Portable Flow Cytometry

CX300 Optical Particle Analysis Instrument

For the detection of fluorescent-labelled particles in liquid across wide size ranges and particle densities.

The CX300 is a compact, high-sensitivity fluorescence detector used for research, tailored particles, dispersions formulation and quality control development in pharmaceutical processing.

Applications

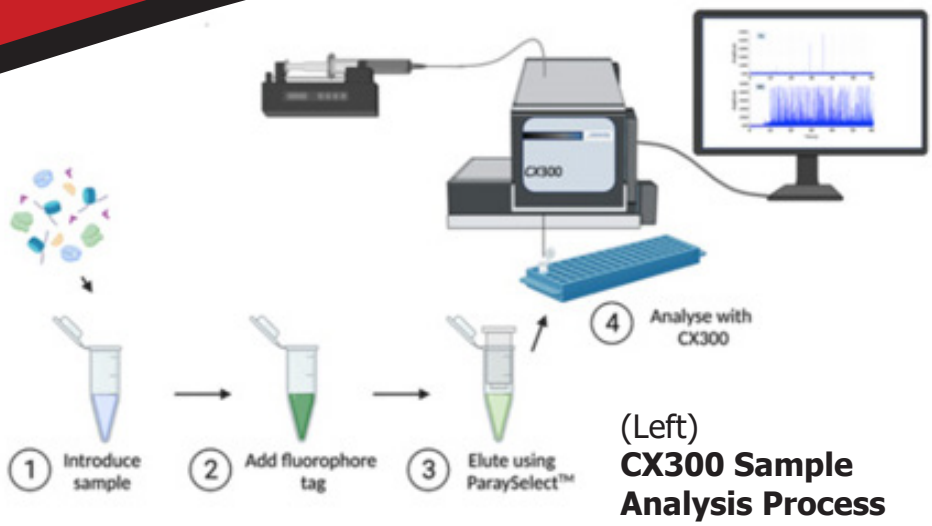
- **Viruses & Bacteria detection**
- **Haematology**
- **Cancer cells detection**
- **Aggregations, particle size & purity (QC)**
- **Vaccines**
- **Gene therapies**
- **Active substances**
- **Medicinal products**
- **Cosmetics**

Performance

- ✓ **Flexible fluidics**
- ✓ **Typical sample flow rate 20 µL/min (by syringe pump or similar)**
- ✓ **Picomolar sensitivity for fluorescein and AlexaFluor 488**
- ✓ **Data points every 0.2 ms**
- ✓ **Customisable to different fluorophores**
- ✓ **Small footprint, light-weight & transportable**
- ✓ **Intuitive software**
- ✓ **Affordable**

Nanoparticle Characterisation

- 10 nm to 20 µm
- 100 – 100,000 particles/mL
- Small sample volume 100 mL
- Rapid test (< 10 minutes)
- Easy-to-use



(Left)
CX300 Sample Analysis Process

+44(0)1954 232 776 | info@analytik.co.uk | **analytik.co.uk**

Optical Particle Analysis Instrument - CX300

paraytec
particle analysis technology

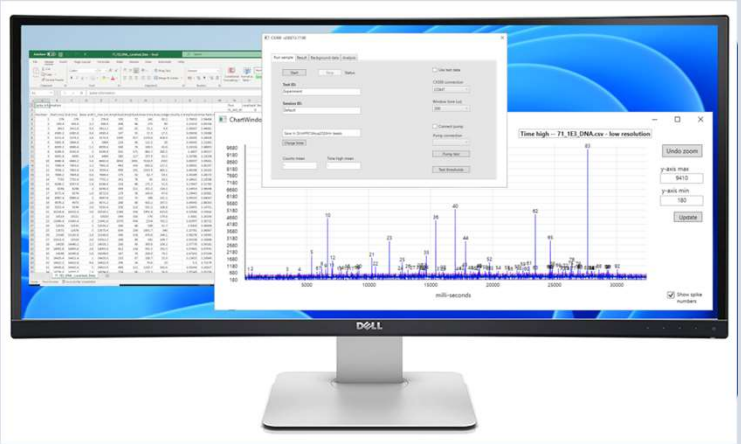
Technical

The CX300 is a compact, high-sensitivity fluorescence detector for particle counting and quantification in flow-through capillaries.

- Flow cytometry without complex fluidics
- Data points every 0.2 ms
- Picomolar sensitivity for fluorescein and AlexaFluor 488
- Fused silica capillary, 360 µm OD, 50 – 200 µm ID.
- Detection of fluorophore-labelled single particles 20 µm to 100 nm size
- Overall Size 225 mm x 145 mm x 170 mm
- Mass: 2.0 kg
- Power Requirement: 100-240 V, 50/60 Hz, 1.7 A

Wide application range:

- Detection of particles sized from nanometre to micrometre
- Customisable to different fluorophores
- Miniaturised, low-cost instrument
- Connectivity - USB Cable
- Operating Temperature 0 to +40C
- Operating Humidity
- Sensitive to condensation
- Simple, robust design



In the box:

- CX300 instrument
- Power Supply
- USB Cable
- Software

The software

The software enables instrument control and saves raw data in a standard CSV file format, allowing interrogation by other proprietary applications as well as built-in bespoke analysis algorithms, which generate parameters, including:

- Number of peaks, individually identifiable with timings, amplitudes and peak areas
- Sums of the amplitudes and the areas of the peaks
- The average width and standard deviation of peak width (to correlate with the expected size and velocity range for particles)

Custom-made functions can be added to suit specific experimental applications

CE UKCA

Registered in England No. 05341664

Manufactured by Paraytec, distributed in the UK and Ireland by **analytik**.

+44(0)1954 232 776 | info@analytik.co.uk | **analytik.co.uk**