

# Thermo Scientific E1-ClipTip Electronic pipettes

The Thermo Scientific™ E1-ClipTip™ pipette combines interlocking technology that ensures secure tip attachment with the efficiency of electronic pipetting action. Increase productivity with an intuitive personalized user interface that allows for simple or complex use depending on the application.

### Feel the assurance.

Achieve newfound confidence knowing that once attached, your tips are locked firmly in place and will not fall off. Users have full tip control throughout pipetting cycles, as pipette tips will only release when ejected.

### A secure seal for every sample.

The unique interlock\* design ensures the pipette and tip form a complete seal to secure the sample volume in each tip for enhanced accuracy and precision.

### Go beyond limitations.

Revolutionize the way you pipette by leveraging the My Pipette™ Creator application in the Thermo Fisher Cloud. Create and share programs, download pre-written protocols, and transfer programs to and from your pipette via a Bluetooth\*\* or USB connection.

### Ideal solution for complex protocols.

Designed for optimum comfort and ease of use, the electronic tip ejection and index finger pipetting action let your thumb relax during pipetting and reduce the risk of Repetitive Strain Injury (RSI).

### Adjustable tip spacing.

Perform sample transfers between virtually any tube, rack, microplate or horizontal gel box. Instantly save time and increase productivity simply by sliding the scale to expand and contract tips to your desired labware setting.

### Two operating options ensure optimal function for every application.

Choose a step based Matrix or Presets with settings for your most common applications.

### Unified Operation.

Customized user interface, five different user profiles, and password protection ensure consistent operation among multiple users.

### Extended 2-year warranty.

With convenient online registration.\*\*\*



Creating programs in the My Pipette Creator app is simple and efficient.





\*E1-ClipTip 12.5 and all 384 E1-ClipTip pipettes utilize snap and lip tip fitting technology.

\*\*Bluetooth models available in following countries: Andorra, Australia, Austria, Belgium, Bulgaria, Canada, China, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, India, Ireland, Italy, Japan, Korea (Rep. of), Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, San Marino, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom, United States and Vatican. For other countries catalog numbers without 'BT' extension should be used.

\*\*\*E1-ClipTip electronic pipettes are warranted to be free from defects in material and workmanship for a period of two years from date of purchase. Two-year warranty applies for pipettes that have been registered, one-year warranty for non-registered. To register, visit [www.thermoscientific.com/pipettewarranty](http://www.thermoscientific.com/pipettewarranty)

# Thermo Scientific ClipTip Electronic Pipettes

## E1-ClipTip Single Channel Pipette Specifications\*

Catalog Number**	Description	Color Key	Channels	Volume Range	Increment (µl)	Volume (µl)			Inaccuracy		Imprecision		Compatible ClipTip
									(µl)	%	s.d.*** (µl)	cv%	
4670000BT	E1-ClipTip 0.5-12.5 µl BT		1-ch	0.5-12.5 µl	0.01	12.5	0.125	1.00	0.050	0.40	ClipTip 12.5		
						6.25	0.063	1.00	0.050	0.80			
						1.25	0.050	4.00	0.050	4.00			
4670020BT	E1-ClipTip 2-125 µl BT		1-ch	2-125 µl	0.1	125.0	0.75	0.60	0.25	0.20	ClipTip 200		
						62.5	0.375	0.60	0.125	0.20			
						12.5	0.30	2.40	0.10	0.80			
4670030BT	E1-ClipTip 10-300 µl BT		1-ch	10-300 µl	0.1	300.0	1.8	0.60	0.45	0.15	ClipTip 300		
						150.0	0.9	0.60	0.225	0.15			
						30.0	0.5	1.67	0.15	0.50			
4670040BT	E1-ClipTip 15-1250 µl BT		1-ch	15-1250 µl	1	1250.0	6.0	0.48	1.625	0.13	ClipTip 1250		
						625.0	3.125	0.50	0.813	0.13			
						125.0	3.0	2.40	0.6	0.48			

## E1-ClipTip Multichannel Pipette Specifications\*











Catalog Number**	Description	Color Key	Channels	Volume Range	Increment (µl)	Volume (µl)			Inaccuracy		Imprecision		Compatible ClipTip
									(µl)	%	s.d.*** (µl)	cv%	
4671000BT	E1-ClipTip 8-ch 0.5-12.5 µl BT		8-ch	0.5-12.5 µl	0.01	12.5	0.313	2.50	0.200	1.60	ClipTip 12.5		
						6.25	0.156	2.50	0.150	2.40			
						1.25	0.150	12.00	0.150	12.00			
4671040BT	E1-ClipTip 8-ch 2-125 µl BT		8-ch	2-125 µl	0.1	125.00	2.50	2.00	0.75	0.60	ClipTip 200		
						62.50	1.25	2.00	0.80	1.28			
						12.50	1.00	8.00	0.50	4.00			
4671070BT	E1-ClipTip 8-ch 10-300 µl BT		8-ch	10-300 µl	0.1	300.00	6.0	2.00	1.8	0.60	ClipTip 300		
						150.00	3.0	2.00	1.2	0.80			
						30.00	1.5	5.00	0.6	2.00			
4671100BT	E1-ClipTip 8-ch 15-1250 µ BT I		8-ch	15-1250 µl	1	1250.00	18.0	1.44	7.50	0.60	ClipTip 1250		
						625.00	9.375	1.50	3.75	0.60			
						125.00	5.0	4.00	1.88	1.50			
4671010BT	E1-ClipTip 12-ch 0.5-12.5 µl BT		12-ch	0.5-12.5 µl	0.01	12.50	0.313	2.50	0.200	1.60	ClipTip 12.5		
						6.25	0.156	2.50	0.150	2.40			
						1.25	0.150	12.00	0.150	12.00			
4671050BT	E1-ClipTip 12-ch 2-125 µl BT		12-ch	2-125 µl	0.1	125.00	2.50	2.00	0.75	0.60	ClipTip 200		
						62.50	1.25	2.00	0.80	1.28			
						12.50	1.00	8.00	0.50	4.00			
4671080BT	E1-ClipTip 12-ch 10-300 µl BT		12-ch	10-300 µl	0.1	300.00	6.0	2.00	1.80	0.60	ClipTip 300		
						150.00	3.0	2.00	1.20	1.28			
						30.00	1.5	5.00	0.60	4.00			
4671090BT	E1-ClipTip 12-ch 30-850 µl BT		12-ch	30-850 µl	1	850.00	12.75	1.50	5.10	0.60	ClipTip 1000		
						425.00	6.375	1.50	2.55	0.60			
						85.00	4.0	4.71	1.70	2.00			
4671020BT	E1-ClipTip 16-ch 0.5-12.5 µl BT		16-ch	0.5-12.5 µl	0.01	12.50	0.313	2.50	0.20	1.60	ClipTip 384 12.5		
						6.25	0.156	2.50	0.150	2.40			
						1.25	0.150	12.00	0.150	12.00			
4671030BT	E1-ClipTip 16-ch 1-30 µl BT		16-ch	1-30 µl	0.01	30.00	0.60	2.00	0.27	0.90	ClipTip 384 30		
						15.00	0.30	2.00	0.30	2.00			
						3.00	0.30	10.00	0.21	7.00			
4671060BT	E1-ClipTip 16-ch 2-125 µ BT		16-ch	2-125 µl	0.1	125.00	2.50	2.00	0.75	0.60	ClipTip 384 125		
						62.50	1.25	2.00	0.80	1.28			
						12.50	1.00	8.00	0.50	4.00			

\*Factory calibration limits achieved under strictly controlled conditions with forward pipetting technique (ISO 8655).

\*\*Bluetooth models available in following countries: Andorra, Australia, Austria, Belgium, Bulgaria, Canada, China, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hong Kong, Hungary, Iceland, India, Ireland, Italy, Japan, Korea (Rep. of), Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, San Marino, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, Taiwan, United Kingdom, United States and Vatican. For other countries catalog numbers without 'BT' extension should be used.

\*\*\*s.d. = Standard deviation; cv = Coefficient of variation

## E1-ClipTip Adjustable Tip Spacing Equalizer Multichannel Pipette Specifications\*

Catalog Number**	Description	Color Key	Channels/ Tip Spacing Model	Volume Range	Increment (µl)	Tip Spacing Range Min - Max (mm)	Transfer Liquids		Volume (µl)	Inaccuracy		Imprecision		Compatible ClipTip
							To/From	From/To		(µl)	(µl)	%	s.d.*** (µl)	
4672090BT	E1-ClipTip Equalizer 6-ch 15-1250 µl BT		6-ch/96	15-1250 µl	1	9.0-19.8	96-well microplates	Test tube racks	1250.0	18.00	1.44	7.50	0.60	ClipTip 1250
							Deepwell blocks	24-well microplates	625.0	9.375	1.50	3.75	0.60	
									125.0	5.00	4.00	1.88	1.50	
4672050BT	E1-ClipTip Equalizer 8-ch 2-125 µl BT		8-ch/96	2-125 µl	0.1	9.0-14.2	96-well microplates	Micro-centrifuge tube racks	125.0	2.50	2.00	0.75	0.60	ClipTip 200
							Deepwell blocks	48-well microplates	62.5	1.25	2.00	0.80	1.28	
									12.5	1.00	8.00	0.50	4.00	
4672080BT	E1-ClipTip Equalizer 8-ch 10-300 µl BT		8-ch/96	10-300 µl	0.1	9.0-14.2	96-well microplates	Micro-centrifuge tube racks	300.0	6.00	2.00	1.80	0.60	ClipTip 300
							Deepwell blocks	48-well microplates	150.0	3.00	2.00	1.20	0.80	
									30.0	1.50	5.00	0.60	2.00	
4672100BT	E1-ClipTip Equalizer 8-ch 15-1250 µl BT		8-ch/96	15-1250 µl	1	9.0-14.2	96-well microplates	Micro-centrifuge tube racks	1250.0	18.00	1.44	7.50	0.60	ClipTip 1250
							Deepwell blocks	48-well microplates	625.0	9.375	1.50	3.75	0.60	
									125.0	5.00	4.00	1.88	1.50	
4672010BT	E1-ClipTip Equalizer 384 8-ch 0.5-12.5µl BT		8-ch/384	0.5-12.5 µl	0.01	4.5-14.2	384 microplates	96-and 48-well microplates	12.5	0.313	2.50	0.200	1.60	ClipTip 384 12.5
									6.25	0.156	2.50	0.150	2.40	
							384 PCR Plates	Deepwell blocks	1.25	0.150	12.00	0.150	12.00	
							Agarose Gels	Micro-centrifuge tube racks						
4672030BT	E1-ClipTip Equalizer 384 8-ch 1-30 µl BT		8-ch/384	1-30 µl	0.01	4.5-14.2	384 microplates	96-and 48-well microplates	30.0	0.60	2.00	0.27	0.90	ClipTip 384 30
									15.0	0.30	2.00	0.30	2.00	
							384 PCR Plates	Deepwell blocks	3.00	0.30	10.00	0.21	7.00	
							Agarose Gels	Micro-centrifuge tube racks						
4672060BT	E1-ClipTip Equalizer 384 8-ch 2-125 µl BT		8-ch/384	2-125 µl	0.1	4.5-14.2	384 microplates	96-and 48-well microplates	125.0	2.50	2.00	0.75	0.60	ClipTip 384 125
									62.5	1.25	2.00	0.80	1.28	
							384 PCR Plates	Deepwell blocks	12.5	1.00	8.00	0.50	4.00	
							Agarose Gels	Micro-centrifuge tube racks						
4672020BT	E1-ClipTip Equalizer 384 12-ch 0.5-12.5 µl BT		12-ch/384	0.5-12.5 µl	0.01	4.5-9.0	384 microplates	96-well microplates	12.5	0.313	2.50	0.200	1.60	ClipTip 384 12.5
									6.25	0.156	2.50	0.150	2.40	
							384 PCR Plates	Deepwell blocks	1.25	0.150	12.00	0.150	12.00	
							Agarose Gels	Deepwell blocks						
4672040BT	E1-ClipTip Equalizer 384 12-ch 1-30 µl BT		12-ch/384	1-30 µl	0.01	4.5-9.0	384 microplates	96-and microplates	30.0	0.60	2.00	0.27	0.90	ClipTip 384 30
									15.0	0.30	2.00	0.30	2.00	
							384 PCR Plates	Deepwell blocks	3.0	0.30	10.00	0.21	7.00	
							Agarose Gels	Deepwell blocks						
4672070BT	E1-ClipTip Equalizer 384 12-ch 2-125 µl BT		12-ch/384	2-125 µl	0.1	4.5-9.0	384 microplates	96-well microplates	125.0	2.50	2.00	0.75	0.60	ClipTip 384 125
									62.5	1.25	2.00	0.80	1.28	
							384 PCR Plates	Deepwell blocks	12.5	1.00	8.00	0.50	4.00	
							Agarose Gels	Deepwell blocks						

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# Technical Specifications

## Thermo Scientific E1-ClipTip Electronic Pipettes

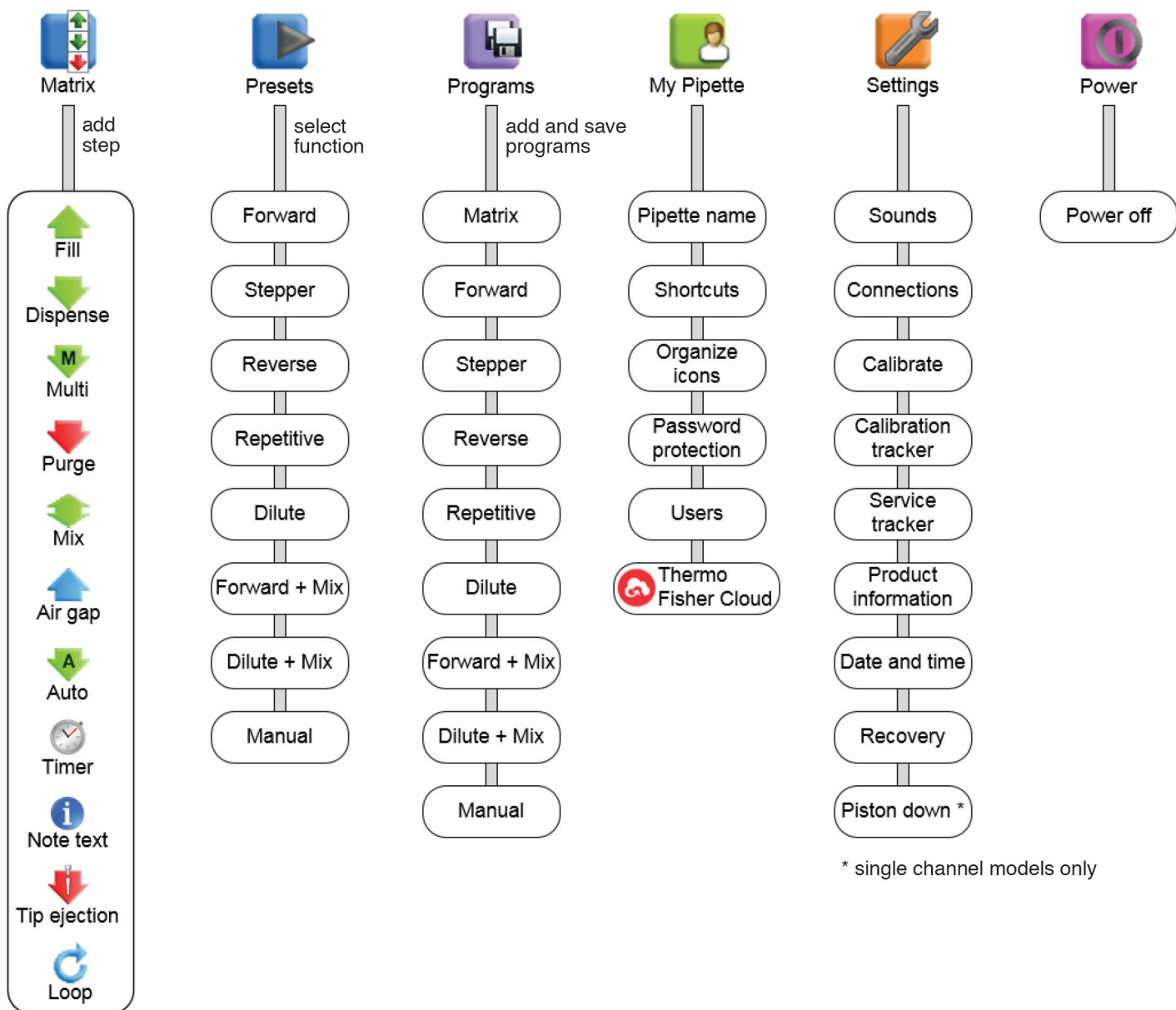
<b>Battery</b>	Type: Li-ion battery Capacity: 1280 mAh Charging time: Approx. 2 h
<b>Power supply unit</b>	Input voltage: 100-240V -50/60Hz, 400 mA Output voltage: 5.0V 800mA max
<b>Display</b>	Type: Color TFT-LCD Size: 2.2"
<b>Weight with battery</b>	Single channel pipettes ~198 g Multichannel pipettes 96-format ~ 333 g Multichannel pipettes 384-format ~ 324 g
<b>Materials: Tip fitting</b>	E1-ClipTip 125-1250 96-models: Polyphenylsulfone (PPSU); Autoclavable O-ring material FVM (fluorosilicone rubber); Autoclavable E1-ClipTip 12.5 and all 384 models: PVDF (polyvinylidenfluoride)
<b>External surfaces of the upper parts</b>	PA (polyamide) PMMA (polymethyl methacrylate) ABS (acrylonitrile butadiene styrene)
<b>Wireless connectivity of E1-ClipTip BT</b>	Type: Bluetooth® 2.1 + EDR Transmit power: 4 dBm max. / Class 2 Range: Approximately 10 m Contains transmitter module: FCC ID: T7VEBMU / IC: 216QEEMU



← Equalizer Reference Chart →



FROM/TO		6-ch	8-ch	8-ch	8-ch	8-ch 384	8-ch 384	8-ch 384	12-ch 384	12-ch 384	12-ch 384		TO/FROM	
Max. tip spacing position	mm	15-1250 µl	15-1250 µl	10-300 µl	2-125 µl	2-125 µl	1-30 µl	0.5-12.5 µl	2-125 µl	1-30 µl	0.5-12.5 µl	mm	Min. tip spacing position	
Test tube racks 24-well microplates	19.8	4672090											9	96-well microplates Deepwell blocks
Microcentrifuge tube racks 48-well microplates	14.2		4672100	4672080	4672050									
96-well microplates Deepwell blocks						4672060	4672030	4672010					4.5	384 microplates 384 PCR plates Agarose gels
96-well microplates Deepwell blocks	9								4672070	4672040	4672020			



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