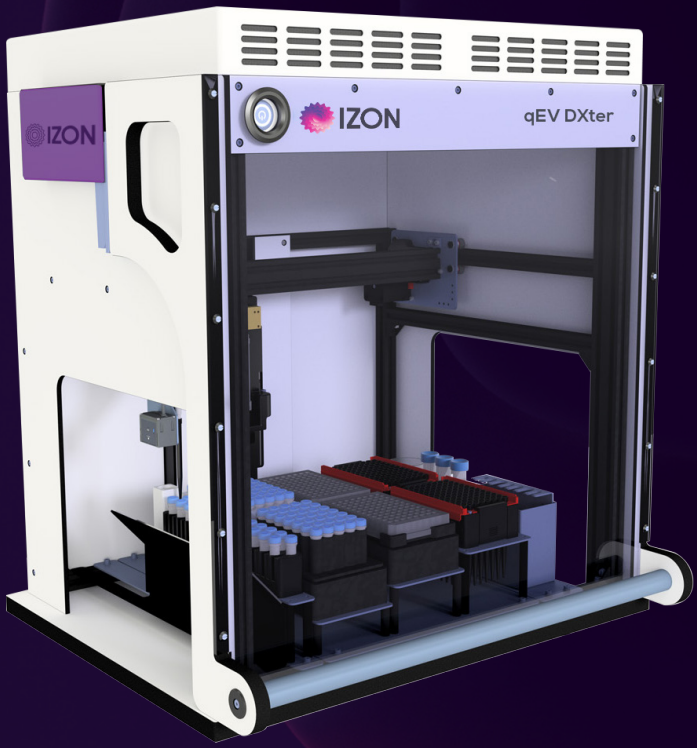
qEV DXter

HIGH-THROUGHPUT AND AUTOMATED EXTRACELLULAR VESICLE ISOLATION FROM qEV COLUMNS



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MEET DXTER: YOUR ROBOTIC ASSISTANT FOR HIGH-THROUGHPUT EV ISOLATION

Increase EV isolation processing capacity with advanced liquid handling technology

The qEV DXter, or 'Dexter' as we like to call him, utilises a robotic gantry system and advanced pipetting technology to deliver high-throughput extracellular vesicle isolation from qEV columns. Packaged in a compact format, the DXter fits seamlessly into EV-focused laboratories of all sizes.

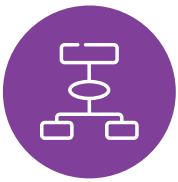
Pipetting accuracy, reproducibility and long-term reliability are ensured through the use of a precision glass syringe, trusted by hundreds of clinical laboratories worldwide. The gantry robot system was selected for its highly configurable nature and ability to move payloads with precision.

Increase daily processing capacity

Maximise your efficiency with the qEV DXter and its precise liquid handling technology. Boost throughput using 12 qEVoriginal columns or 24 qEVsingle columns per run, with each cycle taking approximately 45-90 minutes depending on the process.

Skip the tedious manual work

Save precious time and minimise manual errors by automating the entire EV isolation process. The qEV DXter handles everything from sample identification and column preparation to buffer addition, sample pipetting and EV isolate collection.

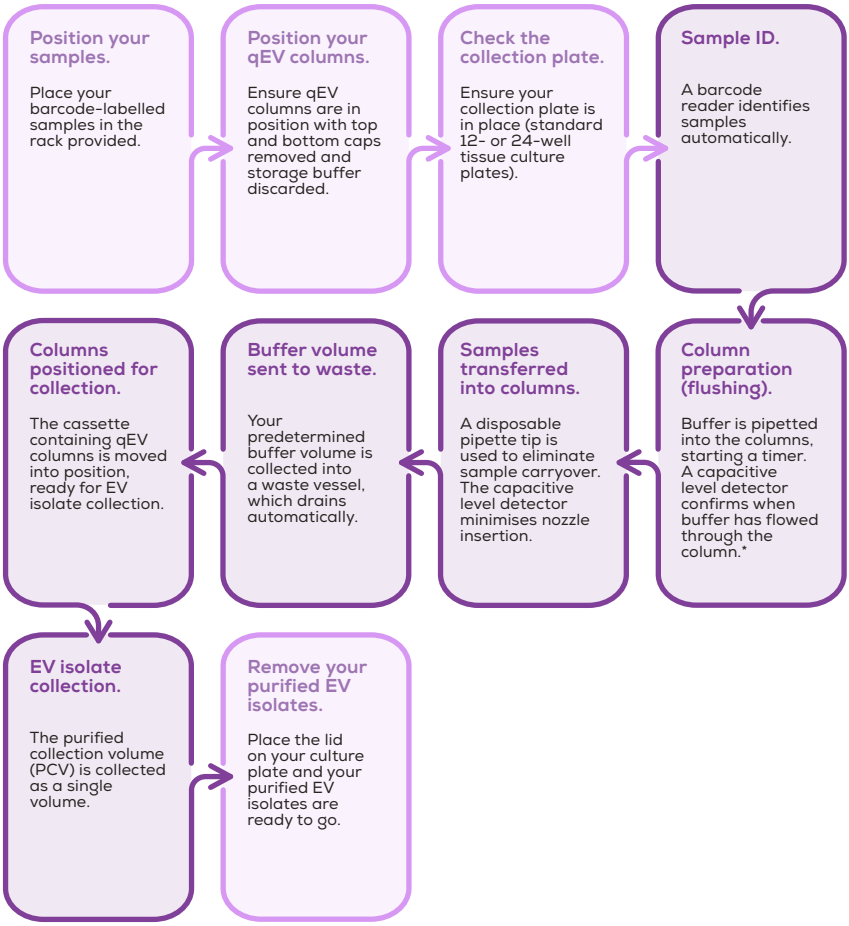


Skip the tedious manual work

Programme your workflow by optimising liquid volumes, pipetting speeds, and timed steps. Easily customise and export your CSV file to keep track of processed samples. The qEV DXter is designed for a typical qEV isolation workflow, with the potential for additional functionalities to be added upon request. While column cleaning is not part of standard operation, it can be arranged to facilitate column reuse if desired.

EXPERIENCE EFFORTLESS EV ISOLATION

The qEV DXter's robotic arm moves with stability and precision along the X, Y and Z axes as it transitions through each stage of the workflow. With DXter handling most of the work, your input is only required for the steps in the light purple boxes:



*If a column is detected as blocked or slow and exceeds the maximum allowed time, it will be flagged and can be excluded from further processing.

qEV DXter SPECIFICATIONS

Deck Capacity	12 qEVoriginal or 24 qEVsingle columns
Probe Working Area (w x d x h)	360 x 240 x 130 mm
Minimum Detectable Sample Volume	50 µL (depending on sample container)
Pumping System	Syringe volume = 2.5 mL High-resolution syringe pump (5 steps per µL) < 5% CV @ 5 µL <1% CV @ 100 µL
Software & PC Requirements	OS: Windows 11 (English Language), I3 Processor or equivalent (>2 GHz), 8 GB RAM, SSD 250 GB, monitor resolution ≥ 1280 x 1024 (HD)
External Dimensions (w x d x h)	622 x 640 x 660 mm
Dimensions Packed (w x d x h)	810 x 800 x 960 mm
Weight Packaged / Unpackaged	60 kg / 40 kg
Power Requirements	110-240 V
Power Consumption	< 200 W