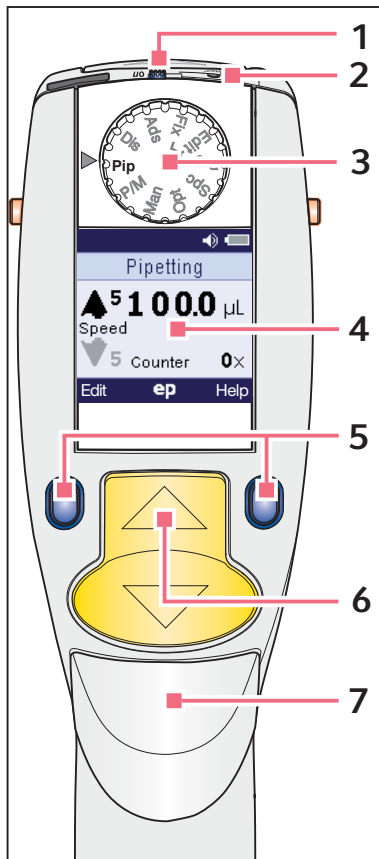# eppendorf

Short instructions
Eppendorf Xplorer®/Xplorer® plus
English (EN)

These short instructions are a supplement to the operating manual and not a substitute. Read the operating manual before using the Xplorer for the first time!
These short instructions are valid as of software version 02.01.00.

1 On/Off key
Switching on:
Keep the **On/Off** key pressed. The pipette switches itself on.
Switching off:
Keep the **On/Off** key pressed. The pipette switches itself on.

2 Reset key

3 Selection dial
The arrow marks the selected mode.

Xplorer	**Xplorer plus** (additional)
•**Ads**: Automatic dispensing	•**Spc**: Special
•**Dis**: Dispensing	– Multiple aspiration
•**Pip**: Pipetting	– Diluting
•**P/M**: Pipetting and mixing	– Sequential dispensing
•**Man**: Manual pipetting	– Sequential pipetting
•**Opt**: Options	– Reverse pipetting
	•**Prg**: Program
	•**Edit**: To edit **Prg** or **Fix**
	•**Fix**: Fix volumes

4 Display
The display shows the selected mode, the set volume as well as aspiration and dispensing speed. In pipetting mode, the *Counter* indicates the number of performed dispensing steps.*

5 Softkeys
The softkeys have variable functions. The active functions are shown in the bottom line of the display on both the left and right sides.
Press the *Help* softkey for further information.

> ℹ When activating *History* in Options, the *History* softkey will be displayed instead of the *Help* softkey in most operating modes. Dosing data will be stored after activating the *History* option. When you press the *History* softkey you can use the rocker to access the last 10 dosing settings.

> ℹ The display will switch off if the **On** switch is switched on and the pipette has not been used for a long period of time. The display switches back on if the pipette is moved.

6 Rocker
The rocker is used to move the piston during dispensing operations. During the editing procedure the selected parameter will be changed.

7 Ejector
Press the ejector to eject the pipette tip. Pressing the ejector when the tip is filled moves the piston to the basic position.*

* This option can be activated or deactivated in Options.

Option: Language selection

The language English is set by default on delivery.

1. Move the selection dial to **Opt**.

2. Use the rocker to select the *Language* option.

3. Press the *Select* softkey to open the *Language* option.

4. Select your language with the rocker.
   The following languages are available:
   - Chinese
   - Dutch
   - English
   - French
   - German
   - Italian
   - Japanese
   - Portuguese
   - Spanish

5. Press the *Select* softkey to select your language.

6. Press the *Yes* softkey to confirm the change.
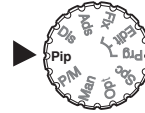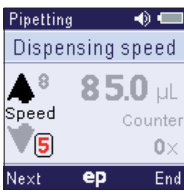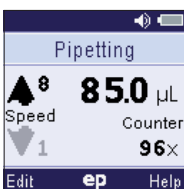
The new language is activated.

ℹ Turn the selection dial to exit the options.

ℹ The ✎ symbol in the left part of the header indicates that the factory settings have been changed.
If the factory setting is active, no symbol will appear in the header.

Edit the pipetting mode (Pip)

1. Turn the selection dial to **Pip**.

Piston is in basic position ▲.

2. Press the *Edit* softkey.

3. Select the volume with the rocker.

4. Press the *Next* softkey to select the next parameter.

5. Select the aspiration speed with the rocker.

6. Press the *Next* softkey to select the next parameter.

7. Select the dispensing speed with the rocker.

8. Press the *Next* softkey to select the next parameter.

Optional parameter: *Counter* indicates the number of performed pipetting steps.

9. Optional: Use the rocker to correct the number of performed pipetting steps.

10. Press the *End* softkey to save the changes and exit the editing mode.

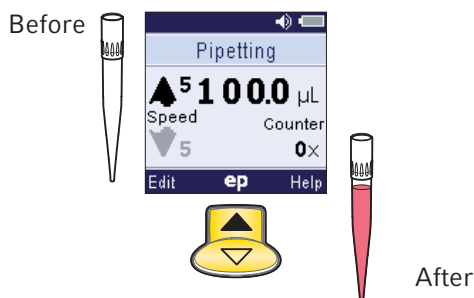The pipette is ready for liquid aspiration with new parameters.

Editing has a very similar procedure in all modes.
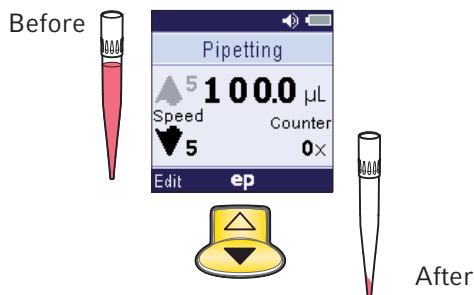
Pipetting mode (Pip)
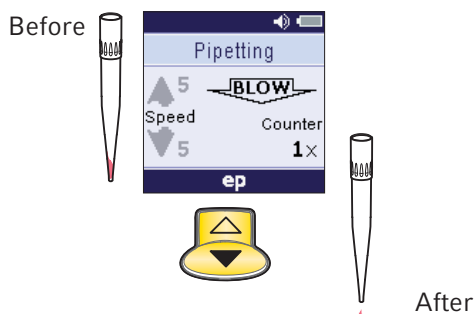
Execution

Liquid aspiration

1. Press the rocker up.

Before

After

Liquid dispensing

2. Press the rocker down.

Before

After

Blow

3. Press the rocker down.

Before

After

Repeat Blow   or   Next aspiration

Press the rocker down   Press the rocker up

🛈 In **Pip** and **Dis** mode, press the rocker in the opposite direction of the piston movement to stop it. Afterwards, press the rocker up or down to move the piston in the desired direction.

Pipetting and mixing mode (P/M)

Execution

Liquid aspiration and dispensing are performed as in **Pip** mode. Mixing occurs automatically after the liquid has been dispensed.

In addition, the display shows the mixing volume (*Mix*) and the number of mixing cycles (*Cycles*).

if you hold the rocker down during mixing, it wiil be performed until you release the rocker. After mixing, you must initiate a blow.

🛈 Press the rocker up to stop the mixing process.

🛈 Editing the pipetting volume automatically changes the mixing volume.
The mixing volume can be edited separately after pressing the *Next* softkey to reach the *Mix* parameter.

Manual pipetting mode (Man)

Execution
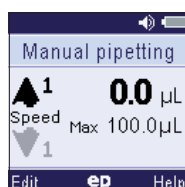
The Manual pipetting procedure is the equivalent of operation with a mechanical piston-stroke pipette:

- The liquid is aspirated as long as the rocker is held up.
- Piston movement stops when the rocker is released.
- The liquid is dispensed as long the rocker is held down.
- Piston movement stops when the rocker is released.
- After each stop, the direction of piston movement can be changed.
- During use, the display always shows the current volume in the tip. The *Max* line shows the maximum aspiration volume selected during editing.

Short instructions
Eppendorf Xplorer®/Xplorer® plus
English (EN)

Dispensing mode (Dis)

In the **Dis** mode, the aspirated liquid is dispensed in defined steps.
The display shows the volume per step and the entire number of *Steps*.

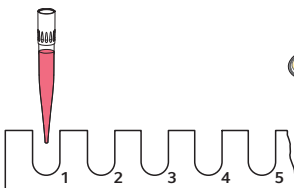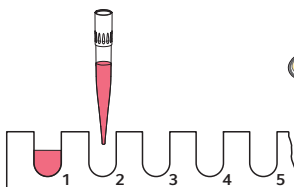|		
Aspiration of liquid		1. Press the rocker up.
Reverse stroke after liquid aspiration		After aspiration, the reverse stroke must be discarded. 2. Press the rocker down.
Before the first dispensing step		3. Press the rocker down for the first dispensing step.
Before the second dispensing step		4. Press the rocker down again.

ℹ To stop the **Dis** mode, press the *Empty* softkey to empty the tip.

When all dispensing steps are finished:		**To aspirate liquid again:**	▸ Press the rocker up to aspirate liquid again.
		To discard remaining liquid:	1. Press the rocker down 2 times. 2. Press ejector button to eject the tip.

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