



Advanced IFA Analyzer.
Automation Engineered in a Compact Design.



Product Highlights

- Automated IFA Benchtop Analyzer for Autoimmune Diagnostics
- Evaluation of IFA Slides by AI based Software
- ANA, ANCA, CLIFT, EmA, Tissue Sections and CytoBead® Technology

YOUR RELIABLE PARTNER IN AUTOIMMUNE DIAGNOSTICS

30 Years of Experience, 150 Partners in more than 100 Countries

akiron® NEO

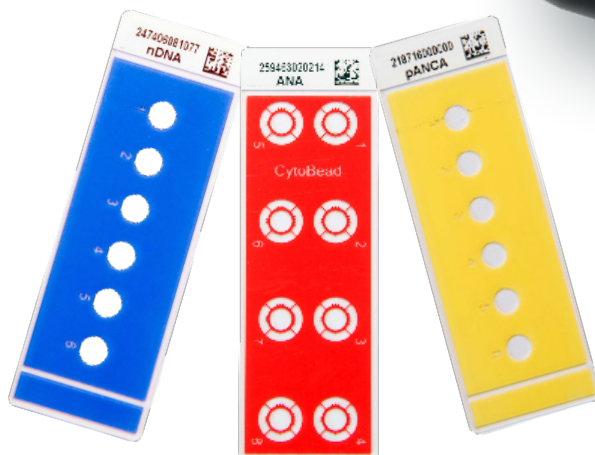
IFA Analyzer for Autoimmune Diagnostics

akiron® NEO is a compact, automated benchtop IFA analyzer. It is designed for digital imaging of stained immunofluorescence slides without darkroom to support diagnosis of autoimmune diseases.

The **akiron® NEO** enables objective positive/negative classification of cell-based immunofluorescence assays (ANA, ANCA, CLIFT) in approximately 35 seconds. At the same time, the software, based on artificial intelligence (AI), delivers automated pattern recognition, for ANA (up to 14 ICAP patterns) and ANCA (up to 5 patterns), and precise end-point titer estimation, ensuring consistent and standardized interpretation.

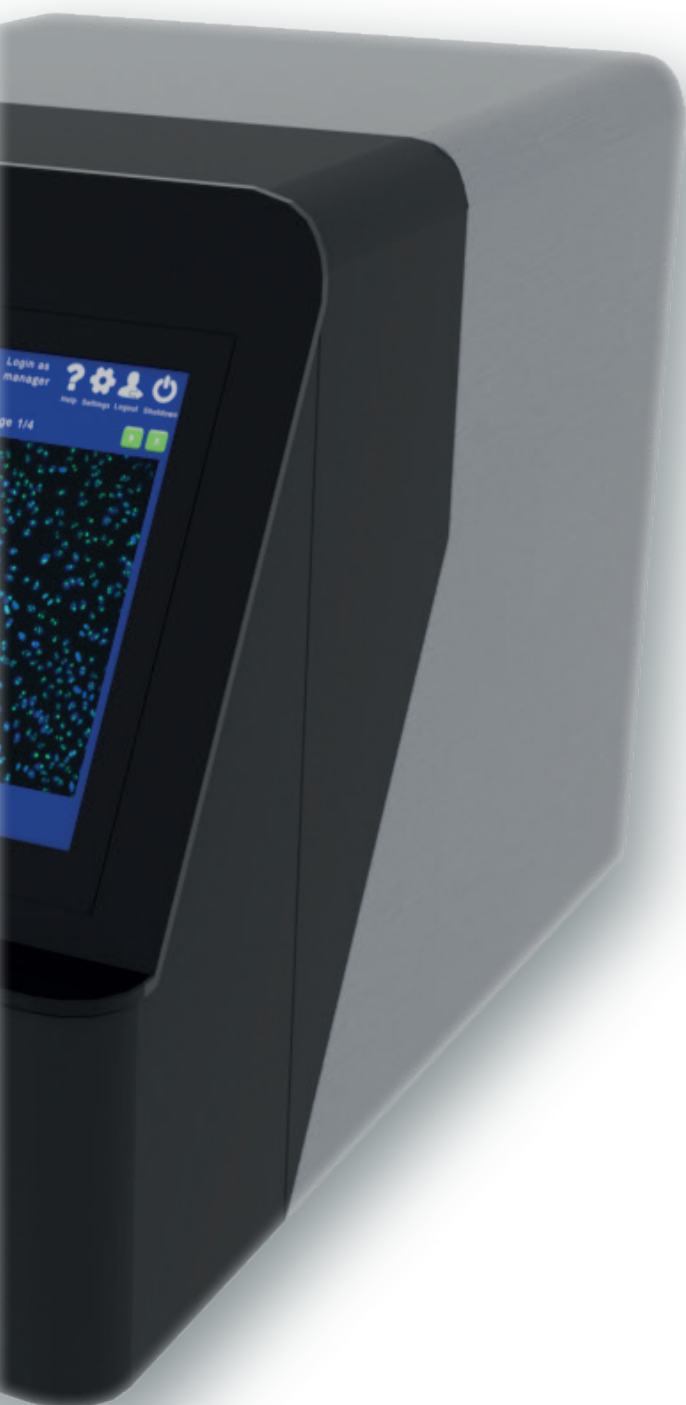
Validated assays for **akiron® NEO** enable standardized evaluation of a wide range of immunofluorescence tests, including antibody detection against HEp-2 cells (ANA), granulocytes (ANCA), CLIFT (dsDNA), multiple tissue substrates, as well as quantification of antigen-specific antibodies using CytoBead® technology.

The powerful easy-to-use **akiron® NEO** with a small footprint is an essential tool for all routine diagnostic services, e.g. for rheumatology and gastroenterology.



akiron® NEO

Specifications



Optics

Construction	Reflecting microscope
Objectives	20x / 0.45
Light sources	3 high power LEDs
Fluorescence filter	Blue (DAPI), green (FITC), red (Cy5)
Camera	2.3 MP, 1/1.2" CMOS

Hardware

Focussing	Adaptive autofocus 3 mm range, moving lens, 1 μ m resolution
Sample stage	Motorized 80 mm x 100 mm

Throughput

Samples	24
Slides	2
Time Period	35 seconds per sample ¹

Display

Touch screen	10" (16:9)
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Connections

Ethernet / LIS	1 x
USB	4 x
HDMI	1 x

Dimensions

Size (H x W x D)	320 mm x 280 mm x 460 mm
Weight	15 kg

Power

Requirements	12 V DC, 8.5 A
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akiron® NEO

Advanced IFA Analyzer.

Automation Engineered in a Compact Design.

- ANA / ANCA pattern recognition and intensity evaluation of immunofluorescence by AI-based software
- ANA / ANCA titer determination from only one standard sample dilution
- CLIFT for determination of antibodies against dsDNA
- High-quality imaging of cell- (ANA / ANCA / CLIFT) and tissue-based assays (e.g. EmA)
- Quantification of antibody activities in U/mL or UI/mL using the CytoBead® technology
- Results in 35 seconds¹
- Touch screen monitor
- User-friendly multilanguage software
- Archiving of images and results for quality assured data management
- Export of all relevant results according to the ICAP suggestions², in pdf- or xls-file format
- Bidirectional LIS Connectivity

Product Information

akiron® NEO



¹ For ANA, ANCA and CLIFT.

² von Mühlen, *et al.* (2021). How to report the antinuclear antibodies (anti-cell antibodies) test on HEp-2 cells: guidelines from the ICAP initiative.

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Order Information

akiron® NEO

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