

Picus® Nxt and Picus® Electronic Pipettes

The Revolutionary Pipetting Experience



Product Brochure





Picus® NxT and Picus®

The Revolutionary Pipetting Experience

Excel in Ergonomics, Efficiency and Safety

When choosing a pipette are you looking for the following qualities, without compromise?

- Comfortable to hold and reduces the risk of strain injuries
- Conforms to the strictest lab regulations
- Speeds up your work
- Helps you to achieve accurate results time after time

If the answer is yes, then Picus® NxT should be your choice. It meets all of these requirements with its inherited, superior design of the award-winning Picus®. Plus its added certification and novel safety features ensure conformance to the strictest lab regulations.

Conform to Lab Regulations

- Certificate of accredited 3-point calibration (ISO 17025 and ISO 8655) conforms to the strictest regulations
- Maintenance and calibration reminders alert you when service is required
- Advanced password protection for settings and pipetting protocol memory
- Possibility to lock the pipette to prevent use, e.g. in case of contamination or damage



Feel the Comfort

Be kind to your hand

- Uniquely lightweight (weighs only 100 g) and streamlined design for effortless pipetting
- Conveniently located soft-touch operating button and electronic tip ejection help minimise muscle strain
- Comfortable handle design and finger hook mean the Picus® NxT rests lightly in your hand

Ergonomics is Important!

Pipetting is one of the most common tasks performed in a laboratory on a daily basis. Studies show that more than 40% of lab professionals suffer from pipetting-related disorders.* In addition to causing discomfort, hand or arm injuries limit working performance and may therefore impact accuracy, precision, and the reliability of results.

This is why we at Alpha Laboratories take pipetting ergonomics and your well-being extremely seriously. Excellent ergonomics is always a priority in our pipette designs. Simply put, this means that you can use our pipettes in a comfortable posture and with minimal effort.

Suited to both left and right-handed users



Our Picus® NxT and Picus® pipette families are perfect examples of ergonomic pipette design. Exceptionally compact and lightweight, these pipettes are designed to ease your workload and protect you from repetitive strain injury (RSI).

The operating buttons are located close together, within comfortable reach of the thumb for both right and left-handed users. The one-touch, feather-light electronic tip ejection helps minimise muscle strain during pipetting. The comfortable handle and finger hook design enables the pipette to rest lightly in your hand, with no need to grip the handle tightly. Try it out for yourself and feel the difference!

* M.G. Björkstén, B. Almby, E. S. Jansson: Hand and shoulder ailments among laboratory technicians using modern plunger-operated pipettes. Applied Ergonomics 1994 25(2) 88-94.



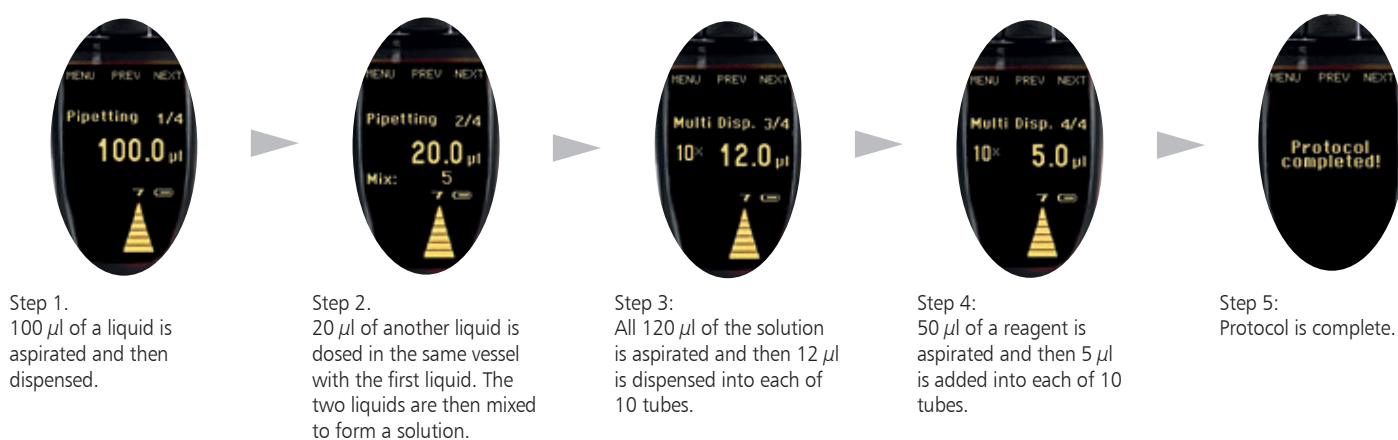
Speed Up Your Work

User-definable Pipetting Protocols

Many pipette users use several modes in sequence to complete their task. With the Picus® NxT pipette you can create custom pipetting protocols for carrying out complex pipetting series. This makes work more efficient by eliminating the need to change modes and volume settings several times during a series.

Protocols are stored in the Picus® NxT memory. Once the protocol is selected, the entire workflow can be carried out simply by using the operating button. You can save up to three protocols of up to 10 steps each.

Below is an example.



Pipetting Modes

To save time and effort, the Picus® NxT has a total of nine pipetting modes for various pipetting needs. One of the most popular is Multi-Dispensing, which speeds up repetitive dispensing in microwell plates. If you want to time the dispensings and only press the operating button once to save using your thumb, then choose Auto-Dispensing. Multi-Aspiration can be used for emptying microwell plates quickly and easily. By combining pipetting modes with advanced functions you can find the perfect functionality for your specific application.

Pipetting Modes		Advanced Functions (ADV)*						
		Tracker	Mixing	Counter	Excess Volume Adjustment	Auto-Dispensing	Repeated Blow-Out	Fast Dispensing
Pipetting	✓	✓	✓	✓			✓	
Reverse Pipetting	✓	✓		✓	✓			
Manual Pipetting	✓						✓	
Multi-Dispensing	✓	✓			✓	✓		
Diluting	✓		✓				✓	
Sequential Dispensing	✓				✓			
Multi-Aspiration	✓						✓	
Titrate	✓							✓
Protocols**	✓		✓		✓	✓	✓	✓

* Advanced functions are used in conjunction with the pipetting mode.

** The availability of advanced functions varies according to the pipetting mode selected.

Achieve Reliable Results

Repeated Blow-out

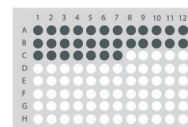
Sometimes, the last few droplets of liquid remain stubbornly in the tip after dispensing - especially if they are viscous. This can be a problem when handling tiny amounts of liquid where accuracy is imperative. With expensive reagents, you also want to recover every last droplet.

The Repeated Blow-out functionality of Picus® NxT solves this problem. It allows you to repeat the blow-out as many times as needed to empty the tip completely. Repeated Blow-out can be used in conjunction with Pipetting, Manual Pipetting, Diluting, and Multi-Aspiration pipetting modes, and in protocols when using these modes.

Microwell Plate Tracker

When pipetting in microwell plates, it's easy to lose track. When handling small volumes of colorless liquid in particular, it can be hard to tell which wells have been filled and which have not. Picus® NxT has a built-in tracker for 96 and 384-well plates to guide the user to pipette into the correct wells. This improves both efficiency and the reliability of the results.

The microwell plate tracker function can be optionally used in conjunction with Pipetting, Reverse Pipetting, and Multi-Dispensing modes, when one of the modes is selected.



Conform to Lab Regulations

3-Point Calibration Curve

Having pipettes calibrated in compliance with ISO 17025 is essential for all laboratories that depend on the quality and reliability of results. Every Picus® NxT is delivered with a certificate of accredited 3-point calibration (ISO 17025 and ISO 8655) as standard.

An ISO 17025 accredited pipette calibration guarantees that:

- All measurements are traceable to national and international methods and standards.
- Uncertainty can be precisely split into what is due to pipette performance and what to the process.
- The laboratory issuing the calibration certificate has been approved by independent experts and authorities (for example, DaKKs, UKAS, A-Class, COFRAC, JCSS, FINAS, or Rosstandart).

The ISO 8655 standard specifies the requirements for pipettes and pipette calibration laboratories. In accordance with this standard, Picus® NxT calibration is performed using reliable measurement equipment and procedures.

Two-level Password

Separate administrator and user profiles in Picus® NxT prevent unauthorised modifications to pipette settings and can be used to restrict usage to specific individuals or groups. This feature ensures that your work is done according to regulations and laboratory guidelines – every time. Passwords are an optional feature and can be deactivated/disabled when extra protection is not necessary.

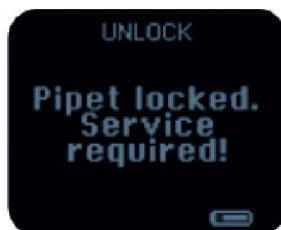
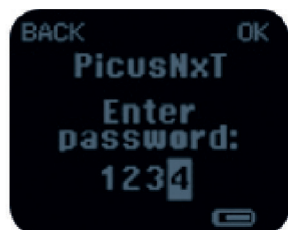
Pipette Locking

No more sticky notes stating “Do not use, waiting for service!”. With the pipette locking feature you can prevent the pipette from being used when it is awaiting service or cleaning, for example. If password protection is enabled, the administrator password is required to unlock the pipette.

Service and Calibration Reminders

As precision instruments, pipettes must be serviced and calibrated regularly, according to GLP guidelines and ISO standards. The Picus® NxT can be programmed with service and calibration reminders according to time and/or cycle intervals.

Maintaining and calibrating your pipettes regularly is critical to ensure the quality and accuracy of your results.



Picus® NxT Single and Multichannel Pipettes

Product Code	Channels	Volume Range (µl)	Colour Coding	Safe-Cone Filters		Optifit Tips (µl)	SafetySpace Filter Tips (µl)
				Standard	Plus		
PIC-00010-01NXT	1	0.2-10	Grey	-	-	10	10
PIC-00120-01NXT	1	5-120	Grey	721008	721018	200, 350	120
PIC-00300-01NXT	1	10-300	Yellow	721007	721017	350	300
PIC-01000-01NXT	1	50-1000	Blue	721006	721016	1000	1000
PIC-05000-01NXT	1	100-5000	Green	721005	721015	5000	-
PIC-10000-01NXT	1	500-10000	Red	721005	721015	10000	-
PIC-00010-08NXT	8	0.2-10	Grey	-	-	10	10
PIC-00120-08NXT	8	5-120	Yellow	721008	721018	200, 350	120
PIC-00300-08NXT	8	10-300	Orange	721007	721017	350	300
PIC-01200-08NXT	8	50-1200	Purple	721006	721016	1200	1200
PIC-00010-12NXT	12	0.2-10	Grey	-	-	10	10
PIC-00120-12NXT	12	5-120	Yellow	721008	721018	200, 350	120
PIC-00300-12NXT	12	10-300	Orange	721007	721017	350	300
PIC-01200-12NXT	12	50-1200	Purple	721006	721016	1200	1200

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

Pipettes use colour-coded caps for easy identification of Sartorius Optifit and SafetySpace Tip compatibility.

Pipette Stands

Product Code	Description
730981	Charging Stand for one pipette
730991	Charging Carousel for four pipettes
725620	Linear Stand (Non-charging)



Pipetting Academy™ from Alpha Laboratories

As the liquid handling partner of choice for Sartorius, Alpha Laboratories' liquid handling experts provide free training through on-site Pipetting Academy seminars and workshops.

Through a combination of videos, presentations and practical activities you will learn valuable information on how to improve your techniques and maximise your pipetting performance.

Find out more at
www.alphalabs.co.uk/pipetting-academy



For more information and ordering, visit our website at www.alphalabs.co.uk/picusnxt