

Pipette Performance Data Sheet



Eppendorf Xplorer® plus Move It®

Are you frustrated with the challenges of pipetting samples across different vessel formats, which prevent you from using a standard multi-channel pipette? Fret not – Eppendorf has your solution with the Eppendorf Xplorer plus Move It electronic multi-channel pipettes featuring adjustable tip spacing. Like the mechanical Research® plus Move It models, these pipettes accelerate and simplify the synchronous pipetting of a series of samples. The electronic Xplorer plus Move It models not only provide precision and durability but also introduce enhanced ergonomics and versatility with additional pipetting modes, such as multi-dispensing.

Features

- > 4-, 6-, 8- and 12-channel air-cushion pipettes with variable volume and adjustable tip spacing option
- > Intuitive handling via multi-function rocker with »up is up« (aspiration) and »down is down« (dispensing) logic and selection dial to access all pipetting modes
- > Manual adjustment knob for smooth vibration-free format switches and liquid transfers without dripping
- > Format limiter for quick switches backwards and forwards between source and destination formats
- > Individual programming, fixed volume settings, password protection, display of service intervals
- > Autoclavable lower parts for increased user and sample safety
- > 360° rotatable pipette head for comfortable readability of display and fast identification of parameters
- > Also available as mechanical Eppendorf Research® plus Move It pipettes with adjustable tip spacing

Technical Specifications

Intended use	Electronic multi-channel pipette for general laboratory use. Designed to quickly transfer several samples between different vessel formats
Pipetting type	Air-cushion pipette
Channel options	4, 6, 8, 12 with adjustable cone spacing
Volume range	1 µL – 1,200 µL
Volume increments	0.02 µL – 1 µL
Operation	> Electronic (pipetting & settings) > Manual (tip spacing adjustment)
Pipetting modes	9 (see Applications)
Aspiration & dispensing speed	8 levels
Display languages	Chinese, Dutch, English, French, German, Italian, Japanese, Portuguese, Spanish
Autoclavable	Lower parts (121 °C, 1 bar, 20 min)
UV resistance	Yes (254 nm)
Consumables	ep.T.I.P.S.® pipette tips
Open system (3rd party consumables)	Yes
Conforms with	ISO 8655
Temporary adjustment	> Pre-programmed adjustments for liquid types, altitude or elongated pipette tips > Individual adjustments in 1, 2 or 3 points
Power supply	Power supply/mains with plug adapters included (100-240 V ± 10 %, 50-60 Hz)
Battery type	Rechargeable lithium polymer (3.7 V)
Charging ports	> Connector socket for plug > Charging contacts for Carousel or Stand
Interface	Micro USB (for software updates)
Storage accessories (sold separately)	> Charger Carousel for 6 pipettes > Charger Stand > Pipette Holder for Carousel, Stand or wall mounting
Storage & transport conditions	> Temperature: -5 °C – 45 °C > Humidity: 10 % – 95 %
Operating conditions	> Temperature: 5 °C – 40 °C > Humidity: 10 % – 95 %
Others	> Easy and fast tip spacing between 4.5 mm (min) and 33 mm (max) depending on the model > No tube connections between cone and piston-cylinder system for increased reliability and safety

Applications

- > Efficiency gains in all applications with frequent vessel format changes, i.a. ELISA, cell culture, PCR, genotyping, blood analysis, FACS analysis, media transfer, dilution series, screening
- > Automated (forward) pipetting of liquids (**Pip**)
- > Reverse pipetting (**Spc**) for non-aqueous solutions
- > Dispensing (**Dis**) to quickly fill plates, gels, and reaction vessels
- > Automatic dispensing (**Ads**) for automated filling of plates, gels, and reaction vessels
- > Pipetting and mixing (**P/M**) for automated mixing of samples
- > Manual pipetting (**Man**) for volume determination
- > Multi aspiration (**Spc**): Pooling supernatants from different vessels
- > Sequential dispensing and pipetting (**Spc**) for user-defined volume steps
- > Diluting (**Spc**) for preparation of dilution series
- > Fix volume (**Fix**): Save up to 10 volumes for ease of operation

Dimensions

Length	290 mm (8-channel, 100 µL)
Weight	307 g (8-channel, 100 µL)
Packaging (W x H x D)	32 cm x 16 cm x 12 cm
Shipping weight	913 g – 1 kg (depending on model)

Measurement Deviations

Eppendorf Xplorer® plus Move It®, adjustable multi-channel, incl. mains/power supply with plug adapters

Volume range/channel	Color code	Volume	Systematic error ¹⁾		Random error ¹⁾	
1 – 20 µL 8/12-channel	■ light pink (for epT.I.P.S.® 384, 20 µL)	2 µL	±8 %	±0.16 µL	±5 %	±0.1 µL
		10 µL	±4 %	±0.4 µL	±2 %	±0.2 µL
		20 µL	±2 %	±0.4 µL	±1 %	±0.2 µL
5 – 100 µL 8/12-channel	■ light yellow (for epT.I.P.S.® 384, 100 µL)	10 µL	±3 %	±0.3 µL	±2 %	±0.2 µL
		50 µL	±1.2 %	±0.6 µL	±0.8 %	±0.4 µL
		100 µL	±1 %	±1 µL	±0.6 %	±0.6 µL
30 – 300 µL 4/6/8-channel	■ orange (for epT.I.P.S.®, 300 µL)	30 µL	±3 %	±0.9 µL	±1 %	±0.3 µL
		150 µL	±1 %	±1.5 µL	±0.5 %	±0.75 µL
		300 µL	±0.6 %	±1.8 µL	±0.25 %	±0.75 µL
120 – 1,200 µL 4/6/8-channel	■ green (for epT.I.P.S.®, 1,250 µL)	120 µL	±6 %	±7.2 µL	±0.9 %	±1.08 µL
		600 µL	±2.7 %	±16.2 µL	±0.4 %	±2.4 µL
		1200 µL	±1.2 %	±14.4 µL	±0.3 %	±3.6 µL

¹⁾ The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

Your local distributor: www.eppendorf.com/contact
Eppendorf SE · 22339 Hamburg · Germany
E-mail: eppendorf@eppendorf.com

www.eppendorf.com

For more information and article numbers, visit

www.eppendorf.com/move-it-pipette

