

NovoCyte Quanteon | in a nutshell

A Quantum Leap In Benchtop Flow Cytometry



The Instrument.

- + 4 coherent® OBIS™ lasers: 405, 488, 551, 640 nm
- + 16 –25 colors + FSC/SSC; up to 27 parameters.
- + Fluorescence detection by 16 - 25 highly sensitive Silicon Photomultiplier SiPMs
- + Side Scatter (SSC) detected via an avalanche diode
- + Sensitivity 0.4 μm FSC, 0.1 μm SSC
- + Integrated Barcode Reader for plates
- + Automated system-start and shutdown including rinsing
- + Cell counting without beads. Highly precise volumetric counting using a piston pump. Continuous injection 5 μl –100 μl (30 μl void volume)
- + Continuous adjustment of sample flow diameter
- + Continuous adjustment of measuring speed 5 μl – 120 $\mu\text{l}/\text{min}$
- + Precise sheath fluid transport by valve less FMI metering pump (3D animation: <https://fluidmetering.com/how-it-works.html>)
- + Measuring speed up to 50,000 cells/sec
- + 24 Bit resolution, 7.2 log dynamic range
- + Width signal measured (not calculated) as ToF (time of flight)
- + 80 Mhz digitization
- + Save up to 10 million cells/sample
- + IQ/OQ performed by dedicated ACEA engineer.
- + Optional auto sampler for 40 FACS vials, 384-, 96-, 48-, 24- and deep-well plates if desired, instrument shuts down automatically after measuring, <20 mins for a 96-well plate and <80 mins for a 384-well plate

The Software.

- + Customize login with groups and user preferences
- + Dean Jett Fox (DJF) cell cycle platform
- + Watson Pragmatic cell cycle algorithm platform (currently part of NovoExpress)
- + Optional various vials / templates in same experiment
- + Automatic compensation; quick compensation using sliders
- + Intuitive adjustment of Bi Exponential axis scaling
- + Optional calculation of total cell count including dilution
- + Autosync of all plot axis on same channel if desired
- + Configurable reporting, export as PDF file
- + Configurable statistics, export as csv file
- + Cell Proliferation Modeling
- + Heat map data representation
- + FCS 3.0 and 3.1 export
- + File audit trail & System Log

Find out more now. **Get in touch.**

- + Request more information
 - + Schedule your product demo
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