

PIPETMAN[®] *Ultra*

*Get more
from your
pipetting system*

PIPETMAN[®] Ultra

Ultra Accuracy and Precision

Like all other Gilson pipettes, the **PIPETMAN[®] Ultra** has been designed and manufactured to provide you with a robust, accurate and precise instrument. Now, you can enjoy additional innovations that will be of practical assistance in your daily work.



Exclusive Patented Multi-Functional Electronic Display

Introducing a major improvement in pipetting — an electronic display.

- *Greater readability.*
- *More accurate four-digit display, plus decimal point and volumetric units.*
- *Zero risks of parallax errors*

Ultra Range of Models

PIPETMAN[®] Ultra — a wide choice of models for even the most demanding tasks — clinical, research or control laboratories.





Ultra GLP Features

Innovating to give you more security and traceability, the **PIPETMAN® Ultra** assists you in setting up GLP's down to pipetting level, giving you essential information.

Pipetting Workflow Control

Cycle counters:

- From the last time the volume was set — to count the number of cycles in the current run.
- Since the pipette was first used — to count the number of cycles for servicing purposes.



Pipette Coding

Personalize your pipette by writing your name or application on one of the color coded stickers (protected by the plastic cover). Or, use the bar code sticker from the warranty card. Color coded thumb-wheel and push-button identify model, with useful volume range shown on the push-button.



GLP Security Functions

- Out of specification warning — the display flashes when selecting an out-of-specification volume.
- Lockable volume with on-screen display for no risk of volume change during pipetting.



Ultra Comfort Improvements

How many samples a day? You deserve more comfort and less fatigue. Consider **PIPETMAN® Ultra**: the ergonomic design makes it easier to grip, fits naturally in your hand and requires less effort to use — for smoother pipetting, every day!



Ultra Pipetting Force vs. Competition

Model	Pipetage	Replage	Ejection
Mod 1	9	7	34
Mod 3	8	6	21
Mod 4	9	6	42
Mod 4	12	4	32
PIPETMAN® Ultra	5	2	16
Mod 7	11	5	33

Value unit : N (Newton)

Soft Comfort in Pipetting

With the new design of the **PIPETMAN® Ultra**, you really produce less force while pipetting, which results in stress-free, longtime pipetting.

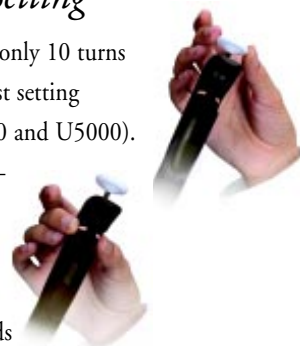
Natural Movement

Right or left-handed? With the new three position natural movement tip-ejector you require less force to eject tips, resulting in less fatigue. No more sore thumbs!



Quick Volume Setting

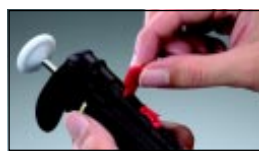
Set the volume quickly: only 10 turns from the lowest to highest setting (includes U2, U20, U200 and U5000). Easy to set the volume — either with one hand using the thumb-wheel (even when wearing gloves), or with two hands using the push-button.



Ultra Easy Maintenance

Prevention is the best cure. With proper care, your **PIPETMAN® Ultra** will ensure the highest level of precision and accuracy, year after year. It is easy to dismount and clean right in your own laboratory.

Calibrate easily with only one tool!



Now, calibrating your **PIPETMAN® Ultra** takes only a few minutes. The tool and its electronic display are a perfect pair for easy and secure calibration in your lab.

Autoclavable

The parts of **PIPETMAN® Ultra** that normally come into contact with liquids (tip-holder, tip-ejector) are autoclavable!

On-site Maintenance for Better Performance



The removable tip-ejector allows easy access to the user-serviceable parts. The tip-ejector is made of PVDF to avoid corrosion.

The tip-holder is in two parts for easy maintenance and cleaning.




- Decontamination? Special applications? Breakage? Simply screw off the lower part!
- Direct access to piston and o-ring for easy maintenance.

Higher Tip Compatibility

Adjustable tip ejector stroke (patented) for maximum compatibility with tips, and for improved comfort when ejecting tips.





*Comfortably,
the best accuracy
and precision...*

*... innovative GLP features,
easy maintenance and cleaning.*

Probably the most comfortable pipette ever.

Model Reference	Accuracy (mean error)			Precision (repeatability)	
	Volume (μ l)	Absolute μ l	Relative %	Absolute SD μ l	Relative SD%

U2	Min.	0.2	± 0.024	± 12	≤ 0.012	≤ 6
F21021		0.5	± 0.025	± 5	≤ 0.012	≤ 2.50
	Max.	2	± 0.030	± 1.5	≤ 0.014	≤ 0.70
U10	Min.	1	± 0.025	± 2.5	≤ 0.012	≤ 1.25
F21022		5	± 0.075	± 1.5	≤ 0.030	≤ 0.60
	Max.	10	± 0.10	± 1	≤ 0.040	≤ 0.40
U20	Min.	2	± 0.1	± 5.0	≤ 0.03	≤ 1.50
F21023		5	± 0.1	± 2.0	≤ 0.04	≤ 0.80
		10	± 0.1	± 1.0	≤ 0.05	≤ 0.50
	Max.	20	± 0.2	± 1.0	≤ 0.06	≤ 0.30
U100	Min.	20	± 0.35	± 1.8	≤ 0.10	≤ 0.50
F21024		50	± 0.4	± 0.8	≤ 0.12	≤ 0.24
	Max.	100	± 0.8	± 0.8	≤ 0.15	≤ 0.15
U200	Min.	20	± 0.5	± 2.5	≤ 0.20	≤ 1.00
F21025		50	± 0.5	± 1.0	≤ 0.20	≤ 0.40
		100	± 0.8	± 0.8	≤ 0.25	≤ 0.25
	Max.	200	± 1.6	± 0.8	≤ 0.30	≤ 0.15
U1000	Min.	200	± 3.0	± 1.5	≤ 0.6	≤ 0.30
F21026		500	± 4.0	± 0.8	≤ 1.0	≤ 0.20
	Max.	1000	± 8.0	± 0.8	≤ 1.5	≤ 0.15
U5000	Min.	1000	± 12	± 1.2	≤ 3.0	≤ 0.30
F21027		2000	± 12	± 0.6	≤ 5.0	≤ 0.25
	Max.	5000	± 30	± 0.6	≤ 8.0	≤ 0.16
U10ml	Min.	1 ml	± 30	± 3	≤ 6	≤ 0.6
F21028		2 ml	± 30	± 1.5	≤ 6	≤ 0.3
		5 ml	± 40	± 0.8	≤ 10	≤ 0.2
	Max.	10 ml	± 60	± 0.6	≤ 16	≤ 0.16

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