

# MICROLITEASYAID

Electronic Pipette Filler with Force Touch Technology  
and Solenoid Valve



ISO 13485

ISO 17025

# Introducing Microlit EASYAID Electronic Pipette Filler

## USE OF HALL SENSORS FOR FORCE TOUCH TECHNOLOGY

The plunger buttons have magnets that interact with hall sensors mounted on the PCB to control the speed of aspiration and dispensing in an electronic pipette filler.

## USAGE OF SOLENOID VALVE

The usage of Solenoid Valve system allows lab scientists to fill/dispense serological pipettes accurately and makes experiments more time-efficient.

## IN-LINE MEMBRANE FILTER

A PTFE Hydrophobic In-Line Membrane Filter (0.2 microns) prevents aerosol contamination and accidental liquid entry.

## UNIVERSAL SILICON COLLET ADAPTER

The universal silicon adapter with internal knurling that can easily accommodate glass/plastic pipettes from 1 ml to 100 ml and hold them firmly during various liquid handling operations.

## 1-INCH TEMPERED OLED SCREEN

Large easy-to-read monochrome display screen adds a layer of protection against accidental impacts, scratches and chemical spills.



OLED SCREEN VIEW



## UNIQUE GRAVITY DISPENSE MODE

When the dispenser plunger is pressed slightly, the pipette filler will dispense in Gravity Mode whereby the pump is not activated but the dispense valve is operational.

## PROGRAMMED PIPETTE SELECTION FOR SMOOTH FUNCTIONING

The user may select the capacity of serological pipette to adjust the fill and dispense speed range of operation from 1 ml, 2 ml, 5 ml, 10 ml, 25 ml, 50 ml and 100 ml.

## PRESSURE SPEED CONTROL

The user may control the speed of aspiration and dispensing by adjusting the applied pressure on the plunger buttons.

## AUTOCCLAVABLE AT 121° C

The collet assembly and 0.2 microns In-Line Membrane Filter, contained within it, are fully autoclavable at 121° C temperature and 15 psi for 10-15 minutes.

# Revolutionizing Pipetting with Force Touch Technology

In the realm of laboratory work, precision and efficiency are paramount, Microlit EASYAID Electronic Pipette Filler stands at the forefront of innovation. Designed to streamline pipetting processes while maintaining utmost accuracy, this cutting-edge instrument integrates solenoid valve, setting a new standard in pipette control and user experience.

With its innovative force touch interface, magnetic plunger buttons and hall sensor integration, the EASYAID empowers researchers and laboratory professionals to tackle complex pipetting tasks with confidence and efficiency, driving scientific progress forward.

## MICROLITEASYAID

Electronic Pipette Filler redefines pipetting with Hall Effect Principle. It empowers researchers with unprecedented precision & control, driving scientific advancement.



### 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.

#### ▶ SEAMLESS CONTROL

Force Touch technology interaction allows seamless adjustment of aspiration and dispensing speed.

#### ▶ ENHANCED SAFETY

Precise control minimizes spillage risks, ensuring experimental accuracy and safety.

#### ▶ REAL - TIME SPEED ADJUSTMENT

Hall Sensors continuously monitor button movement for real-time speed adjustments.

#### ▶ LOW MAINTENANCE

Fewer components reduce maintenance needs and operational costs.

#### ▶ 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.

# Modernizing Pipetting with Solenoid Valve

## TECHNICAL SPECIFICATIONS OF MICROLIT EASYAID

Pipette Capacity Selection	The user may select the capacity of the serological pipette to adjust the fill and dispense speed range of operation. The user may select from 1 ml, 2 ml, 5 ml, 10 ml, 25 ml, 50 ml and 100 ml options.
Speed Control	The user may control the speed of aspiration and dispensing by adjusting the applied pressure on the plunger buttons.
Max Speed	The user may fill a 25 ml pipette at maximum motor speed in only 3 seconds. <b>Pipette capacity Max Speed:</b> ▶ 1 ml - 0.3 ml / sec      ▶ 10 ml - 3 ml / sec      ▶ 50 ml - 8 ml / sec ▶ 2 ml - 0.6 ml / sec      ▶ 25 ml - 8 ml / sec      ▶ 100 ml - 8 ml / sec ▶ 5 ml - 1.5 ml / sec
Gravity Dispensing	When the dispense plunger is pressed slightly, the instrument will dispense in gravity mode whereby the pump is not activated but the dispense valve is operational.
Rechargeable Battery	Lithium-ion Batteries (3.7 V/1400mAh) Recharge Time is approx. 3 hours. After this period, it will automatically enable 'Smart Charge' to pause charging and switches to low maintenance. A fully charged battery will enable upto 8 hours of continuous use.
Charging Options	Direct charging (with/without stand) Charge via micro-USB port on the instrument with a standard 5V charging adaptor. The battery is removable as per users' discretion for recharging.
Wall Stand	No
Self Standing	Yes
Battery Status Indication	LED indication for low battery (red), charging (yellow), Yellow LED turns off when battery is fully charged.
Display Type	1" monochrome OLED screen.
Stand	A complimentary stand is included in the packaging box.
Weight	238 gm.
Autoclavable	The Collet Assembly and the 0.2 microns In-line Membrane Filter, contained within it, are fully autoclavable at 121°C temperature and 15 psi for a duration of 10-15 minutes.
In-Line Membrane Filter Included	A PTFE Hydrophobic In-line Membrane Filter (0.2 microns) prevents aerosol contamination and liquids from accidental liquid entry.
Universal for all serological pipettes	Universal Silicon Collet Adapter with internal knurling holds all pipettes firmly, and can easily accommodate pipettes from 1 ml to 100 ml.

## COLOR CODING FOR EASY IDENTIFICATION



Model No: EA-G  
Grey and White Body  
Grey Collet and Plunger



Model No: EA-R  
Grey and White Body  
Red Collet and Plunger



Model No: EA-V  
Grey and White Body  
Violet Collet and Plunger



Model No: EA-GR  
Grey and White Body  
Green Collet and Plunger



Model No: EA-B  
Grey and White Body  
Blue Collet and Plunger

# State-of-the-Art Design to Perform Sensitive Laboratory Operations with Assurance

## Microlit EASYAID is an electronic pipette filler, a powerful blend of sophisticated features and functionality

Designed by our in-house team of product design engineers with ergonomics and intuitive handling in mind, it is equipped with Force Touch Technology and Solenoid Valve. Microlit EASYAID helps in performing various sensitive operations with high precision, accuracy and reliability in practical laboratory environments. These instruments facilitate remarkable user experience with ease.

The EASYAID represents a groundbreaking leap in pipetting technology, offering unparalleled precision, control and user convenience, transforming laboratory workflows and accelerating scientific discovery.

### Our Valued Customers

Academia	Pharmaceutical	Hospitals / Medical Colleges	Food & Beverages	Agriculture
Research Institutes	FMCG	Cement	Chemicals	Natural Resources

### Award-winning Design and Product Excellence



Microlit has been recognized for its innovation and leadership with several prestigious awards, including the Japanese Good Design Award, CII Industrial Innovation Awards, and a spot in the Top 50 Most Innovative Companies of 2022. This year, we proudly received the Global Business Leadership Award from ET Now Leaders of Tomorrow 2025, further solidifying our position as a global leader in Healthcare and Life Sciences Industry.

EXPERIENCE PRECISION



## 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 & unflinching 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.

## CONTACT US

### **Microlit INDIA**

629 Pakramau, Kursi Road, Lucknow 226026, India  
Phone: +91 9918625629, Email: [info@microlit.com](mailto:info@microlit.com)  
[www.microlit.com](http://www.microlit.com)

### **Microlit USA**

33 Wood Avenue South, Suite 600, Iselin, NJ 08830, USA  
Phone: +1 732 321 0852, Email: [info-usa@microlit.com](mailto:info-usa@microlit.com)  
[www.microlit.us](http://www.microlit.us)

### **Microlit LATAM**

Business Place Ibirapuera, 9th Floor, Number 93,  
Alameda dos Jurupis 1005 - Moema,  
Indianópolis São Paulo, Brasil CEP - 04088-000,  
Phone: +55 11 93269-5932, Email: [info-latam@microlit.com](mailto:info-latam@microlit.com)

### Follow us

