



HTL LAB SOLUTIONS

2011 Pipettes Portfolio



Single channel pipettes

OPTIPETTE
*Value
Option*



DISCOVERY Comfort
*Exceptional
Functionality*



DISCOVERY PRO
*Performance
& Ergonomics*





Multichannel pipettes

OPTIPETTE
*Value
Option*



DISCOVERY Comfort
*Exceptional
Functionality*



DISCOVERY PRO
*Performance
& Ergonomics*





OPTIPETTE – Value Option

Economical pipette – durable, chemical and UV resistance couples with accuracy and precision.



DISCOVERY Comfort – Exceptional Functionality

Comfort, performance and reliability. A perfect combination features/ performance.






DISCOVERY PRO- Performance & Ergonomics

Highly ergonomic due to light weight and lowest plunger forces.




Available models



	<p>1-ch (8 models): 2µl, 10µl, 20µl, 100µl, 200µl, 1000µl, 5000µl, 10000µl</p> <p>8-ch (4 models): 10µl, 50µl, 200µl, 300µl</p> <p>12-ch (4 models): 10µl, 50µl, 200µl, 300µl</p>
	<p>1-ch (10 models): 2µl, 10µl, 20 µl, 50µl, 100µl, 200µl, 250µl, 1000µl, 5000µl, 10000µl</p> <p>8-ch (4 models): 10µl, 50µl, 200µl, 300µl</p> <p>12-ch (4 models): 10µl, 50µl, 200µl, 300µl</p>
	<p>1-ch (6 models): 2µl, 10µl, 20µl, 100µl, 200µl, 1000µl</p> <p>8-ch (4 models): 10µl, 50µl, 200µl, 300µl</p> <p>12-ch (4 models): 10µl, 50µl, 200µl, 300µl</p>

Main features



	<ul style="list-style-type: none"> ✓ Slim ergonomic design ✓ Robust, long-lasting construction ✓ High chemical and UV resistance ✓ Easy 'in-lab' re-calibration ✓ Universal tip compatibility 	<p>Multichannel module:</p> <ul style="list-style-type: none"> ✓ Light weight ✓ Smooth pipetting ✓ Durable tip shaft material ✓ Tip loading mechanism for perfect tip sealing ✓ Ejector rotates 360° for optimal working comfort ✓ Easy sequential tip ejection ✓ No jamming of side tips
	<ul style="list-style-type: none"> ✓ One-handed dual volume setting using the pushbutton or thumbwheel ✓ Reduced operating forces ✓ Locking mechanism prevents accidental volume changes ✓ Autoclavable fully assembled without recalibration ✓ Colour coding for individual identification 	
	<ul style="list-style-type: none"> ✓ Excellence in ergonomics ✓ Quick volume adjustment + locking mechanism ✓ Ultra light weight and soft plunger springs ✓ 4-digits volume display located on the front side remains visible at all times ✓ Lever system for effortless tip ejection ✓ Long tip-ejector stroke to accommodate virtually all brands of tips ✓ Thermal insulation of the internal components improves accuracy ✓ Calibration system - with a key and locking mechanism ✓ Easy maintenance 	



All pipettes features:

- volume range colour-coding for easy pipette and tip selection
- durable sealing system – effective for over 60,000 cycles
- universal tip compatibility
- 3-year warranty
- supplied with an individual QC certificate, attesting the strict factory control and excellent performance values obtained.
Conformity to ISO 8655 and IVD 98/79 EEC directives.




Comparison - key features



Feature	 OPTIPETTE	 DISCOVERY <i>Comfort</i>	 DISCOVERY <i>PRO</i>
Autoclavability	Lower parts	Fully	Fully
UV resistance	Yes	Yes	Yes
Re-calibration	Yes	Yes	Yes
Volume setting	knob	pushbutton or knob	thumbwheel
Volume locking	No	Yes	Yes
Thermal insulation	No	No	Yes
Warranty	3-year	3-year	3-year
CE/IVD marked	Yes	Yes	Yes
Volume covered [μ l]	0,2-10000	0,2-10000	0,1-1000
Starter kit (3 pipettes + tips) available	No	Yes	No
Starter 4 PACK (4 pipettes+ stand+ tips) available	Yes	Yes	Yes




Comparison - key features



Feature	 OPTIPETTE	 DISCOVERY <i>Comfort</i>	 DISCOVERY <i>PRO</i>
Autoclavability	No	Fully	Fully
UV resistance	Yes	Yes	Yes
Re-calibration	Yes	Yes	Yes
Volume setting	knob	pushbutton or knob	thumbwheel
Volume locking	No	Yes	Yes
Thermal insulation	No	No	Yes
Warranty	3-year	3-year	3-year
CE/IVD marked	Yes	Yes	Yes
Volume covered [μ l]	0,5-300	1-300	1-300

Comparison – technical data



Parameter	 OPTIPETTE 20 - 200µl	 DISCOVERY Comfort 20 - 200µl	 DISCOVERY PRO 20 - 200µl
Weight [g]	91,7	102	80,52
Pipetting forces [N]			
1-start	3,5	3	1,7
2-First stop	5	4	2,1
3-Second stop	14,5	13	11,5
4-Blow-out	16,5	15	14
Tip- ejection* [N]	16 ÷18	22 ÷23	12 ÷13

*measured with Axygen tip 200µl attached with force 30N