

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</p> <p>Quick Programming Guide</p> <p>QC-certificate</p> <p>Pipette Tip leaflet</p> <p>Tip Rack (96 tips, excl. 5/10 ml)</p> <p>Universal AC-adaptor</p> <p>Safe-cone filters (included in models >10 µl; single ch.5 pcs, multich. 24 pcs)</p> <p>Filter forceps</p> <p>Autoclavable grease in single channel units</p> |
|---------------------------|----------------------------------|--|

Performance specifications and ordering details

| Picus pipettes | | | | | | | | | | |
|----------------|----------|----------------|-------------------|------------------------|-----------------------|----------------------|------------------|--------|------------------|--------------------|
| Cat No | Channels | Volume μ l | Increment μ l | Test vol. μ l | Systematic (Inacc.) % | Random (Impr.) % | Safe-Cone filter | | Tip μ l | |
| | | | | | | | 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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