



DISCOVERY Comfort

single & multichannel pipettes



SCIENCE AT YOUR FINGERTIPS

DISCOVERY Comfort

single channel pipette

DISCOVERY Comfort pipettes combine the highest levels of accuracy and precision with design innovations intended to make the pipetting experience more comfortable over prolonged periods. With dramatically reduced pipetting forces and improved ergonomics the new version of DISCOVERY pipettes represent a whole new advance in manual pipetting technology.

NEW



LOCKING MECHANISM
prevents accidental volume changes during pipetting



LARGER VOLUME DISPLAY
with easy-to-read numbers

CONTOURED SHAPE
is comfortable in either small or large hands

COLOUR-CODED RINGS
for technique or owner identification



VOLUME SETTING
using the pushbutton or thumbwheel



REDESIGNED SOFT SPRING SYSTEM
requires much lower pressures for pipetting



UV RESISTANT BODY
can be safely sterilized with UV radiation - even prolonged exposure

HEIGHT ADJUSTABLE EJECTOR
to accommodate virtually all brand of tips

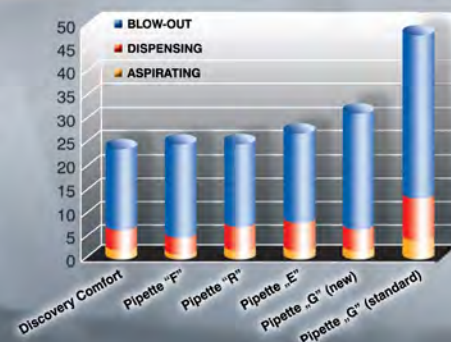


FULLY AUTOCLAVABLE

For sensitive laboratory applications, all DISCOVERY Comfort models are fully autoclavable at 121°C/100 kPa/20 min. Unlike many "autoclavable" pipettes, DISCOVERY Comfort requires minimal accuracy checks and/or recalibration.

Revolution in ergonomics

DISCOVERY Comfort is a revolutionary digital pipette which combines all the requirements of highest ergonomics and users comfort. Its body shape fits equally in small and large hands. Constructed from durable PP/PVDF they are noticeably lighter in weight than many competitive models. Our new thumb-friendly spring system has reduced plunger pressures by up to 50%. The large, smooth and rounded pushbutton completes the experience.



DISCOVERY Comfort *multichannel pipette*

DISCOVERY Comfort multichannel pipette shares many of the features of single channel model. The pipetting and ejecting buttons are ergonomically located and operate smoothly to allow comfortable pipetting by both right and left handed users. Additionally multichannel pipettes feature a revolutionary suspension system which allows the shafts to retract slightly when they are pressed against a row of pipette tips. Each shaft moves independently, resulting in an even sealing force being applied to all 8 or 12 tips. This ensures that all tips are secured on their individual shaft with the minimum of effort and never fall off!

REVOLUTIONARY MULTICHANNEL MANIFOLD

- Shaft withdraw when pressed against a row of tips
- Each shaft moves independently
- Even sealing force applied to all tips
- No jamming of side tips
- Safely sealed with lowest possible force
- Tips can be ejected with minimum effort



FINGER - HOOK
takes the weight,
for a more relaxed
grip



360° EJECTOR
pipette and eject
in any direction



CURVED EJECTOR BAR
reduces the force
required for ejection



Innovative ejection bar

The suspension system not only ensures secure tip sealing but also eliminates the common incidence of tips being jammed on pipette outer shafts. The innovative ejection bar is curved, allowing the tips to be pushed off in steps, therefore reducing the amount of force required for ejection. For comfortable pipetting in any direction improved DISCOVERY Comfort manifold now ejects tips within 360°. The use of advanced, lightweight materials in the body and piston assemblies of the pipette results in a pipette that will stand up to constant use, yet is easy to hold, even during extended pipetting sessions.

DISCOVERY Comfort pipette series

ordering information



* Coloured shaft pipettes upon request only

Model	Cat. no.	Colour code	Volume (µl)	A(%)	P(%)	Fit to tips (µl)
DV2 D2	4041 4051	Red	0,2 1,0 Max 2,0	$\pm 12,0$ $\pm 2,7$ $\pm 1,5$	$\pm 6,0$ $\pm 1,3$ $\pm 0,7$	10
DV10 D10	4042 4052	Red	Min 0,5 5,0 Max 10,0	$\pm 4,0$ $\pm 1,0$ $\pm 0,5$	$\pm 2,8$ $\pm 0,6$ $\pm 0,4$	
DV20 D20	4043 4053	Yellow	Min 2 10 Max 20	$\pm 3,0$ $\pm 1,0$ $\pm 0,8$	$\pm 1,5$ $\pm 0,5$ $\pm 0,3$	200
DV50 D50	4047 4057	Yellow	Min 5 25 Max 50	$\pm 2,5$ $\pm 1,0$ $\pm 0,8$	$\pm 2,0$ $\pm 0,6$ $\pm 0,4$	
DV100 D100	4044 4054	Yellow	Min 10 50 Max 100	$\pm 1,6$ $\pm 0,8$ $\pm 0,8$	$\pm 0,80$ $\pm 0,24$ $\pm 0,20$	
DV200 D200	4045 4055	Yellow	Min 20 100 Max 200	$\pm 1,2$ $\pm 0,8$ $\pm 0,6$	$\pm 0,60$ $\pm 0,25$ $\pm 0,20$	
DV250 D250	4040 4050	Green	Min 50 125 Max 250	$\pm 1,0$ $\pm 0,8$ $\pm 0,6$	$\pm 0,4$ $\pm 0,3$ $\pm 0,3$	300
DV1000 D1000	4046 4056	Blue	Min 100 500 Max 1000	$\pm 1,6$ $\pm 0,7$ $\pm 0,6$	$\pm 0,40$ $\pm 0,20$ $\pm 0,15$	1000
DV5000 D5000	4048 4058	White	Min 1000 2500 Max 5000	$\pm 0,6$ $\pm 0,6$ $\pm 0,5$	$\pm 0,25$ $\pm 0,20$ $\pm 0,15$	5000
DV10000 D10000	4049 4059	White	Min 1000 5000 Max 10000	$\pm 2,5$ $\pm 0,8$ $\pm 0,5$	$\pm 0,6$ $\pm 0,3$ $\pm 0,2$	10000



*On special request HTL supplies non-standard coloured shaft pipette series version. Please contact HTL staff or your distributor for details. The DV/D2 minimum volume is 0.1 µl.

Model	Cat. no.	Colour code	Volume (µl)	A(%)	P(%)	Fit to tips (µl)
DV8-10 DV12-10	5121 5125	Red	Min 1 5 Max 10	$\pm 8,0$ $\pm 4,0$ $\pm 2,0$	$\pm 6,0$ $\pm 2,0$ $\pm 1,2$	10
DV8-50 DV12-50	5122 5126	Yellow	Min 5 25 Max 50	$\pm 4,0$ $\pm 3,0$ $\pm 1,6$	$\pm 2,5$ $\pm 1,2$ $\pm 0,6$	200
DV8-200 DV12-200	5123 5127	Yellow	Min 20 100 Max 200	$\pm 3,0$ $\pm 1,5$ $\pm 1,0$	$\pm 1,5$ $\pm 0,8$ $\pm 0,6$	200
DV8-300 DV12-300	5124 5128	Green	Min 50 150 Max 300	$\pm 1,6$ $\pm 1,2$ $\pm 1,0$	$\pm 1,5$ $\pm 1,0$ $\pm 0,6$	300



User calibration

After determining inaccuracy gravimetrically and referring to the manual for detailed instructions.



Remove pushbutton set.



Insert calibration key and locate in key slots. The calibration key is delivered with the pipette.



Turn key to increase or decrease display volume.



Replace pushbutton set and procedure is complete.

4 easy steps

Quality control

Calibrated and issued with a unique individual certificate of accuracy and precision to guarantee the standards set by the manufacturing quality management systems - certified to ISO 9001/2000.



All DISCOVERY *Comfort* internal components are engineered to bring a new standard in pipetting performance. All raw materials are carefully selected to guarantee long pipette life even in the most severe environments. Included in our comprehensive quality procedures:

- Component testing
- Durability testing
- Aging/Transportation testing



Starter kit

DISCOVERY STARTER KIT - three pipettes conveniently packed at an economical price - creates an interesting opportunity for the users who are just starting to equip their laboratory, or who decided to switch to HTL pipetting system. There are two DISCOVERY starter kits, which contain 3 DISCOVERY *Comfort* pipettes in most popular and universal volumes: **DISCOVERY STARTER KIT** (2-20 μ l, 20-200 μ l and 100-1000 μ l) and **DISCOVERY STARTER KIT BIO** (0.5-10 μ l, 10-100 μ l and 100-1000 μ l). Each starter kit is delivered with useful accessories:

- tip racks
- calibration tools
- pipette hangers
- colour-coded rings
- instruction manual



Product	Cat. no.	Pipettes	Accessories
DISCOVERY STARTER KIT	7924	Pipette DV20 Pipette DV200 Pipette DV1000	Tips 200 μ l, 96 pcs Tips 1200 μ l, 96 pcs Calibration tool x 3 Pipette hanger x 3 Instruction manual
	7926*	Pipette D20 Pipette D200 Pipette D1000	
DISCOVERY STARTER KIT BIO	7923	Pipette DV10 Pipette DV100 Pipette DV1000	Tips 10 μ l, 96 pcs Tips 200 μ l, 96 pcs Tips 1200 μ l, 96 pcs Calibration tool x 3 Pipette hanger x 3 Instruction manual
	7925*	Pipette D10 Pipette D100 Pipette D1000	

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Pipette stands

In order to ensure convenient storage of pipettes, HTL offers a wide range of single and multiple stands.



5446

CAROUSEL



5484

ROTATING



5480

LINEAR



5479

8/12-CHANNEL

HTL pipette tips

HTL Pipette Tips are designed to fit a wide variety of single and multichannel pipettes. Flexible walls and the diameter of tips collars ensure a secure fit with less force required to load and eject. All pre-sterilized tips are exposed to e-beam radiation for complete security without degrading the plastic or performance. Tips are manufactured in one of the most technically advanced Axygen plastic disposable production facility in clean room conditions. HTL Pipette Tips are certified to be free from bio active contaminants as RNase, DNase or pyrogens. HTL tips are offered in standard, sterile and filtered versions in all popular packaging formats:



BULK



RACK



**REFILL
SYSTEM**

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