

# NC-3000 Image Cytometry Data Analysis

– Nucleoview® NC-3000™ software

## Superior Data Presentation

Nucleoview® NC-3000™ software is highly intuitive software developed by ChemoMetec for automated image analysis. It is so easy to use that Nucleoview® NC-3000™ makes cytometry accessible to everyone eliminating the need for specialized personnel. The data is represented in histograms, scatter plots and result boxes, offering the user a clear overview of his results. The software displays an image of the cell sample gathered at 2x magnification offering the user a powerful way to visually inspect and qualify the cell sample. It also allows the user to revisit earlier results by reprocessing the image. The new PlotManager is used for analyzing the events acquired by the NucleoCounter® NC-3000™. Polygons, quadrants and markers can be drawn in the plots and are used for counting and gating of subpopulations.

## FlexiCyte™ with User Adaptable Protocols

By editing the user adaptable protocols, it is possible to control excitation times for selected light sources, include or exclude aggregated cells, and setting the minimum number of cells to be analyzed.

## Export Data to FCS Express 4

Nucleoview® NC-3000™ software is compatible with FCS Express™ 4 Image Cytometry from De Novo Software. The suite of flow cytometry analysis and reporting tools now power a new, full featured image cytometry environment. Get right to the heart of your data with fully interactive tools for reviewing images, dot plots and even singles cell galleries.

## Key Benefits Nucleoview® NC-3000™ software

- ✓ Easy to use
- ✓ Visual inspection of cells
- ✓ Data represented in histograms, scatter plots and result boxes
- ✓ Comparison by overlay of histograms
- ✓ Storing of gates and marker lines
- ✓ PlotManager for even better data presentation
- ✓ FlexiCyte™ module with user adaptable protocols
- ✓ De Novo Software FCS Express™ 4 Image Cytometry compatible

**FlexiCyte** Also available with user adaptable protocols with up to three channels **NEW!**



## The NucleoCounter® NC-3000™ - Next generation cell analysis



ADAPTABLE ASSAYS



FIXED ASSAYS



HIGH SPEED CELL COUNT



FAST ANALYSIS



VISUAL INSPECTION



NO RINSING



NO CLOGGING



NO CALIBRATION



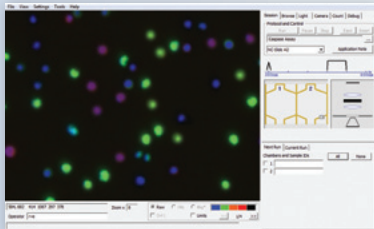
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LEARN MORE

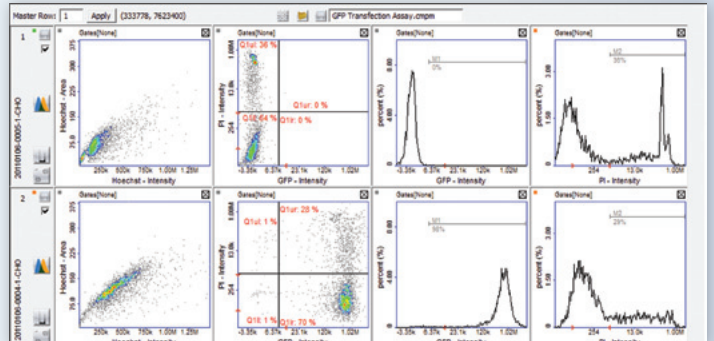
# NucleoView® NC-3000 Software™

Nucleoview® NC-3000™ software is highly intuitive software developed by ChemoMetec for automated image analysis. It is so easy to use that Nucleoview® NC-3000™ makes cytometry accessible to everyone eliminating the need for specialized personnel. Data is represented in histograms, scatter plots and result boxes, offering the user a clear overview of the results in the PlotManager. The FlexiCyte™ module enables the user to perform user adaptable assays with 3 channels. All data can be exported directly into FCS Express 4 Image Cytometry from De Novo Software.



- Easy to use user interface
- Visual inspection of cells
- 1-click access to application note
- Context Sensitive Help (F1)
- Export in FCS/ACS formats

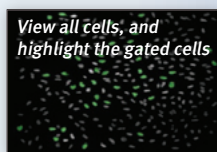
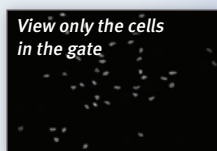
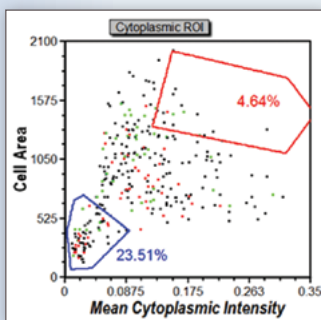
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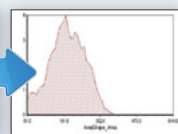
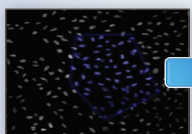
## FCS Express™ 4 Image Cytometry



Get right to the heart of your data with interactive tools



Gates work seamlessly with images and plots



Draw gates on images, and show dot plots and histograms of gated cells.

### Cell galleries isolate interesting cell populations

Cell #	New Gate	Gates	rawDNA	rawGFP
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				

Compare sub-population of cells side-by-side in a gallery with multi-parametric values.

See which gates cells reside in.

Create new gates using cell galleries, and view only the images of cells residing in your new gate.



For features, pricing and your free 30-day evaluation of FCS Express 4, please visit [www.denovosoftware.com](http://www.denovosoftware.com)

(Academic pricing available)

FCS Express 4 is a Registered Trademark of De Novo Software

## FlexiCyte™

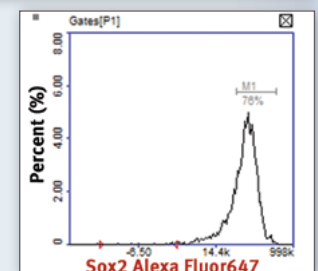
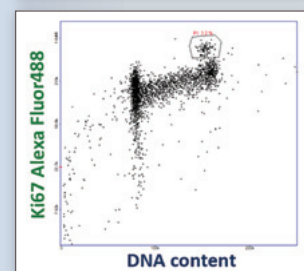


Create user adaptable protocols with 3 channels

The Nucleoview® NC-3000™ FlexiCyte™ module enables the user to perform advanced cell analyses of a broad range of mammalian cells. The usage of protocols that can be modified by the user (so-called "User Adaptable Protocols").

After image acquisition cell data are presented in the PlotManager as either scatter plots or histograms or both. In the plot manager data can be further processed and analyzed, and facilitates e.g. counting, gating and spectral compensation. Cells in selected gates can be visually inspected in the image.

Light source	Blue Channel	Green Channel	Orange Channel	Red Channel
Emission filter	Ex365 Em470/55	Ex475 Em560/35	Ex530 Em75/75	Ex630 Em740/60
Non-fixed cells	Hoechst-33342	Biomarker 1	Biomarker 2	Biomarker 3
Fixed cells	DAPI	Biomarker 1	Biomarker 2	Biomarker 3
Recommended fluorophores	NA	e.g. AlexaFluor488, Atto488, Dyl.igh488, FluorProbes488, CF488a	e.g. AlexaFluor568, Cy3, atto565, Dyl.igh549, FluorProbes547H, CF568	e.g. AlexaFluor647, Cy5, atto647N, Dyl.igh649, FluorProbes647H, CF647
Classical fluorophores	NA	e.g. FITC, PE	e.g. PE, TRITC	e.g. APC
Nucleic acid stains	NA	e.g. AO	e.g. PI, 7-AAD, EIBr	e.g. Draq5, Draq7, NucStar-ID Red
Fluorescent proteins	NA	GFP and green and yellow variants	DsRed, BFP and orange/red variants	FlexiCyte



All data can be exported directly into FCS Express 4 Image Cytometry from De Novo Software.

For more information about FlexiCyte™ for the NC-3000, please visit [www.chemometec.com/flexicyte](http://www.chemometec.com/flexicyte)



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