Electronic Pipettes

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Picus® and Picus® NxT Electronic Pipettes

The Most Sophisticated and Ergonomic Pipettes Ever!

Picus® NxT is Sartorius' leading and most sophisticated electronic pipette. The smallest and lightest electronic pipette on the market eases the user's workload and provides protection from Work Related Upper Limb Disorder (WRULD). Its new generation technology, electronic brake and piston control system guarantee accurate and precise pipetting results. By guiding pipetting steps, the unique plate tracker increases reliability in microwell plate work.

Picus® and Picus® NxT are available in single-channel models, covering a volume range of 0.2 – 10,000 µl and in multi-channel models from 0.2 µl to 1,200 µl.

Superior Ergonomics
The uniquely lightweight and streamlined design of the Picus® pipette ensures an effortless pipetting experience. The pipette rests lightly in the user's hand due to the comfortable handle and finger hook, and minimal gripping force is needed.

The conveniently located soft-touch operating buttons, and unique electronic tip ejection, help minimize muscle strain, further enhancing the ergonomics of the pipette.

Reliable Results
The electronic brake and piston control system guarantee accurate and precise pipetting results, independent of the user. Using the unique plate tracker increases reliability in microwell plate dispensing, by guiding the steps to pipette into the correct microplate wells.

Picus® and Picus® NxT are lightweight pipettes, with a comfortable handle and finger hook, requiring minimal gripping force.

Adjustment wheel for quick single-handed operation and speed control.

Calibration Adjustment
Gives the user the option to adjust the calibration according to conditions and fluids that are to be pipetted.

Fast Execution of Pipetting Tasks
The unique adjustment wheel of Picus® pipettes offers extremely fast volume setting and menu navigation. The user can perform pipetting tasks quickly and easily with the extensive range of pipetting modes, from diluting and titrating to serial dispensing.

The pipetting functions are quick to learn, using the intuitive user interface, available in a choice of language options: English, French, German, Russian and Chinese.

Picus® NxT Enhancements
Picus® NxT has the same qualities as Picus®, and has added features for increased efficiency and safety, which make it suitable for strictly regulated laboratories.

Custom Protocols in Picus® NxT
Protocols are saved to memory in Picus® NxT, which speed up routine pipetting sequences. Create 1 – 3 different protocols; multiphase workflows of up to 10 steps. Ensure repeatable results. Reduced number of presses during pipetting.

Picus® NxT for Highly Regulated Laboratories
The following features are only available with Picus® NxT pipettes, which are especially intended to conform to the strictest laboratory regulations and requirements:

– Certificate of accredited 3-point calibration (per ISO 17025 and ISO 8655)
– Reminders alert you when regular maintenance and calibration is required
– Advanced password protection for settings and pipetting protocol memory
– The pipette can be locked, to prevent its use, e.g. in case of contamination
– Custom protocols speed up routine pipetting sequences and standardise regulated workflows
– Repeated blow-out function helps dispense every last droplet, ensuring complete sample recovery

GERMAN DESIGN AWARD WINNER 2017

German Design Award SPECIAL MENTION 2014

reddot award 2016 winner

fenniaprize 12 good design grows global HONORARY MENTION

Microwell plate tracker in use

Calibration Adjustment
in use as indicated by ADJ1

Features and Benefits

Ergonomic Design for Reduced Risk of Strain Injury
– Extremely compact and light (only 100 g) design maximizes user comfort
– Conveniently located, soft-touch operating button and comfortable electronic tip ejection help minimize muscle strain and reduce the risk of WRULD
– Comfortable handle design and finger hook allow the pipette to rest effortlessly in hand

Innovative Technology for Reliable Results
– Fully electronic functionality provides outstanding accuracy and repeatability of results
– Electronic brake stops piston movement rapidly and precisely, ensuring high precision, especially in serial dispensing
– Optical sensor controls and monitors piston movement in real time, ensuring unbeatable accuracy and reliability
– **Picus® NxT only:** Repeated blow-out function helps dispense the very last droplets of liquid, ensuring complete recovery

Intuitive User-Interface for Ease of Use
– Plug & Play – learn to use in a minute
– Natural to use buttons
– Easy menu navigation and unique adjustment wheel make for fast setting of volumes and modes
– Hotkeys for quick access to your preset programs
– Enables ergonomic single-handed operation

Comprehensive Range of Pipetting Modes for Speed of Use
– The main modes combined with the advanced functions enable fast and handy execution of various pipetting tasks
– Multi-dispensing mode replaces the need for a stepper

Microwell Plate Tracker for Improved Efficiency and Reliability
– Unique built-in tracker for 96 and 384 well plates guides the user to pipette into the correct wells
– Improves work efficiency and reliability of results

Optiload in Multi-channel Models for Perfect Tip Sealing
– Allows tip loading with an equal constant force onto every channel
– Enables perfect tip sealing onto every individual tip cone

Safe-Cone Filters to Prevent Contamination
– Are available for all models > 10 µl

Autoclavable Lower Parts for Easy Sterilisation
– For reduced risk of contamination (excl. 1,200 µl models)

Calibration Adjustment
– Define and save 3 calibration settings in addition to the factory setting
– The adjustment can be made in 1, 2 or 3 points by the user

Fast Charge that Lasts Several Hours
– Battery is charged in 1 hour
– Continue pipetting while charging with micro USB cable
– Most convenient way is to store your pipette in a charging stand

Pipetting Modes

Pipetting Modes		Advanced Functions*						
		Tracker	Mixing	Counter	Excess Volume Adjust-ment	Auto-dispensing	Repeated Blow-out**	Fast Dispensing
Pipetting	✓	✓	✓	✓			✓	
Reverse Pipetting	✓	✓		✓	✓			
Multi-dispensing	✓	✓			✓	✓		
Manual Pipetting	✓						✓	
Diluting	✓		✓				✓	
Sequential Dispensing	✓				✓			
Multi-aspiration	✓						✓	
Titration	✓							✓
Protocols ** | ***	✓		✓		✓	✓	✓	✓

* Advanced functions are used in conjunction with the pipetting mode.
** Only available in Picus® NxT models
*** Availabilty of the advanced functions varies according to the pipetting mode selected for the protocol.

2 YEAR WARRANTY

Ergonomic Design Sartorius

Optiload Sartorius

CE IVD

121°C
Autoclavable lower parts excl. 1,200 µl models

Ordering Information

Picus® NxT	Picus®	Channels	Volume Range (µl)	Increment (µl)	Test Volume (µl)	Mode[P|D]	Systematic Error[N] Limit ± (%)	(µl)	Random Error[N] Limit (%)	(µl)
LH-745021	735021	1	0.2 – 10	0.01	10	P	1.0	0.100	0.4	0.040
					5	P	1.2	0.060	0.7	0.035
					1	P	3.0	0.030	2.0	0.020
					0.2	P	17.5	0.035	10	0.020
					1	D	6.0	0.060	7.0	0.070
LH-745041	735041	1	5 – 120	0.10	120	P	0.5	0.60	0.15	0.18
					60	P	0.7	0.42	0.2	0.12
					12	P	2.0	0.24	1.0	0.12
					5	P	5.5	0.275	2.5	0.125
					12	D	4.0	0.48	4.0	0.48
LH-745061	735061	1	10 – 300	0.20	300	P	0.5	1.50	0.15	0.45
					150	P	0.6	0.90	0.2	0.30
					30	P	1.5	0.45	0.8	0.24
					10	P	5.0	0.50	2.4	0.24
					30	D	3.0	0.90	3.0	0.90
LH-745081	735081	1	50 – 1,000	1.00	1,000	P	0.45	4.5	0.15	1.5
					500	P	0.6	3.0	0.2	1.0
					100	P	2.0	2.0	0.5	0.5
					50	P	4.0	2.0	1.0	0.5
					100	D	2.5	2.5	2.0	2.0
LH-745101	735101	1	100 – 5,000	5.00	5,000	P	0.5	25	0.15	7.5
					2,500	P	0.7	17.5	0.2	5
					500	P	1.6	8	0.4	2
					100	P	8.0	8	2.0	2
					500	D	2.4	12	2.4	12
LH-745111	735111	1	500 – 10,000	10.00	10,000	P	0.6	60	0.2	20
					5,000	P	0.9	45	0.3	15
					1,000	P	3.0	30	0.6	6
					500	P	7.0	35	1.2	6
					1,000	D	4.0	40	2.4	24
LH-745321	735321	8	0.2 – 10	0.01	10	P	1.2	0.120	0.5	0.050
LH-745421	735421	12			5	P	1.5	0.075	0.8	0.040
					1	P	4.0	0.040	3.0	0.030
					0.2	P	25.0	0.050	15.0	0.030
					1	D	12.0	0.120	15.0	0.150
LH-745341	735341	8	5 – 120	0.10	120	P	0.6	0.72	0.3	0.36
LH-745441	735441	12			60	P	0.8	0.48	0.4	0.24
					12	P	2.5	0.30	1.67	0.20
					5	P	6.0	0.30	4.0	0.20
					12	D	4.5	0.54	8.0	0.96
LH-745361	735361	8	10 – 300	0.20	300	P	0.6	1.80	0.2	0.60
LH-745461	735461	12			150	P	0.8	1.20	0.3	0.45
					30	P	2.33	0.70	1.0	0.30
					10	P	8.0	0.80	3.0	0.30
					30	D	3.33	1.00	6.0	1.80
LH-745391	735391	8	50 – 1,200	1.00	1,200	P	0.6	7.2	0.2	2.4
LH-745491	735491	12			600	P	1.0	6.0	0.3	1.8
					120	P	2.5	3.0	1.0	1.2
					50	P	8.0	4.0	2.4	1.2
					120	D	3.33	4.0	3.33	4.0

[N] Note. The listed systematic and random error values can be achieved only under strictly controlled conditions during type tests per ISO 8655. Pipettes are tested at factory default speed settings. Due to the continuous product development by Sartorius, the systematic and random error values are subject to change without prior notice.

[P] P = Pipetting Mode

[D] D = Multi-dispensing mode. The listed systematic and random error values are of 10 measurements at 10% of the nominal volume.

All pipettes are supplied with a universal charger (EU, UK, US | JPN, KOR, AUS and CHN plugs)

Tip Selection Guide

Optifit Tip [LRT]		SafetySpace Tip [LRT]		Safe-Cone Filters	
Colour-Code	**Volume**	**Colour-Code**	**Volume**	**Standard**	**Plus**
○ ○	0.1 – 10 µl 0.1 – 10 µl Extended	○ ○	0.1 – 10 µl 0.1 – 10 µl Extended [FT]	–	–
○ ○	0.5 – 200 µl 5 – 350 µl	○ ○	0.5 – 20 µl 5 – 200 µl	721008	721018
○	5 – 350 µl	○	5 – 300 µl	721007	721017
○ ○	10 – 1,000 µl 10 – 1,000 µl Wide Bore	○	50 – 1,000 µl	721006	721016
○	100 – 5,000 µl	–	–	721005	721015
○	500 – 10,000 µl	–	–	721005	721015
○ ○	0.1 – 10 µl 0.1 – 10 µl Extended	○ ○	0.1 – 10 µl 0.1 – 10 µl Extended [FT]	–	–
○ ○	0.5 – 200 µl 5 – 350 µl	○ ○	0.5 – 20 µl 5 – 200 µl	721008	721018
○	5 – 350 µl	○	5 – 300 µl	721007	721017
○ ○	50 – 1,200 µl 50 – 1,200 µl Extended	○	50 – 1,200 µl	721006	721016

[LRT] Note: Low Retention Tips are available in volumes up to 1,200 µl.
[FT] Note: Filter tip with regular air gap. The 10 µl Extended tip's systematic error and random error results, in tests, deviated slightly from those of the 10 µl tip
The best compatibility is achieved when combining Sartorius pipettes and Sartorius tips. The systematic error and random error results, in tests, have been achieved using the listed Sartorius tips and pipettes.