

IonFlux Mercury

The fastest, most compact and fully integrated APC on the market

Unprecedented ion channel assay simplicity & speed

IonFlux systems are used all over the world in industry and academic labs to simplify and speed up complicated ligand and voltage gated assays. With its unique microfluidic plates, IonFlux is the only system where all cell recordings and liquid exchange are performed within the plate proper, providing unique features including parallel and flexible liquid control and continuous flow.

Building on this great lineage, IonFlux Mercury represents the next generation in this automated patch clamp system. New features include:

- Higher enhancement in liquid exchange: IonFlux systems are unique in providing continuous flow and rapid liquid exchange necessary for complicated ligand gated channel assays. The IonFlux Mercury enhances this ability by adding more precise flow control and liquid displacement.
- Integrated and remote operation: IonFlux Mercury includes a powerful dedicated and embedded computer and a touch screen for simple operation. Basic operations are managed via a simple touch interface. The system can be also remotely controlled and monitored from any other computer, allowing for ease of integration into difficult to access rooms and HTS centers.
- Extensive data recording: IonFlux Mercury can record extremely long data sweeps with no interruption providing an even better platform for extensive ligand gated channels assays such as PAM effects, desensitization recovery and open channel block.
- Standard temperature control: Temperature control is now a standard feature on all Mercury systems with a powerful positive feedback system controlled easily via software.
- Optional current clamp: IonFlux Mercury can be purchased with current clamp providing the maximum assay flexibility.



Flexible Systems

IonFlux Mercury comes standard with 16 amplifiers while IonFlux Mercury HT comes with 64 amplifiers, essentially quadrupling the throughput. The systems are easily stackable and automation ready for use in High throughput screening centers.

	IonFlux Mercury 16	IonFlux Mercury HT
Dimensions	50 cm x 50 cm x 25 cm	50 cm x 50 cm x 25 cm
Design	Bench top	Bench top
Amplifiers	16 channels	64 channels
Maximal sampling rate	20 KHz	20 KHz
Maximal sweep length (@0.5 KHz)	300 seconds	300 seconds
Temperature control	Integrated (ambient to 40°C)	Integrated (ambient to 40°C)
Plate format	SBS standard 96 well	SBS standard 384 well
Recording format	20 cell ensemble or single cell	20 cell ensemble or single cell
Current clamp	Yes	Yes
Experiments per plate	8 unique	32 unique
Recordings per experiment	2 independent	2 independent
Operation	Integrated – remote	Integrate - remote
Software	Integrated – touch enabled	Integrated – touch enabled
Operating System	Windows 10 – 64bit	Windows 10 – 64bit



IonFlux systems and plates are sold and distributed by Fluxion Biosciences and its partners. Visit our website for more details.

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