

Direct Digital Titration

Accelerate your productivity by radically streamlining your titration workflow

Direct Digital Titration – brought to you by Tecan, powered by HP Direct Digital Dispensing Technology

It's so simple you will never want to use manual or automated dilution again!

Accelerate the drug discovery process in your laboratory while at the same time avoiding waste. Tecan brings you a digital drug titration device enabling the fast delivery of picoliter - microliter sample volumes enabling a shorter titration process than ever – all of which means effective and efficient titration to accelerate the productivity of your laboratory while at the same time providing results you can trust.

Key benefits

Enables new more productive and efficient experiment design

Dispense any dose in any well in as low as 13pL droplet sizes

Increase productivity, no automation set-up or queue time

Minimize drug titration times

Other things to do than manual generation of titration curves or waiting in line for access to automation? Cut titration turnaround times to minutes vs. hours or days. Achieve fast and precise performance across a wide dynamic range. Eliminates slow, error-prone and wasteful manual steps, saving you time and labour costs. Improve your personal productivity with a solution that enables walk-up, just in time use.

Beautiful data curves

Want to improve results? Work with a digital titration solution that enhances your capabilities and delivers improved results. Dispense any dose in any well and minimize edge-effects with built-in randomized plate layouts.

Dosing capability

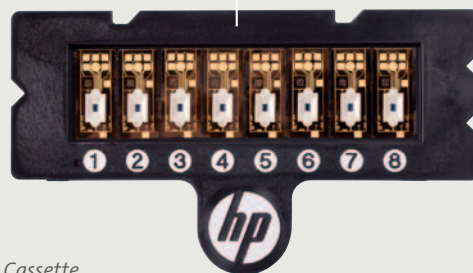
Need a wider dynamic range? Dispense compounds drop-by-drop from 13pL up to 5uL in seconds. Achieve <8% CVs for volumes greater than 100pL with excellent data resolution (0.02Log increments).

Cost savings

Want to reduce compound waste? Preserve precious labour times as well as compound, plates, tips and solvents. Avoid carry-over with single use, non-contact dispensing supplies, reducing the need to repeat your assays.



HP D300 Digital Dispenser



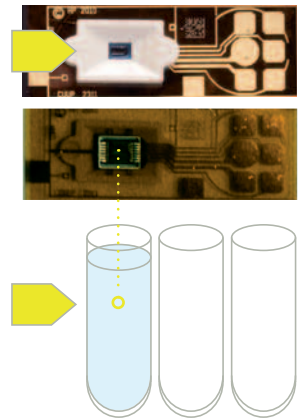
HP T8 Dispensehead Cassette

Main features

Direct digital dispensing system

Dispensehead enables more effective and efficient titration to radically streamline your workflow. Manually pipette a few microliters, then dispense volumes of 13pL to 5uL directly into wells for enzymatic or cell-based assays. Achieve fast and precise dispense performance across a wide dynamic range. Eliminate serial dilution and easily dispense directly into bio-assay plates.

- Dispense any dose in any well – in as low as 13pL increments
- 13pL - 5uL dispensing for direct titration
- Compound waste <1uL



Digital dosing capability

Digital dosing combined with the dynamic range enables any dose in any well to greatly enhance your capabilities and deliver improved results.

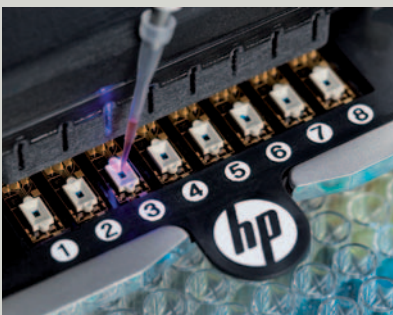
- Cycle time is less than 30 seconds per titration
- Benefit from beautiful data curves
- Enable complex experiments, complete drug-drug co-titration in minutes
- Achieve excellent data resolution



Ready-to-run benchtop convenience

Walk-up and use convenience significantly speeds up titration turnaround. Why waste time? Simple walk-up use combined with easy to use DOE software and a wide dynamic range means there's no manual or automated serial dilutions. Digital buys you easy set-up and enables any dose in any well.

- Single use digital dispensehead reduces risk of cross contamination
- Intuitive, easy to use experiment design software enables you to digitally dispense any drop in any well, making complex plate layout generation fast and simple which is not possible with any analog technology



Lean, green digital titration

Save time and money while reducing solid and chemical waste.

- Eliminate use of intermediate plates
- Decrease use of pipette tips
- Decrease solvents / chemical use
- Minimize packaging waste



Direct Digital Titration, the environmentally friendly option

Performance Specifications

Dispensing Volume Range	13pL – 5uL
Lowest dispensing increments	13pL
Precision	CV = <8%*
Dispensing Speed	13pL – 5uL in seconds
Cycle Time	< 30 seconds per titration
Compound Waste	<1ul

*For volumes > 100 picoliters

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