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)
Pipette Manager enabled	Yes (sold separately)
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	epT.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	■ light pink	2 µL	±8 %	±0.16 µL	±5 %	±0.1 µL
8/12-channel	(for epT.I.P.S.® 384, 20 µL)	10 µL	±4 %	±0.4 µL	±2 %	±0.2 µL
		20 µL	±2 %	±0.4 µL	±1 %	±0.2 µL
5 – 100 µL	■ light yellow	10 µL	±3 %	±0.3 µL	±2 %	±0.2 µL
8/12-channel	(for epT.I.P.S.® 384, 100 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	■ orange	30 µL	±3 %	±0.9 µL	±1 %	±0.3 µL
4/6/8-channel	(for epT.I.P.S.®, 300 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	■ green	120 µL	±6 %	±7.2 µL	±0.9 %	±1.08 µL
4/6/8-channel	(for epT.I.P.S.®, 1,250 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.

For more information and article numbers, visit

www.eppendorf.com/move-it-pipette