

# Picus® & Picus® NxT Electronic Pipettes

The Most Sophisticated and Ergonomic Pipettes Ever!



## Description

Sartorius Picus® & Picus® NxT are the most sophisticated and ergonomic electronic pipettes on the market. These exceptionally compact and lightweight pipettes have been specially designed to ease the user's workload and to protect the user from repetitive strain injury (RSI). The newest technology and fully electronic operation assure high accuracy and precision of results, regardless of user skill level. Picus® NxT provides distinct advantages for highly regulated laboratories.

## Features

Picus® & Picus® NxT

- Highest level of ergonomics provided by the uniquely low weight, light electronic tip ejection and comfortable handle design
- Extensive range of pipetting modes reduces the needed pipetting steps and speeds up work
- Electronic brake and piston control system provide outstanding accuracy and repeatability of pipetting results, independent of the user
- Intuitive user interface in five language options: English, French, German, Russian and Chinese, enables ease of use
- Adjustment wheel offers extremely fast volume setting and menu navigation
- Optiload enables perfect tip sealing for accurate delivery from each channel
- Safe-Cone Filters prevent the risk of contamination cost-effectively

- Microwell plate tracker guides the user to pipette into the correct wells
- Calibration adjustment in 1, 2 or 3 points

## Picus® NxT

- Certificate of accredited 3-point calibration (per ISO 17025 and ISO 8655) delivered with the product at no extra charge
- User programmable pipetting protocols enable the storage of three frequently needed pipetting workflows; easily activated when needed.
- 2-level password protection for stored programs to prevent unauthorized changes (optional)
- Pipette locking, e.g. in case of contamination, increases lab safety by disabling the pipette from use.
- Service and calibration reminders help the users to remember important service dates.
- Repeated blow-out helps to dispense the last droplets of e.g. viscous liquids

## Applications

- PCR and other DNA/RNA techniques
- ELISA
- Protein analysis
- Cell culture

## Intended use

Fully electronic liquid handling in the volume range of 0.2 µl to 10 ml.

## Technical Specifications

|                                       |   |
|---------------------------------------|---|
| Rechargeable battery                  | Li-Polymer with protection circuit                              |
| Charging time                         | Approx. 1 hour  |
| Charger                               | Universal charger with EU, US   JPN, UK, CHN, AUS and KOR plugs |
| Weight                                | 100 g (1-ch, 300 µl)<br>160 g (8-ch, 300 µl)                    |
| Length                                | 210 mm (1-ch, 300 µl)<br>216 mm (8-ch, 300 µl)                  |
| Number of pipetting cycles            | >1000   |
| Volume range                          | 1-ch: 0.2-10 000 µl<br>8- & 12-ch: 0.2-1200 µl                  |
| Pipetting modes                       | Picus®: 8 + 6<br>Picus® NxT: 9 + 7                              |
| DC-motor concept                      | Electronic piston control<br>Electronic brake                   |
| Memory places                         | Picus®: 10<br>Picus® NxT: 3* + 10                               |
| Tip ejection                          | Electronic  |
| Spring loaded tip cones               | Optiload feature in multichannel models                         |
| Filters                               | Safe-Cone Filters in all models >10 µl                          |
| Autoclavable lower parts**            | 121°C, 20 min, 1 bar  |
| Charging Stands, available separately | Charging Stand for 1 pipette, Charging Carousel for 4 pipettes  |
| Warranty                              | 2 years, possibility for 1 year extended warranty               |

\*For Protocols

\*\*Excluding 1200 µl multichannel models

| Pipetting Modes       | Advanced Functions                                 |
|-----------------------|--|
| Pipetting             | Tracker, Mixing, Counter, Repeated Blow-out*       |
| Reverse Pipetting     | Tracker, Counter, Excess Volume Adjustment         |
| Manual Pipetting      | Repeated Blow-out*                                 |
| Multi-Dispensing      | Tracker, Excess Volume Adjustment, Auto-Dispensing |
| Diluting              | Mixing, Repeated Blow-out*                         |
| Sequential Dispensing | Excess Volume Adjustment                           |
| Multi-Aspiration      | Repeated Blow-out*                                 |
| Titrate Protocol*     | Fast Dispensing                                    |
|                       | All additional modes                               |

\*Advanced function, Repeated Blow-out, and pipetting mode, Protocol, are only available in Picus® NxT models.

## Ordering Information

| Picus® NxT Order Code | Picus® Order Code | Channels | Volume Range (µl) | Increment (µl) | Test Volume (µl)      | System. Error* (%)   | Random Error* (%)    | Safe-Cone Standard | Filters: Plus | Optifit Tips** (µl) | SafetySpace Filter Tips** (µl) |
|-----------------------|-------------------|----------|-------------------|----------------|-----------------------|----------------------|----------------------|--------------------|---------------|---------------------|--------------------------------|
| LH-745021             | 735021            | 1        | ● 0,2-10          | 0,01           | 10<br>5<br>1          | 0,90<br>1,00<br>2,50 | 0,40<br>0,70<br>1,50 | -                  | -             | 10                  | 10                             |
| LH-745041             | 735041            | 1        | ● 5-120           | 0,10           | 120<br>60<br>12       | 0,40<br>0,60<br>2,00 | 0,15<br>0,20<br>1,00 | 721008             | 721018        | 200<br>350          | 120                            |
| LH-745061             | 735061            | 1        | ● 10-300          | 0,20           | 300<br>150<br>30      | 0,40<br>0,60<br>1,50 | 0,15<br>0,20<br>0,80 | 721007             | 721017        | 350                 | 300                            |
| LH-745081             | 735081            | 1        | ● 50-1000         | 1,00           | 1000<br>500<br>100    | 0,40<br>0,60<br>1,50 | 0,15<br>0,20<br>0,50 | 721006             | 721016        | 1000                | 1000                           |
| LH-745101             | 735101            | 1        | ● 100-5000        | 5,00           | 5000<br>2500<br>500   | 0,50<br>0,80<br>1,00 | 0,15<br>0,20<br>0,40 | 721005             | 721015        | 5000                | -                              |
| LH-745111             | 735111            | 1        | ● 500-10000       | 10,00          | 10000<br>5000<br>1000 | 0,60<br>1,20<br>3,00 | 0,20<br>0,30<br>0,60 | 721005             | 721015        | 10000               | -                              |
| LH-745321             | 735321            | 8        | ● 0,2-10          | 0,01           | 10<br>5<br>1          | 0,90<br>1,50<br>4,00 | 0,50<br>0,80<br>3,00 | -                  | -             | 10                  | 10                             |
| LH-745341             | 735341            | 8        | ● 5-120           | 0,10           | 120<br>60<br>12       | 0,50<br>0,70<br>2,00 | 0,20<br>0,30<br>1,50 | 721008             | 721018        | 200<br>350          | 120                            |
| LH-745361             | 735361            | 8        | ● 10-300          | 0,20           | 300<br>150<br>30      | 0,50<br>0,70<br>2,00 | 0,20<br>0,30<br>1,00 | 721007             | 721017        | 350                 | 300                            |
| LH-745391             | 735391            | 8        | ● 50-1200         | 1,00           | 1200<br>600<br>120    | 0,50<br>1,00<br>2,50 | 0,20<br>0,30<br>1,00 | 721006             | 721016        | 1200                | 1200                           |
| LH-745421             | 735421            | 12       | ● 0,2-10          | 0,01           | 10<br>5<br>1          | 0,90<br>1,50<br>4,00 | 0,50<br>0,80<br>3,00 | -                  | -             | 10                  | 10                             |
| LH-745441             | 735441            | 12       | ● 5-120           | 0,10           | 120<br>60<br>12       | 0,50<br>0,70<br>2,00 | 0,20<br>0,30<br>1,50 | 721008             | 721018        | 200<br>350          | 120                            |
| LH-745461             | 735461            | 12       | ● 10-300          | 0,20           | 300<br>150<br>30      | 0,50<br>0,70<br>2,00 | 0,20<br>0,30<br>1,00 | 721007             | 721017        | 350                 | 300                            |
| LH-745491             | 735491            | 12       | ● 50-1200         | 1,00           | 1200<br>600<br>120    | 0,50<br>1,00<br>2,50 | 0,20<br>0,30<br>1,00 | 721006             | 721016        | 1200                | 1200                           |

\*The listed systematic and random error values are valid for Pipetting mode only, and achieved under strictly controlled conditions during type tests per ISO 8655. Due to the continuous product development by Sartorius, the systematic and random error values may change without prior notice.

\*\*Low Retention Tips are available in volumes up to 1200 µl.

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

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