

qViro

NANOPARTICLE ANALYSIS TECHNOLOGY FOR VIROLOGISTS

Offering a new approach to measurement and analysis of viral samples, qViro incorporates Izon's proprietary Scanning Ion Occlusion Sensing (SIOS) platform to bring this state of the art virus counting technology to researchers' labs.

- Counting and characterisation of individual virus particles
- Real-time measurement
- Cost-effective
- Robust & portable

qViro is a virus counting instrument which provides the capability to count and characterise individual virus particles in real time.

This highly portable, robust and flexible instrument offers a state of the art solution for fluid-borne virus analysis.

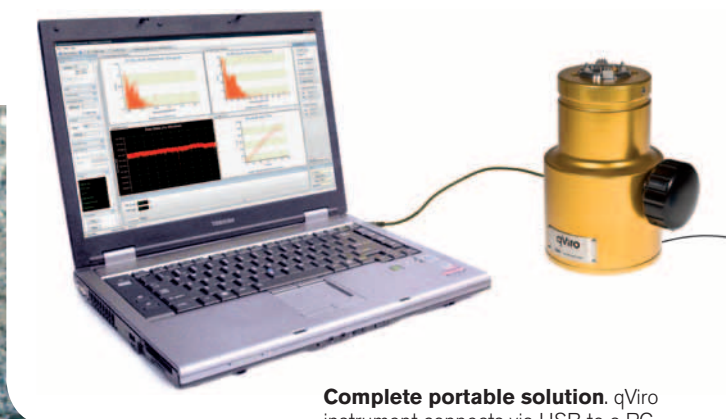
Using the sensitive manual control available in qViro, Izon's dynamically adjustable nanopores can be tuned for a range of viral particle sizes, giving researchers the capability for precision counting of viruses.

Data acquisition software allows the virus count to be viewed in real time. All recorded data is available to the user both with and without post processing allowing manipulation to suit individual user requirements.

Disposable elements of the instrument enable issues of contamination to be handled according to researchers' needs.

qViro has been designed to enable modularised upgrades such feedback control capability, pressurised control of flow and automated fluid control systems.





Complete portable solution. qViro instrument connects via USB to a PC (or laptop) for real-time data collection.

Applications

Concentration analysis

qViro (used alone or in conjunction with additional pressure control capability using the VPM) provides a state of the art solution for rapid quantitative measurement of viral titre in a sample.

Process monitoring

qViro can measure whole virus samples (active and inactive) as well as split virus samples¹ providing a confirmation and analysis tool for use in applications such as vaccine development.

Particle Sizing

qViro provides a single particle detection solution for accurate size distribution and volume fraction analysis of viral populations.

Environmental Samples

qViro can measure marine and fresh water viruses, including both purified and environmental samples.

Sample Types

Virus size: 50nm–2µm+ (diameter)

Particle composition: Any virus type possessing a net surface charge (positive or negative).

Examples to date: Purified virus samples including HIV, Influenza (including H1N1), Adenovirus, Lentivirus, Baculovirus, Dengue virus, Varacella Zoster Virus. HSV Marine and fresh water viruses, including both purified and environmental samples.

Concentration range: ~10⁵–10¹² particles per mL

Fluid composition: requires samples in an electrolyte solution. Measurement in environmental samples (for example sea water) is possible.

Technical Specifications

Footprint: Ø125mm

Height: 215mm **Weight:** 5kg

Data connection: USB

Power connection: Plug pack

For further enquiries please contact us at
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Izon is continually developing and improving its technology. For the latest information about new developments and upgrades please visit us at **www.izon.com**

¹ Within the size detection range of the instrument.