

SOLE SOURCE JUSTIFICATION

PURCHASE AND SUPPLY OF THE qEV DXter



OVERVIEW

The qEV DXter supplied by Izon Science is the only commercially available robotic liquid handling system specifically designed for high-throughput extracellular vesicle isolation using qEV columns.

The qEV DXter utilises a robotic gantry system and advanced pipetting technology to process samples from 12 qEVoriginal columns or 24 qEVsingle columns in each run. Automated steps include sample identification via a barcode reader, column preparation, sample transfer, and the separation of purified nanoparticle isolate from buffer volume and the protein portion. The purified isolate is collected into a standard tissue culture plate, which will be either a 12-well or 24-well format.

The qEV DXter is intended for researchers who need to scale their nanoparticle isolation, including for the exploration and development of extracellular vesicle-based biomarkers.

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 μ L (depending on sample container)

Pumping system

- ▶ Syringe volume = 2.5 mL
- ▶ High-resolution syringe pump (5 steps per μ L)
- ▶ <5% CV @ 5 μ L
- ▶ <1% CV @ 100 μ L

Software and PC requirements

- ▶ OS: Windows 11 (English Language)
- ▶ I3 processor or equivalent (> 2 GHz), 8 GB RAM, SSD 250 GB
- ▶ Monitor resolution $\geq 1280 \times 1024$ (HD)

Manuals and support

- ▶ Supporting documentation and information about the latest firmware version will be made available at support.izon.com
- ▶ Further support can be accessed by raising a ticket at support.izon.com

Warranty

- ▶ A 24-month warranty is provided by the manufacturer

External dimensions (w x d x h)

- ▶ 622 x 640 x 660 mm

Power

- ▶ Requirements: 110–240 V
- ▶ Consumption: < 200 W

Shipment information

- ▶ Dimensions packed (w x d x h): 810 x 800 x 960 mm
- ▶ Weight packaged / unpackaged: 60 kg / 40 kg