

EN



PRECISE DISPENSING | IKA PETTE fix, vario and multi

### IKA PETTE

/// IT FITS SO COMFORTABLY IN YOUR HAND THAT YOU DON'T WANT TO LET GO

It's everything you could ever want for precise dispensing combined in one device: With the PETTE fix, vario and multi pipettes, IKA combines the most popular features of this laboratory classic. With uncompromisingly accurate performance and the desired reproducibility, the PETTE is also incredibly comfortable in your hand. Each pipette comes with three different grip sizes. Whether you're left-handed or right-handed, have big hands or small hands the IKA PETTE always adapts perfectly to your own grip. This makes it ideal for a wide range of applications and frequent laboratory use.



# Single-channel pipettes

PETTE fix and vario are available in 18 different sizes, from the micropipette with a volume of 0.1 µl, up to a metering volume of 10 ml. Ten models have a fixed volume, whereas eight are varia-

### Multi-channel pipettes

PETTE multi is available with either 8 or 12 channels for accurate dispensing in microtiter or deep well plates. In total, there are six different models available with adjustable volumes from 0.5 to

## Personalized Application Advice

You can test all the pipettes yourself at the IKA Application Center. Our experts are available for questions and various tests of all kinds.

### **GERMAN TECHNOLOGY**

The IKA PETTE is 100% designed and developed in Germany.

2 years warranty'

### Worldwide Service

Choosing an IKA PETTE also means choosing the excellent technical service offered by IKA. Our team is available worldwide for your service and application needs. Availability of spare parts for your pipette is guaranteed for 10 years. In addition, we calibrate your pipette on request as often as you need according to standard (ISO 8655).



### PETTE fix, vario and multi

/// Simple liquid handling for fixed and variable volumes

An ergonomic feel combined with uncompromising precise performance: the IKA single- and multi-channel pipettes have been devised for use in many applications typical in a modern laboratory. Color coding makes it simple to find the right pipette. The fact that they are resistant to impact, UV and chemicals, ensures the pipettes will provide long-term reliable dispensing. PETTE fix, vario and multi are fully autoclavable, therefore ensuring easy sterilization. This guarantees fault-free, precise and safe operation.





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### A dose of everything you need

# Ergonomic design

All IKA pipettes include three exchangeable grips in different shapes and materials. Designed for both right-handers and left-handers, as well as for people with small or large hands, they are guaranteed to fit comfortably in your hand. The minimal frictional and spring forces also ensure ergonomically-friendly dispensing; without any effort. One-handed adjustment of the volume is possible using the multi-functional knob. Moreover, the tip of the pipette can be replaced regardless of your hand position, while the volume adjustment is securely locked. Together with its pleasantly smooth surface and low weight, the ergonomic design makes for a particularly convenient work experience.





### Award-winning IKA PETTE

The IKA PETTE fix and vario pipettes have received two prizes already. The Council for Design honored the laboratory classic with the German Design Award 2020 in the category "Excellent Product Design - Industry". In addition, the 78-member panel of experts from International Forum Design GmbH in Hanover praised the IKA PETTE's innovative shape and awarded the world-renowned iF Design Award 2020.



\* Pipettes with volume up to 200 µl

# Designed to last

The tip cone and piston are coated with a high-quality coating\* (DLC, diamond like carbon). The IKA PETTE is constructed in a functional and minimalistic way and consist of only a few, clearly arranged individual parts. This combination results in extra sturdy pipettes that deliver reliable results day after day and are very easy to clean.











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### Convenient color coding

The different colors of the dispensing heads make it easier to choose the right pipette tip.

PETTE FIX	IDENT-NO.	MAX. VOLUME TIP
5 μΙ	0020011219	10 μΙ
10 μΙ	0020011220	10 μΙ
20 μΙ	0020011221	200 μΙ
25 μΙ	0020011222	200 μΙ
50 μΙ	0020011223	200 μΙ
100 μΙ	0020011224	200 μΙ
200 μΙ	0020011225	200 μΙ
250 μΙ	0020011226	1000 μΙ
500 μΙ	0020011227	1000 μΙ
1000 μΙ	0020011228	1000 μΙ
PETTE VARIO	IDENT-NO.	MAX. VOLUME TIP
0.1 – 2 μΙ	0020011210	10 μΙ
0.5 – 10 μl	0020011211	10 μΙ
2 – 20 μl	0020011213	200 μΙ
10 – 100 μΙ	0020011214	200 μΙ
20 – 200 μl	0020011215	200 μΙ
100 – 1000 μl	0020011216	1000 μΙ
0.5 – 5 ml	0020011217	5 ml
1 – 10 ml	0020011218	10 ml
PETTE MULTI	IDENT-NO.	MAX. VOLUME TIP
8 x 0.5 – 10 μl	0020017943	10 μΙ
8 x 10 − 100 μl	0020017944	200 μΙ
8 x 20 – 200 μl	0020017945	200 μΙ
12 x 0.5 – 10 μl	0020017946	10 μΙ
12 x 10 – 100 μl	0020017947	200 μΙ
12 x 20 – 200 μl	0020017948	200 μΙ

# High-tech – only the best for your lab





# Pick-by-light assembly

The IKA pipettes are completely assembled according to the pickby-light procedure. Our order pickers are able to assemble the pipettes quickly and without errors using computer-controlled eye-catching lights and acknowledgment knobs. The pleasing result for our customers are hardly any return rates and short delivery times.



# Calibration by robots

"Pit" and "Patty" are the names which our developers have lovingly given to the specially developed robots which calibrate all assembled pipettes fully automatically and in accordance with standards. Pit and Patty can independently identify inaccuracies and analyze faults.

#### Calibration certificate and quality certificate

You receive your PETTE fix, vario and multi with an individual quality certificate (QC) and calibration certificate according to ISO 8655.

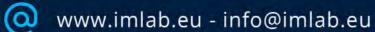
#### IKA calibration software

The IKA software for independent planning, execution and documentation of calibration intervals is extremely user-friendly.

#### IKA calibration service

If you would rather have your pipettes calibrated externally, you are also welcome to send them in to our calibration service.





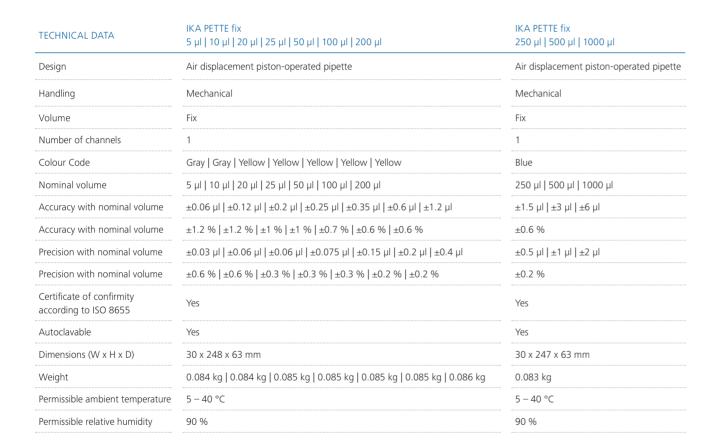




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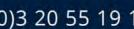
TECHNICAL DATA	IKA PETTE vario 0.1-2 µl   0.5-10   2-20 µl   10-100 µl   20-200 µl	IKA PETTE vario 100-1000 μl   0.5-5 ml   1-10 ml
Design	Air displacement piston-operated pipette	Air displacement piston-operated pipette
Handling	Mechanical	Mechanical
Volume	Variable	Variable
Number of channels	1	1
Colour Code	Gray   Gray   Yellow   Yellow   Yellow	Blue   Green   Red
Nominal volume	2 µl   10 µl   20 µl   100 µl   200 µl	1000 µl   5000 µl   10 000 µl
Volume min.	0.1 µl   0.5 µl   2 µl   10 µl   20 µl	100 µl   500 µl   1000 µl
Volume max.	2 µl   10 µl   20 µl   100 µl   200 µl	1000 µl   5000 µl   10 000 µl
Increments	0.002 µl   0.01 µl   0.02 µl   0.1 µl   0.2 µl	 1 µl   5 µl   10 µl
Accuracy with nominal volume	±0.028 µl   ±0.1 µl   ±0.2 µl   ±0.8 µl   ±1.2 µl	±6 µl   ±30 µl   ±60 µl
Accuracy with nominal volume	±1.4 %   ±1 %   ±1 %   ±0.8 %   ±0.6 %	±0.6 %   ±0.6 %   ±0.6 %
Precision with nominal volume	±0.014 µl   ±0.04 µl   ±0.06 µl   ±0.2 µl   ±0.4 µl	±2 μl   ±7.5 μl   ±15 μl
Precision with nominal volume	±0.7 %   ±0.4 %   ±0.3 %   ±0.2 %   ±0.2 %	±0.2 %   ±0.15 %   ±0.15 %
Accuracy with 50% of nominal volume	±0.025 µl   ±0.075 µl   ±0.12 µl   ±0.5 µl   ±1 µl	±5 µl   ±30 µl   ±40 µl
Accuracy with 50% of nominal volume	±2.5 %   ±1.5 %   ±1.2 %   ±1 %   ±1 %	±1 %   ±1.2 %   ±0.8 %
Precision with 50% of nominal volume	±0.015 µl   ±0.04 µl   ±0.06 µl   ±0.15 µl   ±0.3 µl	±1 µl   ±6.25 µl   ±10 µl
Precision with 50% of nominal volume	±1.5 %   ±0.8 %   ±0.6 %   ±0.3 %   ±0.3 %	±0.2 %   ±0.25 %   ±0.2 %
Accuracy with 10% of nominal volume	±0.024 µl   ±0.025 µl   ±0.1 µl   ±0.3 µl   ±0.5 µl	±3 µl   ±12 µl   ±30 µl
Accuracy with 10% of nominal volume	±12 %   ±2.5 %   ±5 %   ±3 %   ±2.5 %	±3 %   ±2.4 %   ±3 %
Precision with 10% of nominal volume	±0.012 µl   ±0.018 µl   ±0.03 µl   ±0.1 µl   ±0.14 µl	±0.6 µl   ±3 µl   ±6 µl
Precision with 10% of nominal volume	±6 %   ±1.8 %   ±1.5 %   ±1 %   ±0.7 %	±0.6 %   ±0.6 %   ±0.6 %
Certificate of confirmity according to ISO 8655	Yes	Yes
Autoclavable	Yes	Yes
Dimensions (W x H x D)	30 x 248 x 63 mm	30 x 247 x 63 mm   30 x 219 x 63 mm   30 x 222 x 63 mm
Weight	0.089 kg   0.089 kg   0.09 kg   0.09 kg   0.091 kg	0.088 kg   0.099 kg   0.108 kg

The accuracy and precision data listed in the table (acc. to DIN EN ISO 8655) only apply if IKA pipette tips are used. Technical specifications are subject to change.











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TECHNICAL DATA	IKA PETTE multi 8 x 0.5-10 µl   10-100 µl   20-200 µl	IKA PETTE multi 12 x 0.5-10 μl  10-100 μl   20-200 μl	
Design	Air displacement piston-operated pipette	Air displacement piston-operated pipette	
Handling	Mechanical	Mechanical	
Volume	Variable	Variable	
Number of channels	8	12	
Colour Code	Gray   Yellow   Yellow	Gray   Yellow   Yellow	
Nominal volume	10 µl   100 µl   200 µl	10 ր    100 ր    200 ր	
Volume min.	0.5 µl   10 µl   20 µl	0.5 µl   10 µl   20 µl	
Volume max.	10 µl   100 µl   200 µl	10 µl   100 µl   200 µl	
Increments	0.01 µl   0.1 µl   0.2 µl	0.01 µl   0.1 µl   0.2 µl	
Accuracy with nominal volume	±0.2 µl   ±0.8 µl   ±1.6 µl	±0.2 µl   ±0.8 µl   ±1.6 µl	
Accuracy with nominal volume	±2 %   ±0.8 %   ±0.8 %	±2 %   ±0.8 %   ±0.8 %	
Precision with nominal volume	±0.1 µl   ±0.3 µl   ±0.6 µl	±0.1 µl   ±0.3 µl   ±0.6 µl	
Precision with nominal volume	±1 %   ±0.3 %   ±0.3 %	±1 %   ±0.3 %   ±0.3 %	
Accuracy with 50% of nominal volume	±0.2 µl   ±0.5 µl   ±1 µl	±0.2 µl   ±0.5 µl   ±1 µl	
Accuracy with 50% of nominal volume	±4 %   ±1 %   ±1 %	±4 %   ±1 %   ±1 %	
Precision with 50% of nominal volume	±0.1 µl   ±0.4 µl   ±0.65 µl	±0.1 µl   ±0.4 µl   ±0.65 µl	
Precision with 50% of nominal volume	±2 %   ±0.8 %   ±0.65 %	±2 %   ±0.8 %   ±0.65 %	
Accuracy with 10% of nominal volume	±0.08 µl   ±0.3 µl   ±0.6 µl	±0.08 µl   ±0.3 µl   ±0.6 µl	
Accuracy with 10% of nominal volume	±8 %   ±3 %   ±3 %	±8 %   ±3 %   ±3 %	
Precision with 10% of nominal volume	±0.05 µl   ±0.2 µl   ±0.25 µl	±0.05 μl   ±0.2 μl   ±0.25 μl	
Precision with 10% of nominal volume	±5 %   ±2 %   ±1.25 %	±5 %   ±2 %   ±1.25 %	
Certificate of confirmity according to ISO 8655	Yes	Yes	
Autoclavable	Yes	Yes	
Dimensions (W x H x D)	83 x 235 x 63 mm	119 x 235 x 63 mm	
Weight	0.135 kg   0.147 kg   0.160 kg	0.160 kg   0.182 kg   0.195 kg	

The accuracy and precision data listed in the table (acc. to DIN EN ISO 8655) only apply if IKA pipette tips are used. Technical specifications are subject to change.



To complement the work with PETTE fix, vario and multi pipettes, the following accessories from IKA are available for your laboratory:



LINEA Pipette rack

Secure and easy accessible mount for frequently used

Ident-No.: 0020018987



**RONDA** Pipette carousel stand Holds up to 6 single- or multi-channel pipettes.

Ident-No.: 0020107134



Pipette tips

The IKA range of pipette tips includes tips with and without filters. They provide a more accurate sample delivery and increased reproducibility. Available in sizes 0.1  $\mu$ l – 10 ml.



#### Pipette calibration software

IKA provides user-friendly pipette calibration software for planning, performing and documenting calibration tests. Ident-No.: 20022141

ACCESSORIES	DESCRIPTION	IDENT-NO.
LINEA	Pipette rack	0020018987
RONDA	Pipette carousel stand	0020107134
Tip xs bag	Pipette tip, 10 μl, transparent	0020017816
Tip xs tray	Pipette tip, 10 μl, transparent	0020017818
Tip xs box +	Filter tip, 10 μl, sterile, transparent	0020017820
Tip s bag	Pipette tip, 200 μl, transparent	0020017822
Tip s tray	Pipette tip, 200 μl, transparent	0020017823
Tip s box +	Filter tip, 200 µl, sterile, transparent	0020017824
Tip m bag	Pipette tip, 1000 μl, transparent	0020017826
Tip m box	Pipette tip, 1000 μl, transparent	0020017827
Tip m box +	Filter tip, 1000 μl, sterile, transparent	0020017828
Tip I bag	Pipette tip, 5 ml, transparent	0020017829
Tip I box	Pipette tip, 5 ml, transparent	0020017830
Tip xl bag	Pipette tip, 10 ml, transparent	0020017831
Tip xl box	Pipette tip, 10 ml, transparent	0020017832









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# Complete lab solutions

Our goal is to always offer you not only the highest quality devices, but also perfect laboratory solutions. And whoever uses pipettes for dispensing also needs ..



MATRIX Orbital Ident-No.: 0030000627

### Thermoshakers

MATRIX represents the high-performance product family of IKA thermal shakers. Even the smallest volumes mix reliably and completely in all laboratory applications (i.e. blood samples, pharmaceutical agents, DNA/RNA samples or ELISA assays). There is no cross-contamination; instead, what you get is optimum mixing. This is what the IKA MATRIX thermoshakers are all about:

- > You can mix, heat, cool or even all at the same time
- > They are impressive, with a speed of up to 3000 rpm
- > Aluminum die cast housing ensures secure positioning and excellent stability
- > Variable inserts broaden the scope of application



ULTRA-TURRAX® Tube Drive Power control Ident-No.: 0025005981

### Dispersers

The IKA UTTD power control disperser assures the best stirring, dispersing, grinding and homogenization results and has been devised in particular for the safe processing of infectious, toxic or odor-intensive samples. A particularly powerful motor gives it its name.

Its strengths at a glance:

- > Disposable sample tubes systematically prevent cross-contamination
- > Time can be preprogrammed and frequently used parameters can be stored in the library
- > The direction of rotation can be reversed
- > The turbo button brings even more intensity when mixing, dispersing or grinding



Loopster digital Ident-No.: 0004016000

### Shakers

IKA offers the perfect laboratory shaker for all mixing and shaking tasks. In addition to the tried and tested orbital and horizontal shakers, this also includes the incubation shaker.

#### Highlights:

- > Keep samples in motion
- > Reach up to 3000 rpm in continuous operation
- > Offer digital display, timer function and control via the laboratory software labworldsoft®
- > Have an extensive range of attachments
- > Are durable and safe



Trayster basic Ident-No.: 0004005000



ROCKER 3D digital Ident-No.: 0004001000













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### FAO

#### 1. Is every pipette individually calibrated upon delivery?

Yes, every pipette is reliably calibrated at IKA using state-of-theart robotics. The calibration complies with EN ISO 8655.

#### 2. Can I also calibrate the pipette later?

Yes, calibration tests for PETTE fix, vario and multi are extremely user-friendly with the IKA IPCS Pipette calibration software.

#### 3. Can I also have my pipette calibrated by IKA?

We are happy to take care of the calibration of your pipettes according to standards. Our service team is available to help you with any questions you may have.

#### 4. Are tools needed for the readjustment?

No, PETTE fix, vario and multi are designed in a way that you do not need any tools for readjustment.

### 5. Do tips from other manufacturers also fit onto IKA pipettes?

All models of the IKA PETTE are compatible with pipette tips from most manufacturers.

#### 6. Which liquids are ideally used for reverse pipetting?

Reverse pipetting is most suitable for liquids with high vapor pressure, high viscosity and a foaming tendency. It is also ideal for very small volumes. On the other hand, forward pipetting is used in aqueous solutions such as buffer solutions or dilute solutions.

#### 7. How to sterilize IKA PETTE fix, vario or multi?

IKA pipettes are fully autoclavable by heat sterilization under the following conditions: 121 °C, 2 bar for 20 minutes. Thanks to its simple design, the pipette can be cleaned and autoclaved even when disassembled. Alternatively, methods using UV radiation can be used.

# Scope of delivery











