

Sartorius Biohit Picus Electronic Pipettes



- Enjoy pipetting
- Achieve better results
- Learn to use it in a minute

Description

Picus electronic pipette is intended to be used in liquid handling applications for dispensing liquids in total volume range from 0.2 µl to 10 ml. It is recommended to use with Biohit Optifit and SafetySpace™ pipette tips to ensure the best possible compatibility and performance. Picus is available in single and multichannel models (8- and 12-channels).

Picus defines a new level of ergonomics, accuracy and reliability

- Smallest and lightest electronic pipette (100 g)
- Enhanced new generation DC-motor concept
- Electronic tip ejection
- One-hand adjustment wheel for scrolling menus, adjusting volume and controlling manual pipetting
- Variety of pipetting modes in user friendly interface
- Hot key - fast access for up to 10 favorite programs
- Calibration adjustment in 1-, 2- or 3-points
- Unique tracker to ease microwell plate work
- Information for the service and calibration intervals

Technical data		
Rechargeable battery	Type	Li-Polymer battery with protection circuit
	Capacity	3.7V/350mAh
	Charging time	Approx. 1 hour
AC-adaptor, Picus	For indoor and office equipment use only	
	Input voltage	100-240V~50/60Hz, 180mA
	Output voltage	5V, 1A LPS
	Plugs	EU, US/JP, UK, CHN, AUS
AC-adaptor, charging stand for 1 pipette	For indoor and office equipment use only	
	Input voltage	According to local requirements
	Output voltage	7.5 VDC/300mA
	Plugs	EU, US/JP, UK, CHN (AUS available separately requested)
AC-adaptor, charging carousel for 4 pipettes	For indoor and office equipment use only	
	Input voltage	According to local requirements
	Output voltage	9 VDC/1200mA
	Plugs	EU, US/JP, UK, CHN (AUS available separately requested)
Picus electronic pipette	Operation conditions	Temperature +15°C to +40°C Air humidity Max. 80%
	On/off switch	Yes
	Pipetting principle	Air displacement
	Weight	Single channel pipette, 10 – 300 µl 100 g Single channel pipette, 50 – 1000 µl 105 g 8-channel pipette, 10 – 300 µl 160 g

	Length	Single channel pipette, 10 – 300 µl Single channel pipette, 50 – 1000 µl 8-channel pipette, 10 – 300 µl	210 mm 216 mm 216 mm
	Battery charging indicator	Yes	
	Low battery warning	Yes	
	Pipetting force	1,3 N	
	Tip ejecting force	3,1 N	
	Pipetting modes	<p>Pipetting (tracker, mixing*, counter) Reverse pipetting (tracker, counter, excess volume adjustment) Manual pipetting Multi dispensing (tracker, excess volume adjustment, automated dispensing) Diluting (tracker) Sequential dispensing (excess adjustment) Multi aspiration Titrate (Fast volume setting**)</p> <p>*Mixing Mixing volume can be adjusted according to the pipette volume range Mixing can be performed manually or automatically</p> <p>**Fast volume setting Initial dispensing can be done rapidly and then continued for the remaining volume</p>	
	Additional pipetting functions	<p>Mixing Counter, pipetting cycles up to 99 Excess volume adjustment Microplate tracker</p>	
	Other functions	<p>Calibration adjustment: Enables user to adjust calibration in 1-, 2- and 3-point Sounds: Possible to turn on/off sounds of adjusting wheel and messages Backlight: Change the display color > Grey, yellow, orange, blue, violet, green, red User ID: Personalizes pipette with ID GLP info: Displays next and previous service and maintenance dates Reset: Reset all settings to factory settings Information: Displays the software version and battery charging level</p>	
	Memory places	Hot-key for fast access to up to 10 favorite pipetting protocols	
	Tip ejector	Electronic (unique)	
	Motor	DC-motor	

	Brake system	Electronic brake
	Error control	Yes Optical feedback system
	Autoclavability	Lower parts only (excl. 1200 µl models) 121 °C, 1 bar over pressure, 20 min
	UV sterilizing	UV-resistant materials T ested under following conditions: <ul style="list-style-type: none"> ➤ Wave length: Shortwave ultraviolet (254 nm) ➤ Power: 2x20 W (twin tubes) ➤ Distance from tube surface to table/product surface: 620 mm ➤ Fixture type: UVP XX-20S
	Disinfection	Biohit Biocontrol decontamination fluid 70 % ethanol 60 % isopropanol Mild detergents
	CE/IVD marking	Yes
	Compatible stands	Charging stand for one pipette, with AC adaptor (730981) Charging carousel for 4 pipettes, with AC adaptor (730991) Linear stand (725620)

Aspiration and dispensing speeds

<i>Single channel models</i>												
<i>Time in sec.</i>												
	10 µl		120 µl		300 µl		1000 µl		5 ml		10 ml	
<i>Speed</i>	<i>Asp.</i>	<i>Disp.</i>	<i>Asp.</i>	<i>Disp.</i>	<i>Asp.</i>	<i>Disp.</i>	<i>Asp.</i>	<i>Disp.</i>	<i>Asp.</i>	<i>Disp.</i>	<i>Asp.</i>	<i>Disp.</i>
1	2,5	3,5	6,0	7,4	7,7	9,0	10,1	11,3	10,2	11,6	10,2	11,5
2	1,8	2,6	4,2	5,3	5,3	6,5	7,4	8,8	7,4	9,0	7,4	8,9
3	1,3	2,0	2,9	3,9	3,7	4,7	5,4	6,6	5,4	6,9	5,4	6,9
4	1,0	1,6	2,1	2,9	2,7	3,6	3,8	4,9	3,8	5,1	3,8	5,1
5	0,8	1,3	1,5	2,2	1,9	2,7	2,8	3,5	2,7	3,6	2,9	4,0
6	0,6	1,1	1,1	1,8	1,4	2,2	1,9	2,5	1,8	2,6	2,2	3,1
7	0,5	1,0	0,9	1,6	1,1	1,9	1,2	1,9	1,1	1,9	1,7	2,6
8	0,4	1,0	0,7	1,4	0,9	1,6	0,8	1,5	0,8	1,6	1,3	2,1
9	0,3	1,0	0,6	1,3	0,8	1,5	0,6	1,2	0,6	1,4	0,9	1,7

<i>Multichannel models</i>								
<i>Time in sec.</i>								
	10 µl		120 µl		300 µl		1200 µl	
<i>Speed</i>	<i>Asp.</i>	<i>Disp.</i>	<i>Asp.</i>	<i>Disp.</i>	<i>Asp.</i>	<i>Disp.</i>	<i>Asp.</i>	<i>Disp.</i>
1	2,5	3,6	6,1	7,6	5,4	6,5	6,1	7,6
2	1,8	2,7	4,4	5,9	3,9	5,0	4,4	5,9
3	1,3	2,2	3,3	4,5	2,9	3,8	3,3	4,5
4	1,0	1,8	2,4	3,4	2,1	2,9	2,5	3,4
5	0,8	1,5	1,8	2,6	1,6	2,3	1,9	2,7
6	0,6	1,3	1,4	2,1	1,2	1,9	1,4	2,2
7	0,5	1,2	1,1	1,9	1,0	1,6	1,1	1,9
8	0,4	1,1	0,9	1,7	0,8	1,4	0,9	1,7
9	0,3	1,1	0,7	1,5	0,7	1,3	0,7	1,5

Packaging content

Picus electronic pipettes	Single and multichannel pipettes	<p>Picus pipette Quick Programming Guide QC-certificate Pipette Tip leaflet Tip Rack (96 tips, excl. 5/10 ml) Universal AC-adaptor Safe-cone filters (included in models >10 µl; single ch.5 pcs, multich. 24 pcs) Filter forceps Autoclavable grease in single channel units</p>
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Performance specifications and ordering details

Picus pipettes										
Cat No	Channels	Volume µl	Increment µl	Test vol. µl	Systematic (Inacc.) %	Random (Impr.) %	Safe-Cone filter		Tip µl	
							Standard	Plus	Optifit Standard	SafetySpace Filter
735021	1	0.2 – 10	0.02	10 5 1	0.90 1.00 2.50	0.40 0.70 1.50	-	-	10	10
735041	1	5 – 120	0.1	120 60 12	0.40 0.60 2.00	0.15 0.20 1.00	721008	721018	200, 350	120
735061	1	10 – 300	0.2	300 150 30	0.40 0.60 1.50	0.15 0.20 0.80	721007	721017	350	300
735081	1	50 – 1000	1	1000 500 100	0.40 0.60 1.50	0.15 0.20 0.50	721006	721016	1000	1000
735101	1	100 – 5000	5	5000 2500 500	0.50 0.80 1.00	0.15 0.20 0.40	721005	721015	5000	-
735111	1	500 – 10 000	10	10 000 5000 1000	0.60 1.20 3.00	0.20 0.30 0.60	721005	721015	10 000	-
735321	8	0.2 – 10	0.02	10 5 1	0.90 1.50 4.00	0.50 0.80 3.00	-	-	10	10
735341	8	5 – 120	0.1	120 60 12	0.50 0.70 2.00	0.20 0.30 1.50	721008	721018	200, 350	120
735361	8	10 – 300	0.2	300 150 30	0.50 0.70 2.00	0.20 0.30 1.00	721007	721017	350	300
735391	8	50 – 1200	1	1200 600 120	0.50 1.00 2.50	0.20 0.30 1.00	721006	721016	1200	1200
735421	12	0.2 – 10	0.02	10 5 1	0.90 1.50 4.00	0.50 0.80 3.00	-	-	10	10
735441	12	5 – 120	0.1	120 60 12	0.50 0.70 2.00	0.20 0.30 1.50	721008	721018	200, 350	120
735461	12	10 – 300	0.2	300 150 30	0.50 0.70 2.00	0.20 0.30 1.00	721007	721017	350	300
735491	12	50 – 1200	1	1200 600 120	0.50 1.00 2.50	0.20 0.30 1.00	721006	721016	1200	1200

Please see more information on Liquid Handling Master Data file

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