Crystal Display
Two Line Alphabetic LCD.



Microlit

PIPETTE FILLING DEVICE



An universal silicon collet is provided to accept all standard pipettes up to 100ml. Internal springs on the collet holds the pipette firmly.



LI'LPET



Two step plunger operation facilitates sugar blow-out from the tip. Over a long dispensing time, resulting in very high accuracy & precision.



TIPS FOR MICROPIPETTES

Microlit pipette tips are available in all sizes. We recommend use of Microlit Tips with Microlit pipettes for best results.



SPECIFICATION & ORDERING INFORMATION

Model	Capacity
MT-10	10 µl (1000 µl)
MT-20	20 µl (2000 µl)
MT-50	50 µl (5000 µl)
MT-100	100 µl (10000 µl)
MT-200	200 µl (20000 µl)
MT-500	500 µl (50000 µl)
MT-1000	1000 µl (100000 µl)

STANDS FOR MICROPIPETTES

Microlit pipette stands are available in several designs for single and multiple pipettes. You can choose according to your equipment and application.



SPECIFICATION & ORDERING INFORMATION

Model	Capacity
MS-1	10 µl (1000 µl)
MS-2	20 µl (2000 µl)
MS-3	50 µl (5000 µl)
MS-4	100 µl (10000 µl)
MS-5	200 µl (20000 µl)
MS-6	500 µl (50000 µl)
MS-7	1000 µl (100000 µl)
MS-8	2000 µl (200000 µl)
MS-9	5000 µl (500000 µl)
MS-10	10000 µl (1000000 µl)
MS-11	20000 µl (2000000 µl)
MS-12	50000 µl (5000000 µl)
MS-13	100000 µl (10000000 µl)
MS-14	200000 µl (20000000 µl)
MS-15	500000 µl (50000000 µl)
MS-16	1000000 µl (100000000 µl)
MS-17	2000000 µl (200000000 µl)
MS-18	5000000 µl (500000000 µl)
MS-19	10000000 µl (1000000000 µl)
MS-20	20000000 µl (2000000000 µl)

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Microlit

fill

PIPETTE FILLING DEVICE



An universal Silicon collet is provided to accept all standard pipettes up to 100ml. Internal knurlings on the collet holds the pipette firmly.



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PIPETTE FILLING DEVICE



is a friendly, efficient and reliable electronic pipette filling instrument. Designed for ease and comfort to suit all types of liquid handling needs in every Laboratory.

FEATURES :



- Two LEDs
Red - low charging
Green - Charging status



- Continuous adjustment of pump speed during operation.



- Comfortable grip.



SPECIFICATIONS & ORDERING INFORMATION

Pipette Filling Device

Model	Description
NE-WG	White body/ Grey collet and plunger
NE-WV	White body/ Violet collet and plunger
NE-WR	White body/ Red collet and plunger





- An universal Silicon collet is provided to accept all standard pipettes up to 100ml. Internal knurlings on the collet holds the pipette firmly.



- In-line membrane filter (0.2 micron) prevents
 - a. Aerosol Contamination
 - b. Liquid from entering the equipment by accident.
- Ni-MH 3.6V rechargeable batteries are used in combination with low power consumption circuit and vacuum/pressure pump. Allows eight hours of continuous operation.
- Battery Charger is provided with all models.

- Available in attractive colour combinations.



NOTE : Battery Charger Supplied with the Instrument is Compatible with Both 220V and 110V.



Satisfaction Guaranteed

Microlit products are manufactured under strict quality control and GMP norms. However, if you are dissatisfied in any way with the operation of any Microlit product, call us or your nearest Microlit dealer for a free replacement.



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Microlit

ELECTRONIC MICROPIPETTES



Large Liquid Crystal Display
Two Line Alphanumeric LCD.



CE



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ELECTRONIC

MICROPIPETTES

Microlit Electronic Pipette is based on Stepper Motor with Microprocessor controlled piston movement. These are user friendly and offer effortless pipetting. Accuracy & Precision levels are very high and user-independent. This is a complete solution for every pipetting need.

- User friendly software.
- Easy, User friendly calibration.
- Rechargeable during operation.
- Optimized ergonomony and working comfort.
- Large Liquid Crystal Display (LCD).
- Built-in tip ejector.
- Six models cover the complete pipetting range from 0.2 μ l to 10000 μ l.

SPECIFICATIONS & ORDERING INFORMATION

Electronic Micropipettes

Model	Volume Range μ l	Inc. μ l	Acc.		CV	
			$\pm\%$	$\pm\mu$ l	$\pm\%$	$\pm\mu$ l
ME-10	0.2-10	0.05	1.2	0.12	0.8	0.08
ME-120	5-120	0.5	0.8	0.96	0.3	0.36
ME-300	20-300	1.0	0.8	2.4	0.3	0.9
ME-1000	50-1000	5.0	0.8	8	0.3	3
ME-5000	100-5000	10.0	0.8	40	0.3	15

Error limits according to the nominal capacity (=maximum volume) indicated on the instrument, obtained with instrument and distilled water at equilibrium with ambient temperature at 20° C, and with smooth, steady operation. The Error limits are well within the limits of DIN EN ISO 8655.2.

(see table 1) A= Accuracy, CV=Coefficient of variation.

Table1 - Maximum permissible errors as per ISO 8655-2

Nominal Volume	Maximum Permissible Systematic Error		Maximum permissible systematic error	
	$\pm\%$	$\pm\mu$ l	$\pm\%$	$\pm\mu$ l
10	1.2	0.12	0.8	0.08
100	0.8	0.8	0.3	0.3
200	0.8	1.6	0.3	0.6
500	0.8	4.0	0.3	1.5
1000	0.8	8.0	0.3	3.0
5000	0.8	40	0.3	15



FEATURES

Modes (Easy selection of modes from a single key)

- Standard mode
- Stepper mode
- Dilution mode
- Calibration mode

Variable Working Speeds

- Speed can be selected on a scale of 1-5.

Volume Selection

- Easy volume selection by 'UP' & 'DOWN' keys.



Large Fire Button

- Single 'FIRE BUTTON' for filling and dispensing.



Large Liquid Crystal Display

- Two line Alphanumeric LCD.



Built-in streamlined tip ejector

- For taken easy tip ejection and access to narrow naked bottles.



Calibration

- User friendly calibration mode facilitates easy calibration.

Battery

- 9V NIHM rechargeable batteries are used.
- 8 hours of operation with fully charged batteries.



Satisfaction Guaranteed

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Microdil

LI'LPET



Two-step plunger operation facilitates super blow-out from the tip (last drop dispensing), resulting in very high accuracy & precision.



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MINIATURE FIXED VOLUME

MICROPIPETTES

LI'L PET - The little Giant

These low cost miniature fixed volume pipettes are specially designed for use with Diagnostic Kits.

High volume Li'l pets of 200 μ l, 250 μ l, 500 μ l and 1000 μ l are specially designed for routine Laboratory work.



Optimum Size

- Li'l pet is 130 mm in length which is an optimum size for user comfort during pipetting.
- Li'l pet is held like a pipette and not like a syringe !!

Fully Autoclavable

Li'l pet is fully autoclavable at 121°C , 15 psi for 10-15 mins.

SPECIFICATIONS & ORDERING INFORMATION

Miniature Fixed Volume

Model	Vol. μ l	Acc. $\pm\%$	CV ●%
MM-5	5	1.5	1.0
MM-10	10	1.0	1.0
MM-20	20	0.5	0.5
MM-25	25	0.5	0.5
MM-50	50	0.4	0.3
MM-100	100	0.3	0.3
MM-200	200	0.5	0.5
MM-250	250	0.5	0.5
MM-500	500	0.5	0.5
MM-1000	1000	0.5	0.5



Unique Tip-Cone

- The tip cone of Li'lPet (5 μ l, 10 μ l, 20 μ l) is designed to accept both regular 200 μ l tips or ultra micro tips upto 20 μ l.
- Use of Ultra micro tips for volumes upto 20 μ l enhances the accuracy and precision very significantly.
- This is a unique feature that makes Li'lpet a genuine miniature micropipette.
- This also allows the Li'lpet to be used for reverse pipetting and repetitive pipetting.



Strict Quality Control

Each pipette undergoes a strict quality control at every manufacturing stage. Each pipette is individually calibrated as per ISO 8655 standards. Batch calibration certificate is provided

OEM Option Available

Custom colors are available.



Various Packaging Options

- Pack of single Li'lpet.
- Pack of 10 Li'lpets.
- Bulk Pack of 25 or 100 Li'lpets.
- Custom packaging options are also available on request.



Satisfaction Guaranteed

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HIGH VOLUME BOTTLE TOP DISPENSER

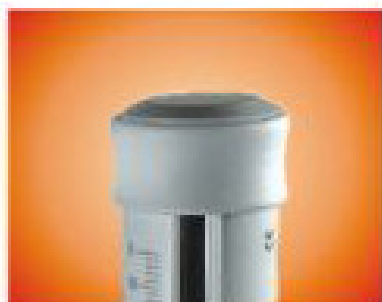
Volume Range 100- 500ml.

Answering the needs of the industry, Microlit R&D has come up with yet another state of the art product, making Microlit one of the few players catering to this market segment.

Glass Piston in glass barrel ensures extra smooth movement and reduces working force for high volume dispensing



Large Scale is provided to facilitate easy and precise volume setting.



Large Grip is specially designed for convenience while operating the instrument.



Specifications

Model No.	BTDR-7
Vol. Range	100-500 ml
Increment	5.0 ml
Accuracy $\pm\%$	0.6
Accuracy \pm ml	3.000
CV $\pm\%$	0.2
CV \pm ml	1.000

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BOTTLE TOP DISPENSER



SPECIALLY DESIGNED VOLUME ADJUSTMENT KNOB

Convenient and easy volume setting with minimal force ensuring no fatigue or strain.

A 270 degree turn in the clockwise and anticlockwise direction ensures locking and unlocking respectively.



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FULLY AUTOCLAVABLE

Microlit Bottle top dispenser is another genius of its strong R & D base. Responding to the needs of the present generation, Microlit is proud to offer its NEW BOTTLE TOP DISPENSER which is an unique combination of competitive pricing and high performance.

All wetted parts are PTFE, FEP and Borosilicate Glass only which allows the instrument to be used with wide variety of laboratory chemicals.

High precision and accuracy is ensured through careful selection of raw material and several stages of strict quality checks during manufacturing process.

Each instrument is individually calibrated in ISO 17025 accredited laboratory in accordance with ISO 8655 standards and comes with Individual Calibration certificate.

Features :

- Available in seven volume ranges :
 - a. 0.25 - 2.5 ml
 - b. 0.5 - 5 ml
 - c. 1 - 10 ml
 - d. 2.5 - 30 ml
 - e. 5 - 60 ml
 - f. 10 - 100 ml
 - g. 50 - 500 ml
- Smooth, effortless plunger movement and bubble free dispensing.
- Easy to dis-assemble for cleaning and servicing.
- Instrument is fully autoclavable at 121°C , 1.5psi. for 10 - 15 mins.



PISTON :

Specially designed PTFE Piston ensures wiper-like smooth, effortless movement and high accuracy.



GLASS BARREL PROTECTION :

Glass Barrel is protected by a polypropylene sleeve. It also ensures no glass splitting in case of any accidental breakage.

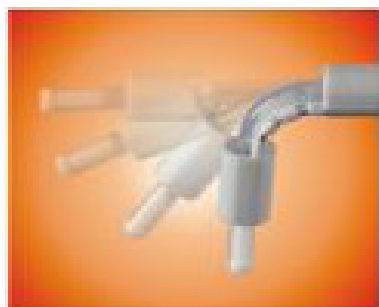


ADAPTORS :

Adaptors to fit most of the laboratory reagent bottles are provided in the following sizes : 28, 30, 32, 36, 40 & 45mm.

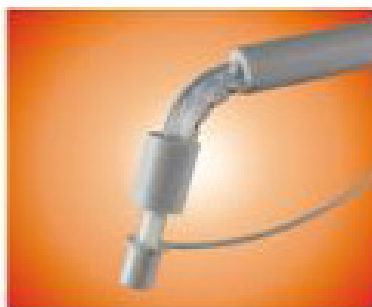
Simple, user friendly instrument suitable for all laboratory applications except HF.

Strict quality control at all steps of manufacturing ensures high reliability, accuracy and precision.



ADJUSTABLE DELIVERY NOZZLE :

Adjustable delivery nozzle to facilitate dispensing ease in all demanding laboratory conditions.



NOZZLE CAP :

Nozzle cap prevents any unwanted drop on the work space and avoids contact with hazardous chemicals.



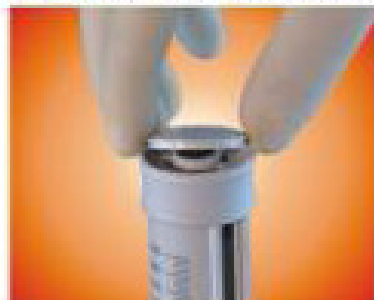
VALVE MANIFOLD :

Specially designed, springless, PTFE valve manifold ensures excellent chemical compatibility and leak proof valve functioning.

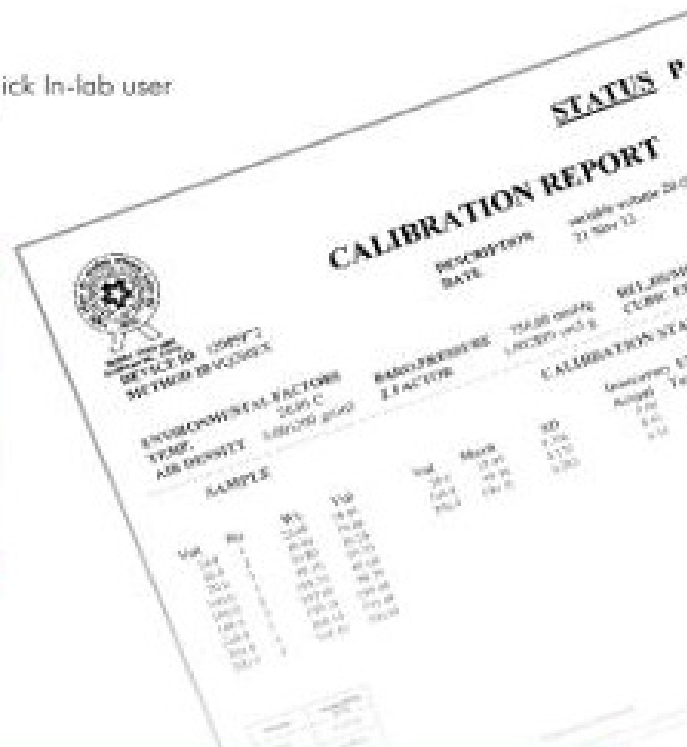
CALIBRATION :

Specially designed calibration tool is provided for convenient and quick In-lab user re-calibration. This is in compliance with GLP/ISO Norms.

Removable Cap for Calibration



Calibration Tool



COMPONENT DESCRIPTION

Component	Description
Piston	PTFE
Cylinder	Glass
Volume Adjustment Knob	Screw Type
Valve Housing	PTFE
Valve Assembly	Glass Ball & Seat
Discharge Assembly	PTFE
Delivery Tube	FEP
Inlet Tube	FEP
Calibration	Individually calibrated and certified. In-lab easy Calibration by the user is also possible.
Accuracy & Reproducibility	In accordance with ISO 8655 standards.
Compatibility	Excellent compatibility with all reagents except HF

SPECIFICATIONS & ORDERING INFORMATION

Model No.	Vol. Range	Increment	ISO 8655 Specifications				Microlit Specifications			
			Accuracy		CV		Accuracy		CV	
			±%	± ml	±%	± ml	±%	± ml	±%	± ml
BTDR-1	0.25-2.5 ml	0.05 ml	0.6	0.015	0.2	0.005	0.6	0.015	0.2	0.005
BTDR-2	0.5-5 ml	0.1 ml	0.6	0.030	0.2	0.010	0.5	0.025	0.1	0.005
BTDR-3	1-10 ml	0.2 ml	0.6	0.060	0.2	0.020	0.5	0.050	0.1	0.010
BTDR-4	2.5-30 ml	0.5 ml	0.6	0.180	0.2	0.060	0.5	0.150	0.1	0.030
BTDR-5	5-60 ml	1.0 ml	0.6	0.360	0.2	0.120	0.5	0.300	0.1	0.060
BTDR-6	10-100 ml	2.0 ml	0.6	0.600	0.2	0.200	0.5	0.500	0.1	0.100
BTDR-7	100-500 ml	5.0 ml	0.6	3.000	0.2	1.000	0.5	2.500	0.1	0.500

SPECIFICATIONS & ORDERING INFORMATION

Fully Autoclavable Variable Volume Micropipettes

Model	Volume Range	Inc. μl	A		CV	
			$\pm\%$	$\pm\mu\text{l}$	$\pm\%$	$\pm\mu\text{l}$
RBO-2	0.2 - 2.0 μl	0.002	2	0.04	1.2	0.024
RBO-10	0.5 - 10 μl	0.02	1	0.1	0.5	0.05
RBO-20	2 - 20 μl	0.02	0.8	0.16	0.4	0.08
RBO-50	5 - 50 μl	0.1	0.8	0.4	0.4	0.2
RBO-100	10 - 100 μl	0.2	0.6	0.6	0.2	0.2

Model	Volume Range	Inc. μl	A		CV	
			$\pm\%$	$\pm\mu\text{l}$	$\pm\%$	$\pm\mu\text{l}$
RBO-200	20 - 200 μl	0.2	0.6	1.2	0.2	0.4
RBO-1000	100 - 1000 μl	1.0	0.6	6	0.2	2
RBO-5000	0.5 - 5 ml	10.0	0.6	30	0.2	10
RBO-10000	1 - 10 ml	20.0	0.6	60	0.2	20

Fully Autoclavable Fixed Volume Micropipettes

Model	Vol. μl	A		CV	
		$\pm\%$	$\pm\mu\text{l}$	$\pm\%$	$\pm\mu\text{l}$
RBO-F-1	1.0	5	0.05	5	0.05
RBO-F-2	2.0	4	0.08	2	0.04
RBO-F-5	5.0	2	0.1	1	0.05
RBO-F-10	10.0	1	0.1	0.5	0.05
RBO-F-20	20.0	0.8	0.16	0.4	0.08
RBO-F-25	25.0	0.8	0.2	0.4	0.1
RBO-F-50	50.0	0.8	0.4	0.4	0.2
RBO-F-100	100.0	0.6	0.6	0.2	0.2

Model	Vol. μl	A		CV	
		$\pm\%$	$\pm\mu\text{l}$	$\pm\%$	$\pm\mu\text{l}$
RBO-F-200	200.0	0.6	1.2	0.2	0.4
RBO-F-250	250.0	0.6	1.5	0.2	0.5
RBO-F-500	500.0	0.6	3	0.2	1
RBO-F-1000	1000.0	0.6	6	0.2	2
RBO-F-2000	2000.0	0.6	12	0.2	4
RBO-F-5000	5000.0	0.6	30	0.2	10
RBO-F-10000	10000.0	0.4	40	0.2	20

8-channel Fully Autoclavable Micropipette

Model	Volume Range	Inc. μl	A		CV	
			$\pm\%$	$\pm\mu\text{l}$	$\pm\%$	$\pm\mu\text{l}$
RBO-MCA/8	0.5 - 10 μl	0.1	1.6	0.16	1	0.1
RBO-MCA/8	0.2 - 20 μl	0.1	0.8	0.16	0.4	0.08
RBO-MCA/8	0.5 - 50 μl	1.0	0.8	0.4	0.4	0.2
RBO-MCA/8	10 - 100 μl	1.0	0.8	0.8	0.3	0.3
RBO-MCA/8	20 - 200 μl	1.0	0.8	1.6	0.3	0.6
RBO-MCA/8	40 - 300 μl	1.0	0.8	2.4	0.3	0.9

12-channel Fully Autoclavable Micropipette

Model	Volume Range	Inc. μl	A		CV	
			$\pm\%$	$\pm\mu\text{l}$	$\pm\%$	$\pm\mu\text{l}$
RBO-MCA/12	0.5 - 10 μl	0.1	1.6	0.16	1	0.1
RBO-MCA/12	0.2 - 20 μl	0.1	0.8	0.16	0.4	0.08
RBO-MCA/12	0.5 - 50 μl	1.0	0.8	0.4	0.4	0.2
RBO-MCA/12	10 - 100 μl	1.0	0.8	0.8	0.3	0.3
RBO-MCA/12	20 - 200 μl	1.0	0.8	1.6	0.3	0.6
RBO-MCA/12	40 - 300 μl	1.0	0.8	2.4	0.3	0.9

Error limits according to the nominal capacity (= maximum volume) indicated on the instrument, obtained with instrument and distilled water at equilibrium with ambient temperature at 20 °C, and with smooth, steady operation. The error limits are well within the limits of DIN EN ISO 8655-2. (See Table 1) A = Accuracy, CV = Coefficient of variation.

Table 1- Maximum permissible errors as per ISO 8655-2

Nominal volume	Maximum permissible systematic error		Maximum permissible random error	
	$\pm\%$	$\pm\mu\text{l}$	$\pm\%$	$\pm\mu\text{l}$
1	5.0	0.05	5.0	0.05
2	4.0	0.08	2.0	0.04
5	2.5	0.125	1.5	0.075
10	1.2	0.12	0.8	0.08
20	1.0	0.2	0.5	0.1
50	1.0	0.5	0.4	0.2
100	0.8	0.8	0.3	0.3
200	0.8	1.6	0.3	0.6
500	0.8	4.0	0.3	1.5
1000	0.8	8.0	0.3	3.0
2000	0.8	16	0.3	6.0
5000	0.8	40	0.3	15.0
10000	0.6	60	0.3	30.0

Single Channel Fixed & Variable Volume Micropipettes : In the conformity test, the maximum permissible errors for the nominal volumes in Tables 1 apply to every selectable volume throughout the useful volume range of the piston pipette; i.e. the maximum permissible systematic errors of variable-volume piston pipette with a useful volume range of 10 μl to 100 μl are $\pm 0.8 \mu\text{l}$ and the maximum permissible random errors are $\pm 0.3 \mu\text{l}$ for every measured volume.

Multichannel Micropipettes : The maximum permissible systematic and random errors of multi-channel piston pipettes shall be equal to twice the values specified in Table 1 for single-channel piston pipettes. Each channel of the multi-channel piston pipette, considered independently, shall meet these specifications.

Microdil

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New body design with soft grip and improved ergonomics for more comfort and less fatigue during operation.

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FIXED VOLUME

FULLY AUTOCLAVABLE

Fixed Volume Pipettes are designed for many different types of routine laboratory work. Using the same state-of-art design and basic features of Variable Volume Pipettes, these fixed volume pipettes are ideal for Clinical Diagnostics, Control Analysis etc.

COLOUR CODING :

Attractive colour coding for easy identification between different volume ranges.



LARGE GRIPPY :

Specially designed large grippy is provided for comfortable grip and ease during working.



TIP EJECTOR :

Built-in streamlined tip ejector facilitates easy tip ejection and access to narrow necked bottles and tubes.



USER ADJUSTMENT :

Re-calibration can be performed easily by the user.

VARIABLE VOLUME

FULLY AUTOCLAVABLE

In order to keep pace with the rapid progress made in research sector in recent years, MICROLIT has made one logical step further and proudly presents the new, high precision micropipette series for today's sophisticated users in the field of Molecular biology, Microbiology, Immunology, cell culture, Analytical Chemistry, Biochemistry, Genetics etc.

FEATURES :

- High quality spring mechanism ensures softer plunger movement.
- Nine volume ranges cover the complete pipetting range from 0.2 μ l to 10 ml offering a wide choice to select the most suitable model for any application.



EASY VOLUME ADJUSTMENT :

Easy Volume Adjustment by simply turning the plunger. Plunger does not snag gloves.



VOLUME SETTING :

Soft click sound at every increment ensures perfect volume setting and no accidental volume change. It also facilitates single handed operation.



SOFT GRIP & ERGONOMIC DESIGN:

New body design with soft grip and improved ergonomics for more comfort and less fatigue during operation.



DIGITAL DISPLAY :

4 digit display with sub divisions provides small volume increments.

MULTICHANNEL

MICROPIPETTES FULLY AUTOCLAVABLE

Recommended for ELISA, Molecular screening, Kinetic studies, DNA amplifications etc.



8-CHANNEL



12-CHANNEL



TIP EJECTION KNOB :

Placement and good design allows easy single handed tip ejection.



PIPETTE HOLDER :

The holder provided with the pipette allows easy, efficient and safe storage.



EASY TIP EJECTION :

Specially designed sequential tip ejector allows effortless tip ejection.



OPERATION FLEXIBILITY :

Lower housing can be rotated 360° providing flexibility during operation.

Satisfaction Guaranteed

Microlit products are manufactured under strict quality control and GMP norms. However, if you are dissatisfied in any way with the operation of any Microlit product, call us or your nearest Microlit dealer for a free replacement.



ISO 9001:2008



Deutsche
Akkreditierungsstelle



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STANDS FOR MICROPIPETTES

Microlit Pipette stands are available in several designs for single channel and Multichannel pipettes. You can choose according to your requirement and application.



MS-I



MS-II



MS-III



MS-IV



MS-V

SPECIFICATIONS & ORDERING INFORMATION

Stands for Micropipettes

Model	Description
MS-I	Stand for three Pipettes
MS-II	Stand for six Pipettes
MS-III	Stand for 8-Channel Pipettes
MS-IV	Stand for 12-Channel Pipettes
MS-V	Stand for one Pipettes (Modular)

TIPS FOR MICROPIPETTES

Microlit high precision tips are available in all sizes. We recommend use of Microlit Tips with Microlit Pipettes for best results.

MT-IV



MT-V



MT-II



MT-I



MTSP



SPECIFICATIONS & ORDERING INFORMATION

Tips for Micropipettes

Model	Description
MTSP	Capacity upto 10 μ l Pkt. of 100 Nos.
MT-I	Capacity upto 200 μ l Pkt. of 1000 Nos.
MT-II	Capacity upto 1000 μ l Pkt. of 1000 Nos.
MT-V	Capacity upto 5000 μ l Pkt. of 100 Nos.
MT-IV	Capacity upto 10000 μ l Pkt. of 100 Nos.