



DISCOVERY PRO

single & multichannel pipettes



ERGONOMICS
• SUPERIOR •
PERFORMANCE

SCIENCE AT YOUR FINGERTIPS

DISCOVERY PRO

single channel pipette

Creating new products HTL always focuses on ergonomics, accuracy and precision. The new single and multichannel DISCOVERY PRO pipette series is uniquely dedicated to the three key features. The contoured shape of the handle and finger-hook guarantee correct grip reducing wrist strain and fatigue. The tip ejection force is reduced by more than 30% thanks to the unique pushbutton-lever system. In addition to the outstanding comfort, the new DISCOVERY PRO pipette offers quick and easy volume settings even when used with gloves. All DISCOVERY PRO pipette models are fully autoclavable (121°C/ 100kPa/ 20 min.) and can be safely sterilized with UV radiation.



VOLUME SETTING & LOCKING
mechanism enables
one-handed operation

**VERY FAST
COUNTER REWINDING**
for quick and easy volume
adjustment

THERMAL INSULATION
of internal parts improves
accuracy

**DURABLE
SEALING SYSTEM**
- effective for over 60k cycles



USER CALIBRATION
with the calibration
switch and key



**VOLUME RANGE
COLOUR-CODING**
for easy pipette
and tip selection

4-DIGIT COUNTER
located on the front
side remains visible
at all time

**ULTRA LIGHT WEIGHT
& EXTREMELY LOW
PIPETTING FORCES**
for exceptional comfort

LONG TIP EJECTOR STROKE
to accommodate virtually
all brands of tips

EASY MAINTENANCE
thanks to the revolutionary internal construction



DISCOVERY PRO

multichannel pipette

DISCOVERY PRO multichannel pipette is equipped with volume setting/locking mechanism, 4-digit counter and also soft thumb-friendly spring-system, which guarantees smooth pipetting of 8 and 12-channels. Thanks to the innovative pipette construction all internal components are thermally insulated from the handle therefore eliminating heat transfer from the hand and ensuring pipette accuracy. DISCOVERY PRO multichannels feature a revolutionary suspension system that ensures secure tip sealing and also eliminates the common incidence of tips being jammed on pipette outer shafts. The curved ejection bar allows tips to be pushed off in steps, therefore reducing the amount of force required for ejection.

THERMAL INSULATION
of internal parts improves accuracy

PUSHBUTTON-LEVER SYSTEM
reduces ejection force by over 30%!



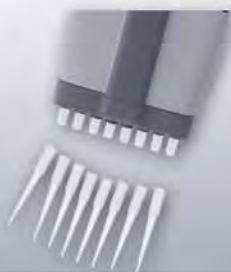
360° MANIFOLD
for optimal working comfort

ERGONOMIC HANDLE DESIGN
suitable for small or large hands



DURABLE SEALING SYSTEM
- effective for over 60k cycles

FULLY AUTOCLAVABLE
121°C/ 100 kPa/20 min.



UV RESISTANT BODY
can be safely sterilized with UV radiation

SEQUENTIAL TIP EJECTOR
allows tip ejecting with minimum effort

TIP LOADING MECHANISM
for perfect tip sealing



DISCOVERY PRO pipette series

ordering information

Model	Cat. no.	Colour code	Volume (μ l)	A(%)	P(%)	Fit to tips (μ l)	
DP2*	6001	Red	0.2	± 12.0	± 6.0	10	
			1.0	± 2.7	± 1.3		
			Max 2.0	± 1.5	± 0.7		
DP10	6002	Red	Min 0.5	± 4.0	± 2.8		
			5.0	± 1.0	± 0.6		
			Max 10.0	± 0.5	± 0.4		
DP20	6003	Yellow	Min 2	± 3.0	± 1.5	200	
			10	± 1.0	± 0.5		
			Max 20	± 0.8	± 0.3		
DP100	6004	Yellow	Min 10	± 1.6	± 0.80		
			50	± 0.8	± 0.24		
			Max 100	± 0.8	± 0.20		
DP200	6005	Yellow	Min 20	± 1.2	± 0.60	200	
			100	± 0.8	± 0.25		
			Max 200	± 0.6	± 0.20		
DP1000	6006	Blue	Min 100	± 1.6	± 0.40		1000
			500	± 0.7	± 0.20		
			Max 1000	± 0.6	± 0.15		
DP8-10 DP12-10	4951 4955	Red	Min 1	± 8.0	± 6.0	10	
			5	± 4.0	± 2.0		
			Max 10	± 2.0	± 1.2		
DP8-50 DP12-50	4952 4956	Yellow	Min 5	± 4.0	± 2.5	200	
			25	± 3.0	± 1.2		
			Max 50	± 1.6	± 0.6		
DP8-200 DP12-200	4953 4957	Yellow	Min 20	± 3.0	± 1.5		
			100	± 1.5	± 0.8		
			Max 200	± 1.0	± 0.6		
DP8-300 DP12-300	4954 4958	Green	Min 50	± 1.6	± 1.5	300	
			150	± 1.2	± 1.0		
			Max 300	± 1.0	± 0.6		



* The DP2 minimum volume is 0.1 μ l

Quality control certificate

QUALITY CONTROL CERTIFICATE			
<p>PE HTL S.A. is in possession of a registered and certified quality management system, which includes the development, production and sales of high quality Liquid Handling products.</p> <p>Each instrument passes stringent validation and Control Procedures in accordance with EN ISO 8655.</p> <p>All HTL manual pipettes are CE marked.</p>			
<p>Model: DP100</p> <p>Serial: 060040001</p> <p>Cat.No.: 6004</p> <p>Date: 23.11.10</p> <p>Tested by: B02</p> <p>Status:</p>	<p>Volume (μl) : 10.000</p> <p>Accuracy (%) : 0.263</p> <p>Precision (%) : 0.115</p> <p>Passed</p>	<p>Volume (μl) : 100.00</p> <p>Accuracy (%) : 0.260</p> <p>Precision (%) : 0.113</p> <p>Passed</p>	
<p>Tested with distilled water: Condition of measurements: Basis of adjustment: Ex; Reference temperature: 20°C; Relative air humidity: 50%; Barometric pressure: 101kPa PE HTL S.A. Daniszewska 4, 03-230 Warsaw, Poland.</p>			

Each HTL pipette is supplied with an individual QC certificate, attesting the strict factory control and excellent performance values obtained. Conformity to ISO 8655 and IVD 98/79/EC Directives. The production standards set by the manufacturing quality management systems – certified to ISO 9001/2000.

User calibration

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Remove the colour cap using the calibration key. Set the calibration switch in its upper position.



Insert the calibration key into the ejector orifice. Turn the key so as the volume indicated by the counter is equal to the average calculated volume.



Remove the calibration key and set the calibration switch in its lower position. Place the cap on the ejector button.

3 easy steps

Easy maintenance

All pipettes require periodic maintenance, depending on the applications performed and intensity of use. The subassemblies subject to action of aggressive solution vapors, such as shaft elements, should be regularly inspected and cleaned. Regular cleaning and maintenance will help to ensure the continuous performance of a pipette. The DISCOVERY PRO has been designed for easy cleaning and maintenance. External surfaces of the handgrip, knob and pushbuttons may be cleaned with a tissue dipped in isopropyl alcohol. The remaining elements removed from the pipette during disassembly can be washed with distilled water or isopropyl alcohol. It is not necessary to disassemble the entire set to inspect and clean the shaft.*

- Unscrew the shaft from the shaft holder set.



- When the shaft is removed, the seal and the o-ring are automatically moved out of the shaft holder set to make maintenance as easy as possible.



* Pipette volumes 2-100 μ l



Starter 4 PACK



DISCOVERY PRO STARTER 4 PACK (cat. no. 7903) creates an interesting opportunity for all users who are just starting to equip their laboratory, or who decided to switch to HTL pipetting system. The starter pack includes four pipettes: DP10, DP20, DP200, DP1000, four position universal linear stand and also three racks of HTL pipette tips. Each STARTER 4 PACK is delivered with some useful accessories:

- calibration keys
- pipette hangers
- instruction manuals

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 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:



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