

Technology that counts



NucleoCounter[®] NC-3000[™]

Instrument User Guide

Product No. 991-3001

Revision 1.12



NucleoCounter[®] NC-3000[™]

Advanced Cell Analyzer

Product No. 991-3001 (English)

Revision 1.12

12aug2025



ChemoMetec A/S

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Caution!

This equipment must be operated as described in this User's Guide and documents referred to herein. Please read the entire guide and referred documents before attempting to use this unit. Please pay attention to that gloves or protective clothing are not worn on the illustrations/pictures shown in this User's Guide. However, ChemoMetec A/S does recommend that the user wear suitable protective clothing etc.

Contacting support

Technical information including product literature, answers to questions regarding the operation of the NucleoCounter® NC-3000™ not covered in this document and referred documents is available through the following:

- For e-mail support, send questions to NucleoCounter® NC-3000™ Technical Support on the address Support@chemometec.com
- Check out the FAQ section under support at www.chemometec.com
- To speak with a Technical Support Specialist, call (+45) 48 13 10 20.

Please note the NucleoCounter® NC-3000™ serial number and have it available when contacting ChemoMetec A/S for support. The NucleoCounter® NC-3000™ serial number is found on the label affixed to the rear of the instrument. The version number of the NucleoView NC-3000™ software shall also be noted, this can be found on the Help – About menu item in the NucleoView NC-3000™ software.

Sales and ordering information

For sales assistance with NucleoCounter® NC-3000™ or the NucleoView NC-3000™ software, to place an order for a NucleoCounter® NC-3000™ or consumables, call (+45) 48 13 10 20, fax (+45) 48 13 10 21, or send e-mail to Sales@chemometec.com

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ChemoMetec A/S reserves the right to make changes in the product design without reservation and without notification to its users.

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Declaration of Conformity (CE) - *EXAMPLE*

Name of product: NucleoCounter® NC-3000™

Type: Advanced Cell Analyzer

Other identifying data: Product number 900-3001

We declare under our sole responsibility that the products, to which this declaration relates, are in conformity with the Council Directives on the approximation of the laws of the EEC Member States relating to the following:

Directives Electromagnetic Compatibility (EMC) Directive 2014/30/EU
 Restriction of the use of certain hazardous substances (RoHS) Directive 2011/65/EU
 Low Voltage Directive (LVD) 2014/35/EU
 Machinery Directive (MD) 2006/42/EC

Harmonized Standards

EMC: EN 61326-1:2013 Electrical equipment for measurement, control, and laboratory use – EMC requirements – part 1: General requirements
 EN 61000-3-2:2014 Limits for harmonic current emissions
 EN 61000-3-3:2013 Limitation of voltage changes, voltage fluctuations and flicker

RoHS: EN 63000:2018 Technical Documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

LVD: EN 61010-1:2010+A1:2019 Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
 EN 61010-1-081 Particular requirements for automatic or semi-automatic laboratory equipment for analysis and other purposes

MD: EN 12100:2010 Safety of machinery; risk assessment and risk reduction
 EN 13849-1:2015 Safety-related parts of control systems – part 1: General principles for design

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 i) this device may not cause harmful interference; and ii) this device must accept any interference received, including interference that may cause undesired operation.

Date & Signature will appear on the instrument's actual Declaration of Conformity statement, accompanying each new instrument order.

Name and address of manufacturer:
 ChemoMetec A/S
 Gydevang 43
 DK-3450 Allerød
 DENMARK

Date: 2022-08-25

Declaration of Conformity (UKCA) - *EXAMPLE*

Name of product: NucleoCounter® NC-3000™
Type: Advanced Cell Analyzer
Other identifying data: Product number 900-3001

We declare under our sole responsibility that the products, to which this declaration relates, are in conformity with the relevant legislation of United Kingdom:

Regulations: Electromagnetic Compatibility Regulations 2016
The Restriction of Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
The Electrical Equipment (Safety) Regulations 2016
The Supply of Machinery (Safety) Regulations 2008

Designated Standards

EMC: BS EN 61326-1:2013 Electrical equipment for measurement, control, and laboratory use – EMC requirements - General requirements
BS EN 61000-3-2:2014 Limits for harmonic current emissions
BS EN 61000-3-3:2013 Limitation of voltage changes, voltage fluctuations and flicker

RoHS: BS EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

LV: BS EN 61010-1:2010+A1:2019 Safety requirements for electrical equipment for measurement, control, and laboratory use – General requirements
BS EN 61010-1-081 Particular requirements for automatic or semiautomatic laboratory equipment for analysis and other purposes

MR: BS EN 12100:2010 Safety of machinery; risk assessment and risk reduction
BS EN ISO 13849-1:2015 Safety-related parts of control systems – General principles for design

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Name and address of manufacturer:
ChemoMetec A/S
Gydevang 43
DK-3450 Allerød
DENMARK

Date: 2022-08-25

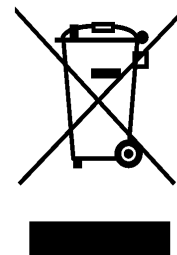
WEEE directive information – Europe only

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment) - Europe only

This marking shown on the product or its literature, indicates that it should not be disposed together with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

This information is listed in “Appendix B: WEEE directive information in more EU languages”.



Introduction and intended use

The NucleoCounter® NC-3000™ is a compact cell-analyzer intended to be used for advanced cell analysis within the life-science and pharmaceutical markets. The NucleoCounter® NC-3000™ system is intended for research use only, not for diagnostic use. The NucleoCounter® NC-3000™ uses different types of disposable Cassettes from ChemoMetec A/S and special designed slides with two or eight chambers. This will cover an analysis volume from 0.8µl to 16µl.

The NucleoCounter® NC-3000™ is a highly advanced cell analyzer based on fluorescence microscopy using CCD camera technology with low magnification and advanced image analysis. Numerous properties of the individual cells can be analyzed with the eight integrated light sources (six of them illuminating from 365 nm to 625 nm and two white light sources) and with nine emission filters. Spatial position is maintained from filter to filter enabling direct comparison of the different parameters detected or quantified on each individual cell. The low magnification (2x) guarantees a high analysis volume and thus ensures a high statistical performance.

Specially designed sample illumination eliminates the risk of bleaching of adjacent sample material and therefore several images can be exposed in the same sample window. Since no tubes, valves, hoses etc. are present the instrument is virtually service and maintenance free.

The NucleoCounter® NC-3000™ part number at ChemoMetec A/S is 900-3001.

Warnings and precautions

Whenever the ⚠ symbol appears on the NucleoCounter® NC-3000™ instrument, it indicates that the manual must be consulted for precautions and warnings.

Power and cables

Use the shielded USB cable supplied with the NucleoCounter® NC-3000™ to ensure that appropriate EMI classification is maintained for the intended environment.

⚠ The USB interface connector of the NucleoCounter® NC-3000™ must only be connected to SELV circuits. External computing devices connected to the USB interface connector of the NucleoCounter® NC-3000™ has to comply with the standards, UL 1950 and IEC/EN 60950.

Table 1. Description of the NucleoCounter® USB interface connector

Pin no.	Name	Maximum Voltage level ¹
1	+5V	+5 VDC
2	D-	+3.5 VDC
3	D+	+3.5 VDC
4	DGND	0 VDC
Metal enclosure	Shield (connected to DGND)	0 VDC

NucleoCounter® NC-3000™ is powered by an external 24VDC power supply. For safe use, please follow the instructions for connecting the power supply.

⚠ The NucleoCounter® NC-3000™ shall only be used with an external power supply purchased at ChemoMetec A/S.

⚠ The detachable DC power supply cord set and appliance inlet of the external power supply are considered as the disconnecting device.

⚠ The mains supply cord and plug of the external power supply shall comply with any national regulations.

¹ In normal operation mode (refers to Pin no. 4)

 The user should be made aware that if the NucleoCounter® NC-3000™ and the external power supply is used in a manner not specified by the manufacturer, the protection provided by the NucleoCounter® NC-3000™ and the external power supply may be impaired.

Electromagnetic interference

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Cassettes, Slides, Reagents, Solutions and Dispensers

With respect to use and handling of Cassettes, slides, reagents, solutions and dispensers, please refer to appropriate package inserts for these items.

Caution! When using a bottle-top dispenser: To protect against accidental splashes, protective clothing, eye protection and gloves must be worn when using potentially hazardous liquids.

General

Any biological specimen should be handled, as if it is capable of transmitting infectious disease and disposed of with proper precautions according to federal, state and local regulations.

Avoid specimen contact with skin or mucous membranes.

Never pipette by mouth.

Avoid cross-contamination of the samples when preparing the samples. This can compromise the quality of the results.

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1 Inspection, Unpacking and Installation of Equipment

Upon receiving the order from ChemoMetec A/S, the box or boxes should be carefully inspected for any damage that may have occurred during shipping. Any damage must be reported to the carrier and to ChemoMetec A/S immediately.

Unpack the order, saving the packing materials for possible later use.

Verify that the ChemoMetec packing list received refers to the correct and ordered materials, and that nothing is missing.

If any part of the order was damaged during shipping or is missing, or fails to operate, please contact ChemoMetec A/S.

1.1 Operation of the NucleoCounter® NC-3000™

Once the IQ and the OQ are successfully completed by a ChemoMetec-authorized technician, operation with the NucleoCounter® NC-3000™ can begin.

2 Advanced cell analysis with the NucleoCounter® NC-3000™

The NucleoCounter® NC-3000™ is a multicolor fluorescent cell-analyzing instrument. The NucleoCounter® has the advantage of short training time before the user can run highly advanced cell analysis protocols. The instrument itself is calibration free. The individual calibration parameter for a sample media will be read/used by the instrument during analysis.

The complete list of applications are shown in the document; Application list for the NucleoCounter® NC-3000™. This covers applications like:

- Viability and Cell Count Assay
- Vitality Assay
- Mitochondrial Potential Assay
- Cell Cycle Assay
- DNA Fragmentation Assay
- GFP Transfection Efficiency Assay

New applications will be developed on an on-going basis and the updated list can be seen at the web site: www.chemometec.com

2.1 The NucleoCounter® NC-3000™ instrument

The NucleoCounter® NC-3000™ is shown in the figure below.

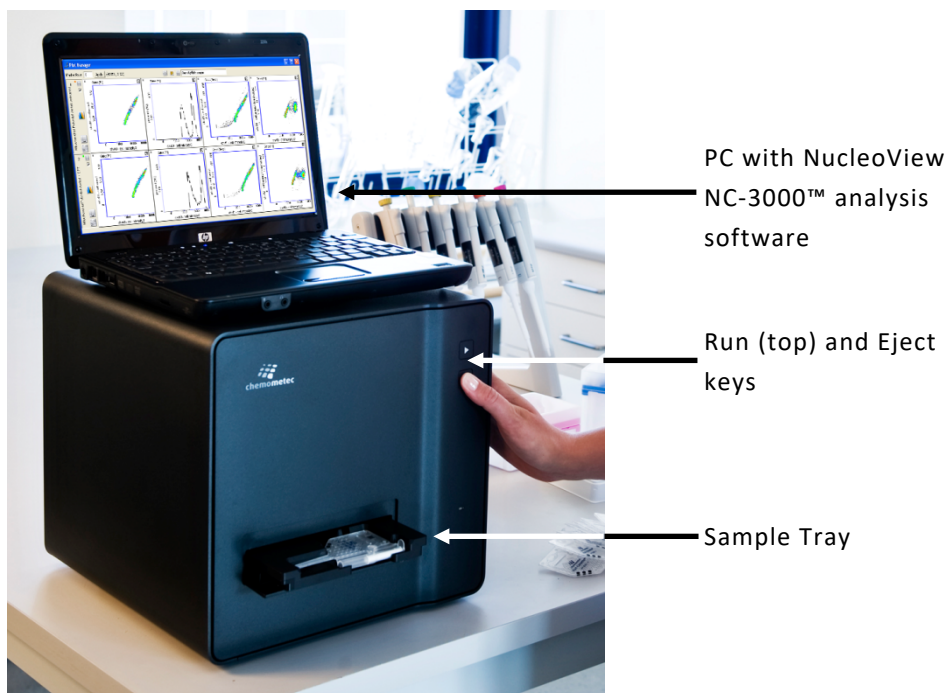


Figure 1 NucleoCounter® NC-3000™

2.1.1 Fluorescence microscope

The NucleoCounter® NC-3000™ is a fluorescent microscope with a magnification of approximately 2x. In the basic configuration it is equipped with eight light sources and in the future it can be upgraded to a total of 14 light sources. It has nine emission filters, and it can in the future be upgraded to a total of 20. All light sources and filters can be paired in any possible combination, enabling extremely flexible analysis.

Two basic types of sample medias can be placed in the sample tray:

Cassette type	Like: PI-Cassette™ and Via1-Cassette™
Slide type	Like: NC-Slide™ A2 and NC-Slide™ A8

A number of different analyses can be run on the NucleoCounter® NC-3000™. All of them are documented in application notes describing the protocol to be used for the analysis. The basis of all these protocols is to provide the operator with a set-up to perform an

extremely advanced analysis in a very simple manner so that all personnel can be trained in a very short time.

The NucleoCounter® NC-3000™ is controlled by the NucleoView NC-3000™ software, which can be installed on a PC with Windows 10 operating system and USB 3.0 or 2.0 ports. See the Help Menu in the NucleoView NC-3000™ software and the “Install_Guide.html” file on the supplied USB Flash drive for the list of PC Specifications.

2.1.2 The sample tray

The sample tray holds the Cassette and the Slide during analysis in the instrument. There are two optical windows in the tray. Please ensure that these windows are kept clean at all times. Refer to section “7.1 Cleaning” for guidelines on how to clean the two windows if required. The sample tray can be moved during analysis in both X and Y horizontal directions and hereby images of several sample volumes can be exposed. This makes the NucleoCounter® NC-3000™ capable of analyzing as much as 16 µl from one sample.

On the front of the NucleoCounter® NC-3000™ there are two buttons. One is for insertion and ejection of the sample tray, the other is used to repeat the last performed type of analysis on the instrument. In this way it is easy to perform a number of identical analyses in a routine manner.

On the rear of the instrument a USB data connection (rev 2.0 or higher), a DC Power Connection and a DC fuse holder can be found. Please take care of these areas and keep them free of liquids and foreign objects at all times.

2.2 SAMPLE MEDIA

2.2.1 The Cassettes



Figure 2. The Via1-Cassette™. The fluorescent dyes AO (acridine orange) and DAPI (4',6-diamidino-2-phenylindole) are immobilized in the flow system.

2.2.2 Loading the Cassette

The Cassette is loaded by fully immersing the tip of the Cassette into the sample and then gently pressing the white piston, which creates a partial vacuum in the flow system. This results in the sample being loaded into the cassette. Approximately 60 µl is loaded into the cassette.



Figure 3. Loading of the Cassette

The Cassettes to be used with NucleoCounter® NC-3000™ are highly specialized devices. The Via1-Cassette™ contains the fluorescent dyes AO (acridine orange) and DAPI (4',6-diamidino-2-phenylindole) which are immobilized inside the flow channels of the disposable Cassette. When the Cassette has been loaded with approximately 60 µl of sample the dyes are dissolved and mixed with the sample, staining the cells.

After being placed in the NucleoCounter® NC-3000™, the stained cells are automatically transferred to the measurement chamber, where the fluorescent image is recorded. In a Cassette the measurement volume can be as large as 3.2 µl.

After analysis the sample and dyes are contained inside the Cassette, which can be safely discarded. This offers unique and safe sample handling and disposal.

As the Via1-Cassette™ contains the entire flow system as well as measurement chamber, neither cleaning nor maintenance of the NucleoCounter® NC-3000™ instrument itself is necessary.

2.2.3 Sample volume

During production, the precise depth of the measurement chamber of every cassette is measured to create a calibration parameter. The calibration parameter is used by the instrument during analysis to determine the precise volume analyzed by multiplying the imaged area with the depth of the measurement area. The imaged area is dependent only on the optics of the instrument. Therefore, the area is constant for each instrument.

The calibration parameter is printed on every single cassette as a dot code describing measured depth of the measurement chamber of the cassette.

2.2.4 *Cassette handling*

The image analysis method of the NucleoView NC-3000™ offers considerable stability, when eliminating non-cellular objects from the image, including scratches and smears on the Cassette windows, and thus producing valid results even under challenging conditions. Nevertheless, the quality of the cell count is best assured by keeping the windows of the Cassette as clean as possible.

Caution! In order to avoid contaminating the measurement window it is important not to touch the window when handling the Cassettes. Be careful when cleaning the surface of the Cassette since the plastic material of the Cassette can be scratched. In section 5.2 Inserting and removing the Cassette, see how to place and remove the Cassette from the sample tray.

2.2.5 *The slides*

For assays requiring other reagents, glass slides are available in two-chamber and eight-chamber versions. The maximum analysis volume per each chamber is 16 µl for a two-chamber slide and 5.6 µl for an eight-chamber slide.

Regular pipettes can be used to load the sample to be analyzed. After analysis, the slide must be handled as biological waste. In section 5.3 Inserting and removing the slide, see how to place and remove the slide from the sample tray.

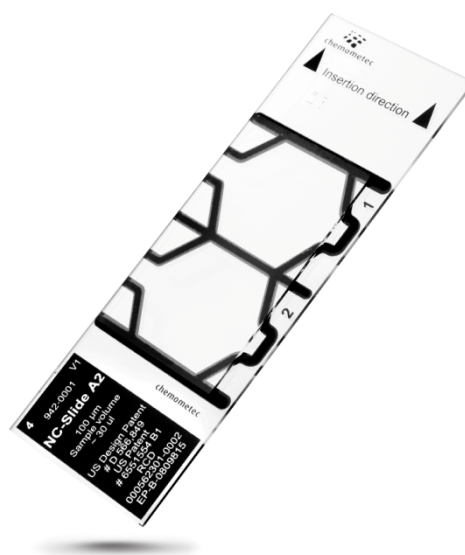


Figure 4. A two-chamber slide - NC-Slide™ A2. Note the arrows showing the insertion direction

3 Keys and PC control

3.1 Interactive Controls



Figure 5. The front of the NucleoCounter® NC-3000™

The figure above shows the front of the NucleoCounter® NC-3000™. Three operational areas are present:

- Lid covering the sample tray
- Run and Eject Keys
- Tri-color status indicator

The sample tray is located under the lid. When the sample tray is ejected, either a Cassette or a Slide can be placed here. The sample tray will automatically open the lid. A spring will ensure that the lid closes again when the sample tray is inserted.

Caution! No parts or materials must be placed in front of the lid as the sample tray can cause these to tip during ejection.

Once a protocol has been selected in the software (see detailed description in the NucleoView NC-3000™ Software User's Guide), an analysis using this protocol can be performed by pressing the Run key.

The tri-color indicator shows the status of the instrument:

- Green - the NucleoCounter® NC-3000™ is ready for the next operation.
- Red - the NucleoCounter® NC-3000™ is busy.
- Orange - the NucleoCounter® NC-3000™ is not in communication with the NucleoView NC-3000™ software.

4 Start-up

4.1 Power on, power off

At the rear of the instrument, there are two sockets and one fuse holder (Figure 6). When seen from the rear, the USB 2.0 port is to the left (Figure 7) and the fuse holder and DC Power Plug is at the right (Figure 7). The NucleoCounter® NC-3000™ is powered by a 24VDC external power supply. To power the NucleoCounter®, connect the DC power cable to the DC Power Plug (see Figure 6), and plug the main power cable into a wall outlet.



Figure 6. Rear side of the NucleoCounter® NC-3000™

The NucleoCounter® NC-3000™ can now be turned on once the mains outlet is on. To power it off, either remove the DC Power Plug or turn the mains outlet off.

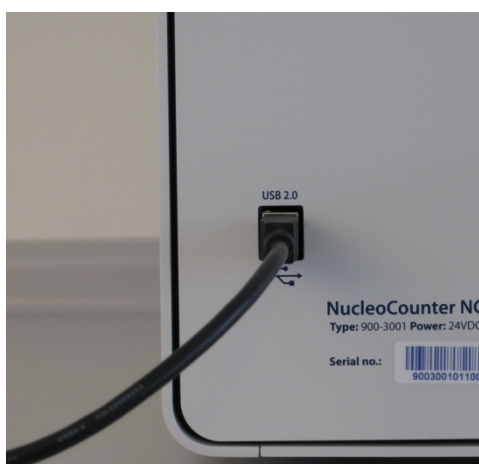


Figure 7. USB 2.0



Figure 8. DC Power Plug

4.1.1 Starting up the instrument

Once the NucleoView NC-3000™ program is started, the actuators of the instrument perform a homing procedure to assure correct positioning of the different parts.

After this initialization, the status indicator on the front will turn green and the NucleoCounter® NC-3000™ is ready for operation.

5 Operation of the NucleoCounter® NC-3000™

5.1 Ready mode

Once the NucleoCounter® NC-3000™ and the NucleoView NC-3000™ are ready, analysis can begin. In the NucleoView NC-3000™ software main window, use the browse menu to select the protocol to be performed. Once selected, the buttons on the front of the instrument (see Figure 1) or the corresponding icons of the main window can be used to eject or insert the sample tray and run the analysis.

5.2 Inserting and removing the Cassette

To insert the Cassette:

1. Eject the sample tray.
2. Hold the Cassette on the wide part of the cylinder.
3. Place the Cassette onto the sample tray.
4. Insert the sample tray and/or Run² the analysis.

After analysis, remove the Cassette from the sample tray and dispose as biological waste according to national or regional laws or regulations, depending on the nature of its contents.

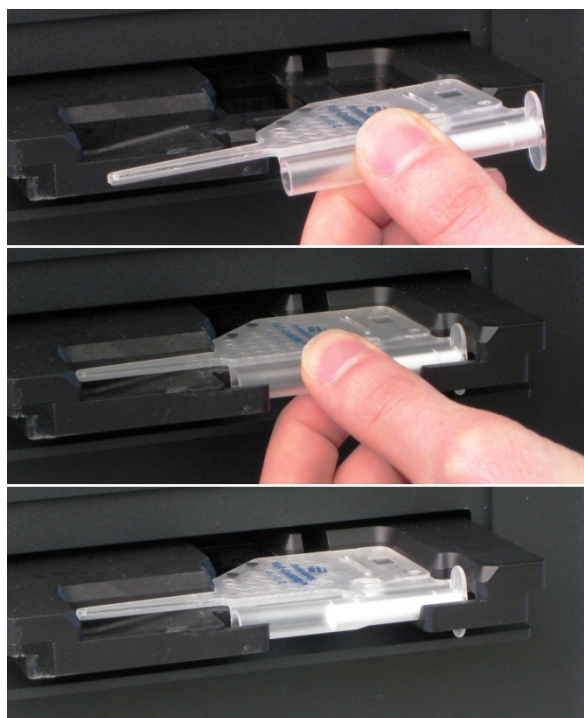


Figure 9. Illustration of how to hold and place the Cassette on the sample tray

² The Run operation closes the sample tray.

5.2.1 Actuator movements

When a Cassette is analyzed after Run is pressed, the piston actuator will move the piston down through the Cassette cylinder. In this way the sample material is transported to the Cassette measurement chamber. The form and dimensions of the flow channels facilitate effective mixing of the sample. Sensors monitor sample flow. When the sample has been correctly loaded into the measurement chamber, the movement of the piston is stopped.

5.3 Inserting and removing the slide

To insert the Slide:

1. Eject the sample tray.
2. Hold the slide at the end opposite to the arrows.
3. Place the slide onto the sample tray, by giving it a gentle push with the thumb.
4. Insert the sample tray and/or Run³ the analysis.

After analysis, remove the Slide from the sample tray and dispose as biological waste according to national or regional laws or regulations, depending on the nature of its contents.

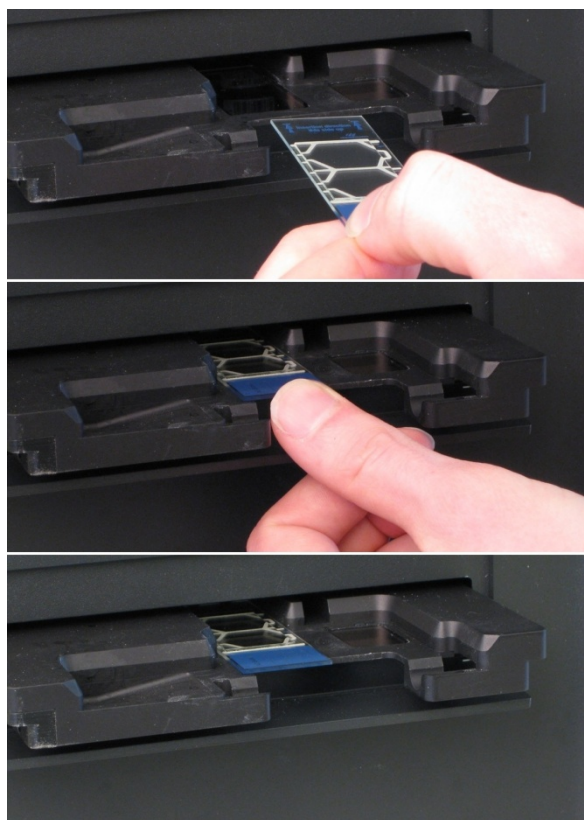


Figure 10. Illustration of how to hold and place the slide on the sample tray

³ The Run operation closes the sample tray.

5.4 Result presentation

Depending on the type of analysis performed, the results will be presented on the PC within a few seconds and the fluorescent image(s) will be stored on the hard disk. Typical process time is from 20 seconds to two minutes for multi-image and multi-color analysis.

5.5 Protection of the optical system

The lid covers the sample tray. This lid is designed to protect the area from dust and other potential contaminants, and to keep external light from interfering with the fluorescent image recording. The lid is spring loaded so it will automatically close during insertion of the sample tray.

Unless inserting or ejecting a sample media or cleaning the sample tray, the lid should always be closed to protect the optical system of the NucleoCounter® NC-3000™. After operation, shutdown the NucleoView NC-3000™ software first, so the sample tray will be inserted in case it has been left ejected. Then the NucleoCounter® NC-3000™ can be turned off by removing the DC power plug or disconnecting from the mains.

6 NucleoView NC-3000™

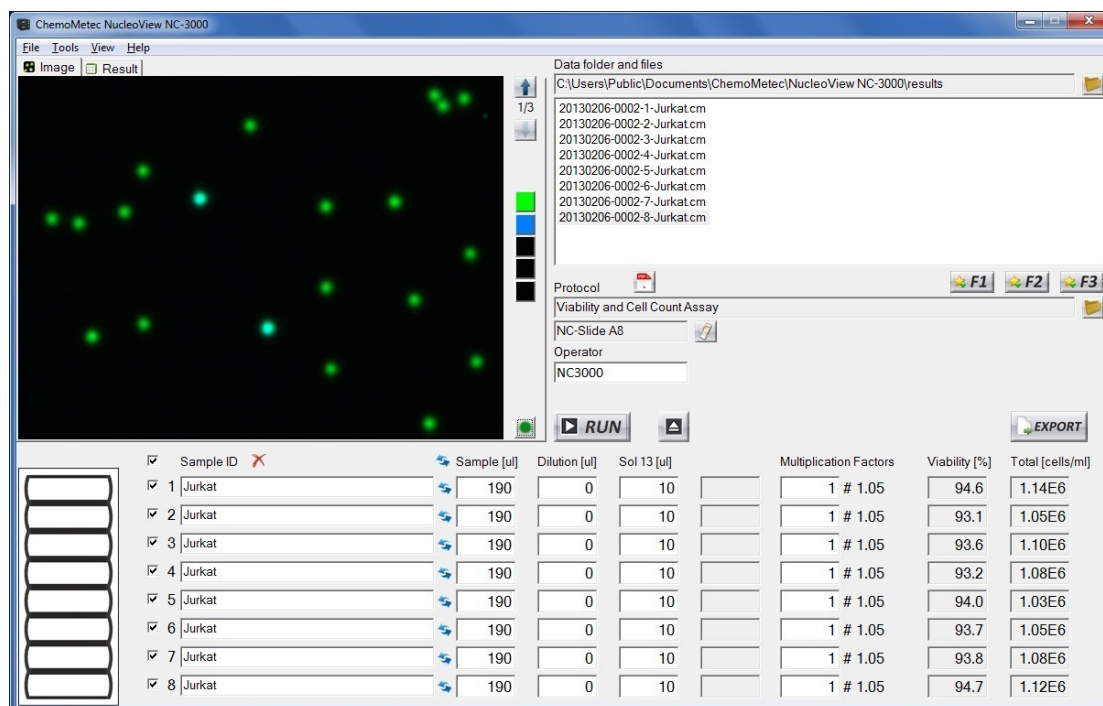


Figure 11. NucleoView™ NC-3000™ software with a typical result

The NucleoView™ NC-3000™ software controls the NucleoCounter® NC-3000™ instrument and analyses the images recorded.

Several options for data presentation are available in the NucleoView™ NC-3000™ software, such as histograms, scatter plots etc. (see Figure 12).

A USB Flash drive supplied with the instrument contains the NucleoView™ NC-3000™ software, drivers, instrument specifications, the NucleoView™ NC-3000™ Software User's Guide etc. Run the file "Install Guide" and follow the directions in the Software User's Guide. Once the program is installed, you can open the Software User's Guide from the Help menu.

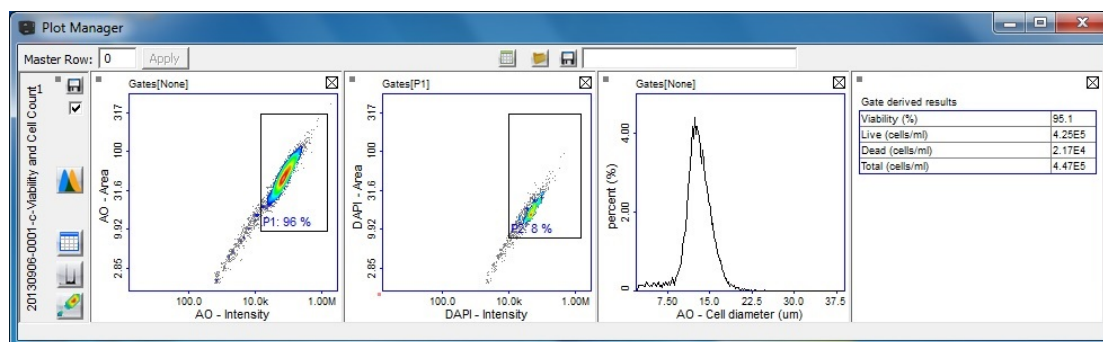


Figure 12 Results presented in the Plot Manager

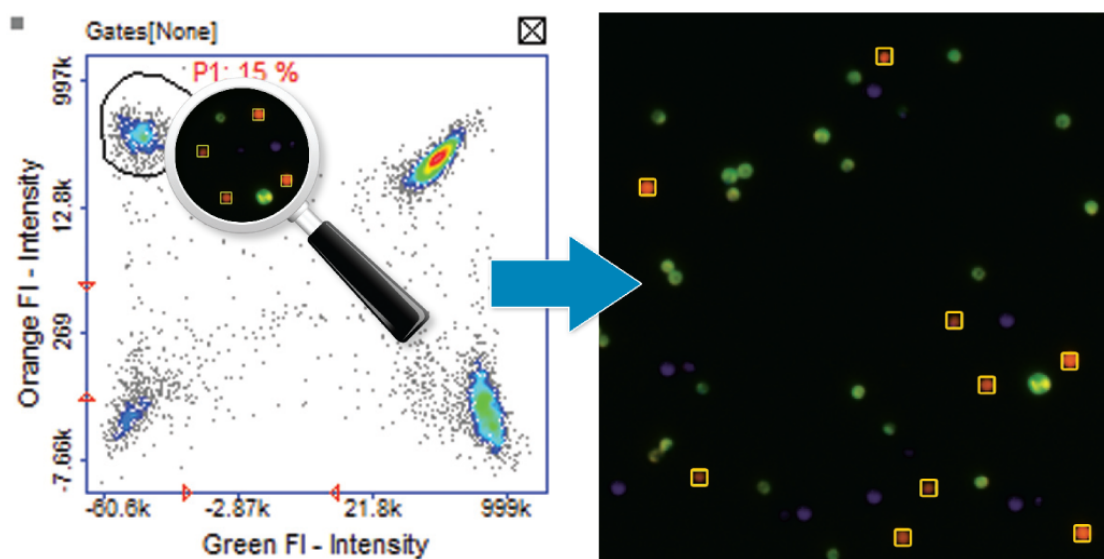


Figure 13. Connection between plot and image

Refer to the Software User's Guide for additional information.

7 Maintenance of NucleoCounter® NC-3000™

7.1 Cleaning

7.1.1 Instrument enclosure

We recommend carrying out regular cleaning of the outer surfaces of the NucleoCounter® NC-3000™ with the frequency dependent upon the environment in which the instrument is operated. When cleaning the enclosure, use a soft cloth moisten with water and gently wipe the surface. Any contamination, which does not come off immediately, should be rubbed gently with a cloth wetted with mild detergent. Never use organic solvents or aggressive detergents to clean the exterior of the NucleoCounter® NC-3000™ as this might damage the surface. Daily cleaning of the enclosure can be performed by using a mild detergent.

7.1.2 Sample tray

When cleaning the sample tray, great care must be taken against introducing any liquid or dust into the NucleoCounter® NC-3000™. Any liquid that enters the interior of the NucleoCounter® NC-3000™ can damage the optical parts and thus compromise the quality of the analyses.

The black surface of the sample tray is anodized aluminum and can therefore be wiped off with a clean, dry and dust free cloth that reduces fiber contamination of the sample tray.

The sample tray and the optical parts inside the NucleoCounter® NC-3000™ should be properly protected against dust and other contaminants. Take great care to ensure that the sample tray is inserted when the instrument is not in use. If the black surface of the sample tray becomes contaminated, clean it immediately with a clean, dry and dust free cloth.

7.1.3 Removal of dust particles

There are two optical windows in the sample tray. Please ensure that these are kept clean at all times. In case cleaning of a window is needed, use the NucleoCounter® Cleaning kit (Product No.: 911-0013) and follow the instructions.



Figure 14. Illustration of how to clean the optical windows with a clean and dry Alpha® Swab.

The illustration above shows how to wipe the optical window. Place a clean Alpha® Swab on the inner part of the window, then move it outwards and repeat to cover the complete optical window. In the same manner, the optical window at the Cassette area can also be cleaned.

A foreign object on the surface of an optical component can affect data collection. Objects will normally be visible as a faint shape in the image. In the case of the contamination lying on the Cassette or on the NC-slide, it will not be visible when analyzing a new Cassette or slide. If the contamination is on the optical window, it will be present on every image taken at this view⁴ of the optical window. If the contamination is present on every image taken no matter which view is used, it is most likely that other optical parts are contaminated. In this case contact ChemoMetec support. Figure 15 shows an example of a contamination in the top right quarter.

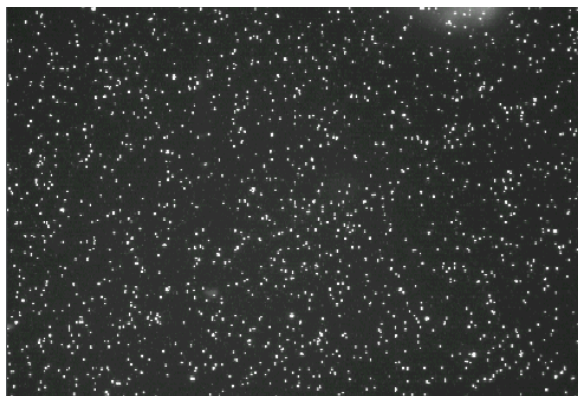


Figure 15. An image showing a contamination of the optical system, visible as a white cloudy phenomenon in the upper right-hand corner.

⁴ A Cassette can have five views, and a slide can have as many as 40 views.

The presence of a contaminant (e.g. dust particles) will usually not influence the cell analysis. The NucleoView™ NC-3000™ will distinguish between cells and contaminants, since a cell generally is significantly smaller than contaminants.

7.1.4 *Liquid Spill*

If liquid is spilled on the instrument it can contaminate elements of the optical system. This contamination can show up in the image in several ways and have many causes, but a common feature is that it cannot be removed using compressed air.

Although such phenomena are clearly visible on the image, they rarely affect the results of the analysis. Since it is possible to damage the optical system while attempting to clean it, we recommend consulting ChemoMetec before attempting such cleaning.

7.2 Decontamination

In case decontamination of the NucleoCounter® NC-3000™ is required, please contact ChemoMetec beforehand for instructions.

8 Troubleshooting - Error messages

Under certain conditions, the NucleoView™ NC-3000™ software will display software error messages during operation. Corrective actions are suggested below and actions can be found in the NucleoView™ NC-3000™ Software User's Guide, but if they do not correct the issues, contact ChemoMetec or your local distributor.

8.1 Required hard disk space for data storage.

The CM files stored on the hard disk can vary in size from 1MB up to more than 50MB. Therefore, it is important from time-to-time to check whether there is enough free storage space on the hard disk before running your analysis. We recommend a minimum of 10 GBs free space on the hard disk.

We recommend periodic archiving of CM files to an external storage system. The archived CM files can then be removed from the hard disk of the PC to free up disk space.

Periodic archiving can be made on either the creation date of the CM file, or when the free disk space falls below a predetermined amount, or when the disk space used for CM files exceeds a certain amount. Contact your local IT Administrator to get information about procedures for external data storing.

The archiving parameters could be for example:

- CM files older than three months are archived.
- When CM files use more than 50GBs of disk space, archive the oldest CM files until less than 20GB is used.
- When free space is less than 10 GBs, archive the oldest CM files until less than 20GB is used.

Refer to the NucleoView™ NC-3000™ User's Guide⁵ for additional information.

8.2 Power-on failure

If the NucleoCounter® NC-3000™ cannot be turned on, please verify that the power supply is connected to the NucleoCounter® NC-3000™ and a working main plug.

If the NucleoCounter® NC-3000™ still does not turn on, inspect and/or replace the fuse as described below.

The fuse holder is located at the rear side above the power plug, see Figure 16.

⁵ Locate the file "Install_Guide.html" on the USB Flash drive and follow the directions.

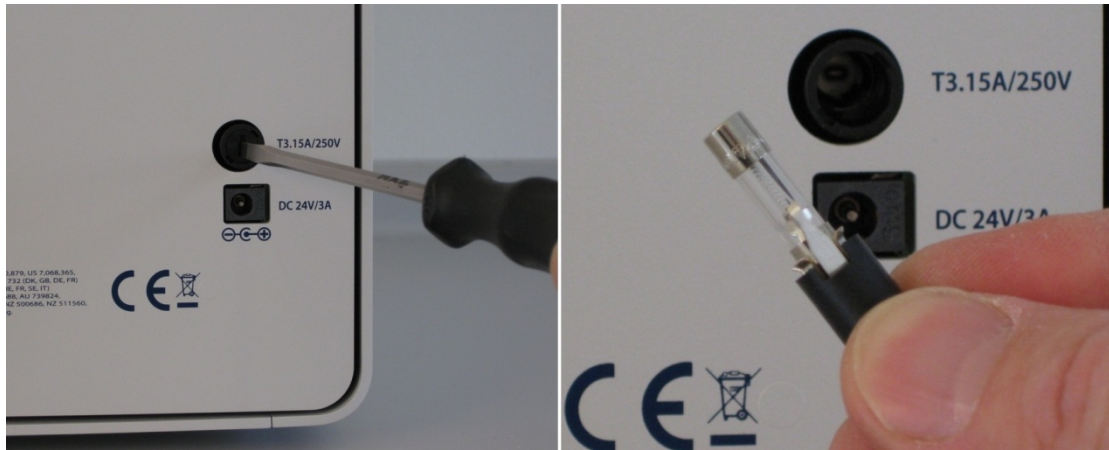


Figure 16. Location, removal and inspection of the fuse

Disconnect the power supply from the NucleoCounter® NC-3000™. Then remove the fuse holder using a screwdriver as indicated in Figure 16 (turn CCW). Inspect the fuse. If it needs replacement use one as described by ChemoMetec.

If the NucleoCounter® NC-3000™ does not turn on after replacement of the fuse, or if the fuse was not broken, please contact ChemoMetec or your local distributor for further instructions.

9 Technical specifications

9.1 The NucleoCounter® NC-3000™

Optics	Lens with 2x magnification, 1/2" CCD with 1392 x 1040 pixels.
Sample device	Cassettes and disposable chamber slides (two or eight chambers per slide).
Excitation (nm)	Standard version*: Six LED light sources for fluorescence with excitation peaks at 365, 405, 455**, 475, 530, 630 and two white LED light sources for bright field** and dark field.
Emission (nm)	Nine interchangeable emission filters: 430/20, 470/55, 475/15, 530/15, 560/35, 580/25, 675/75, 630 LP, 740/60.
Sample consumption	60 µl (Cassettes), ~ 30 µl (NC-Slide A2), ~10 µl (NC-Slide A8).
Analyzed volume	3.2 µl sample (Cassettes) and 0.8-16 µl sample (chamber slides).
Optimal Range	5×10^4 - 5×10^6 cells/ml (for counting).
Cell types	Mammalian cells, yeast, insect, avian cells.
PC Platform	Microsoft Windows 10, at least one USB 3.0 or USB 2.0, minimum 1024x768 screen resolution, at least 4 GB RAM and 10 GB free disk space.
Analysis time	Variable, depending on consumable used and assay type.
Data presentation	Images, tables, histograms, scatter plot.
Weight and Dimensions	14 kg. 29 x 29 x 31 cm [H x W x D].
Supply Voltage	100-240V~ 50-60Hz
Power Consumption	5/50W (power save mode/peak).
Operation and storage conditions	Maximum relative humidity 80 percent for temperatures up to 31 °C decreasing linearly to 65 percent relative humidity at maximum 35 °C; minimum temperature 15 °C.

*From the NC-3000 series 9003001xxxx01000 and onwards, the not used LED light source with excitation maximum at 500 nm has been removed

** Light source not available in FlexiCyte™

9.2 Sample media

Storage and stability Refer to package insert for the appropriate sample media type.

9.3 Standards

Please refer to the section [Declaration of Conformity \(CE\) - EXAMPLE](#) or [Declaration of Conformity \(UKCA\) - EXAMPLE](#) for an overview of compliance to the EU and UK standards.

10 Equipment and Accessories

On www.chemometec.com an updated list of Equipment and Accessories for the NucleoCounter® NC-3000™ are available.

11 Disclaimer

The information contained herein is to the best of our knowledge accurate and complete. However, cell species and cell environments may vary in property. Therefore, systematic and/or random deviation between estimates obtained by the NucleoCounter® and other cell counting methods may occur. As such, nothing contained or stated herein including results obtained from use of the NucleoCounter® or sample media shall be construed to imply any warranty or guarantee. ChemoMetec and affiliated companies shall not be held liable for damages and customers shall indemnify ChemoMetec and affiliated companies against liability flowing from use of potentially inaccurate data generated by the NucleoCounter®. It is recommended that all results obtained with the NucleoCounter® are validated against appropriate reference methods and/or traditional laboratory methods at regular intervals.

Appendix A: Description of changes from latest revision

This chapter describes changes from latest revision of this User guide.

A.1 New:

- N/A

A.2 Changes:

- Updated Windows requirements in alignment with NC-3000 Software User Guide (page 6 and 23).

A.3 Removed:

- N/A

Appendix B: WEEE directive information in more EU languages

United Kingdom

Correct Disposal of This Product (Waste Electrical & Electronic Equipment) - Europe only



This marking shown on the product or its literature, indicates that it should not be disposed together with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Sweden

Korrekt avfallshantering av produkten (elektriska och elektroniska produkter) - Endast för Europa



Denna markering på produkten och i manualen anger att den inte bör sorteras tillsammans med annat hushållsavfall när dess livstid är över. Till förebyggande av skada på miljö och hälsa bör produkten hanteras separat för ändamålsenlig återvinning av dess beståndsdelar.

Företagsanvändare bör kontakta leverantören samt verifiera angivna villkor i köpekontraktet. Produkten bör inte hanteras tillsammans med annat kommersiellt avfall.

Slovenia

Ustrezno odstranjevanje tega izdelka (odpadna električna in elektronska oprema) - Samo Evropa



Oznaka na izdelku ali spremljevalni dokumentaciji pomeni, da ga na koncu uporabne dobe ne smemo odstranjevati skupaj z drugimi gospodinjstvi odpadki. Da bi preprečili morebitno tveganje za okolje ali zdravje človeka zaradi nenadzorovanega odstranjevanja odpadkov, izdelek ločite od drugih vrst odpadkov in ga odgovorno reciklirajte ter tako spodbudite trajnostno ponovno uporabo materialnih virov.

Podjetja naj pokličejo dobavitelja in preverijo pogoje nabavne pogodbe. Tega izdelka pri odstranjevanju ne smete mešati z drugimi gospodarskimi odpadki.

Slovakia

Správna likvidácia tohoto výrobku (Elektrotechnický a elektronický odpad) - Platí len pre Európu



Toto označenie na výrobku alebo v sprievodnej brožúre hovorí, že po skončení jeho životnosti by nemal byť likvidovaný s ostatným odpadom. Prípadnému poškodeniu životného prostredia alebo ľudského zdravia môžete predísť tým, že budete takéto typy výrobkov oddeľovať od ostatného odpadu a vrátite ich na recykláciu.

Priemyselní používatelia by mali kontaktovať svojho dodávateľa a overiť si podmienky kúpnej zmluvy. Tento výrobok by nemal byť likvidovaný spolu s ostatným priemyselným odpadom.

Portugal

Eliminação Correcta Deste Produto (Resíduo de Equipamentos Eléctricos e Electrónicos) - Apenas na Europa



Esta marca, apresentada no produto ou na sua literatura indica que ele não deverá ser eliminado juntamente com os resíduos domésticos indiferenciados no final do seu período de vida útil. Para impedir danos ao ambiente e à saúde humana causados pela eliminação incontrolada de resíduos deverá separar este equipamento de outros tipos de resíduos e reciclá-lo de forma responsável, para promover uma reutilização sustentável dos recursos materiais.

Os utilizadores profissionais deverão contactar o seu fornecedor e consultar os termos e condições do contrato de compra. Este produto não deverá ser misturado com outros resíduos comerciais para eliminação.

Poland

Prawidłowe usuwanie produktu (zużyty sprzęt elektryczny i elektroniczny) - Tylko obszar Europy



Oznaczenie umieszczone na produkcie lub w odnoszących się do niego tekstach wskazuje, że produktu po upływie okresu użytkowania nie należy usuwać z innymi odpadami pochodzącymi z gospodarstw domowych. Aby uniknąć szkodliwego wpływu na środowisko naturalne i zdrowie ludzi wskutek niekontrolowanego usuwania odpadów, prosimy o oddzielenie produktu od innego typu odpadów oraz odpowiedzialny recykling w celu promowania ponownego użycia zasobów materialnych jako stałej praktyki.

Użytkownicy w firmach powinni skontaktować się ze swoim dostawcą i sprawdzić warunki umowy zakupu. Produktu nie należy usuwać razem z innymi odpadami komercyjnymi.

Norway

Korrekt avhending av dette produkt (Avfall elektrisk og elektronisk utstyr) - Kun Europa



Denne merkingen som vises på produktet eller dens dokumentasjon, indikerer at den ikke skal kastes sammen med annet husholdningsavfall ved slutten av sin levetid. For å hindre mulig skade på miljøet eller menneskelig helse fra ukontrollert avfallsavhending, vennligst atskill dette fra andre typer avfall og resirkuler det ansvarlig for å fremme bærekraftig gjenbruk av materielle ressurser.

Forretningsbrukere bør kontakte sin leverandør og undersøke vilkårene i kjøpekontrakten. Dette produktet skal ikke blandes med annet kommersielt avfall som skal kastes.

Netherlands

Correcte verwijdering van dit product (elektrische & elektronische afvalapparatuur) - Alleen Europa



Dit merkteken op het product of het bijbehorende informatiemateriaal duidt erop dat het niet met ander huishoudelijk afval verwijderd moet worden aan het einde van zijn gebruiksduur. Om mogelijke schade aan het milieu of de menselijke gezondheid door ongecontroleerde afvalverwijdering te voorkomen, moet u dit product van andere soorten afval scheiden en op een verantwoorde manier recyclen, zodat het duurzame hergebruik van materiaalbronnen wordt bevorderd.

Zakelijke gebruikers moeten contact opnemen met hun leverancier en de algemene voorwaarden van de koopovereenkomsten nalezen. Dit product moet niet worden gemengd met ander bedrijfsafval voor verwijdering.

Latvia

Izstrādājuma pareiza likvidēšana (nolietotas elektriskās un elektroniskās ierīces) - Tikai Eiropā



Uz izstrādājuma vai tam pievienotajās instrukcijās dots marķējums norāda, ka to nedrīkst likvidēt kopā ar citiem sadzīves atkritumiem pēc tā ekspluatācijas laika. Lai novērstu vides un cilvēku veselībai iespējamo kaitējumu, kas ir saistīts ar nekontrolējamu atkritumu likvidēšanu, tas jānosūtījis no citiem atkritumiem un jāpārstrādā, lai sekmētu materiālo resursu atbilstīgu atkārtotu lietošanu.

Rūpnieciskajiem lietotājiem jāsaazinās ar piegādātāju un jāpārbauda pirkuma līguma nosacījumi. Šo izstrādājumu nedrīkst sajaukt ar citiem likvidējamajiem rūpnieciskajiem atkritumiem.

Lithuania

Tinkamas produkto atliekų tvarkymas (atitarnavusi elektros ir elektronikos įranga) - Tik Europai



Šis ženklas, pateikiamas ant produkto ar jo dokumentacijoje, nurodo, kad pasibaigus produkto tarnavimo laikui, jo negalima išmesti kartu su kitomis buitinėmis atliekomis. Kad būtų išvengta galimos nekontroliuojamo atliekų išmetimo žalos aplinkai arba žmonių sveikatai, ir siekiant skatinti aplinką tausojantį antrinių žaliavų panaudojimą, pašom atskirti jį nuo kitų rūšių atliekų ir atiduoti perdirbti.

Verslo vartotojai turėtų kreiptis į savo tiekėją ir peržiūrėti pirkimo sutarties sąlygas. Šis produktas tvarkant atliekas negali būti sumaišytas su kitomis atliekomis.

Italy

Corretto smaltimento del prodotto (rifiuti elettrici ed elettronici) - Solo Europa



Il marchio riportato sul prodotto o sulla sua documentazione indica che il prodotto non deve essere smaltito con altri rifiuti domestici al termine del ciclo di vita. Per evitare eventuali danni all'ambiente o alla salute causati dall'inopportuno smaltimento dei rifiuti, si invita l'utente a separare questo prodotto da altri tipi di rifiuti e di riciclarlo in maniera responsabile per favorire il riutilizzo sostenibile delle risorse materiali.

Gli utenti aziendali sono invitati a contattare il proprio fornitore e verificare i termini e le condizioni del contratto di acquisto. Questo prodotto non deve essere smaltito unitamente ad altri rifiuti commerciali.

Hungary

A termék megfelel leadása (Elektromos és elektronikus készülékek hulladékkezelése) - Kizárólag Európá



A terméken vagy a hozzá tartozó dokumentáción szereplő jelzés arra utal, hogy hasznos élettartama végén a terméket nem szabad háztartási hulladékkal együtt kidobni. Annak érdekében, hogy megel zhet legyen a szabálytalan hulladékleadás által okozott környezet- és egészségkárosodás, különítse ezt el a többi hulladéktól, és felel sségteljesen gondoskodjon a hulladék leadásáról, a hulladékhanyagok fenntartható szint újrafelhasználása céljából.

Az üzleti felhasználók lépjenek kapcsolatba a forgalmazóval, és vizsgálják meg az adásvételi szerz dés feltételeit. A terméket nem szabad leadni kereskedelmi forgalomból származó egyéb hulladékkal együtt.

France

Comment éliminer ce produit (déchets d'équipements électriques et électroniques) - Europe uniquement



Ce symbole sur le produit ou sa documentation indique qu'il ne doit pas être éliminé en fin de vie avec les autres déchets ménagers. L'élimination incontrôlée des déchets pouvant porter préjudice à l'environnement ou à la santé humaine, veuillez le séparer des autres types de déchets et le recycler de façon responsable. Vous favoriserez ainsi la réutilisation durable des ressources matérielles.

Les entreprises sont invitées à contacter leurs fournisseurs et à consulter les conditions de leur contrat de vente. Ce produit ne doit pas être éliminé avec les autres déchets commerciaux.

Finland

**Tämän tuotteen turvallinen hävittäminen
(elektronikka ja sähkölaitteet) - Vain Eurooppa**

Oheinen merkintä tuotteessa tai tuotteen oheismateriaalissa merkitsee, että tätä tuotetta ei tule hävittää kotitalousjätteen mukana sen elinkaaren päätyttyä. Hallitsemattomasta jätteenkäsittelystä ympäristölle ja kanssaihminen terveydelle aiheutuvien vahinkojen välttämiseksi tuote tulee käsitellä muista jätteistä erillään. Jäte on hyvä kierrättää raaka-aineiksi kestävän ympäristökehityksen takia.

Yrityskäyttäjien tulisi ottaa yhteyttä tavarantoimittajaan ja selvittää hankintasopimuksen ehdot. Tätä tuotetta ei tule hävittää muun kaupallisen jätteen seassa.

Estonia

**Õige viis toote kasutusest kõrvaldamiseks
(elektriliste ja elektrooniliste seadmete jäätmed) - Ainult Euroopa**

Selline tähistus tootel või selle dokumentidel näitab, et toodet ei tohi kasutaja lõppemisel kõrvaldada koos muude olmejäätmetega. Selleks, et vältida jäätmete kontrollimatu kõrvaldamisega seotud võimaliku kahju tekitamist keskkonnale või inimeste tervisele ning edendada materiaalse vahendite säästvat taaskasutust, eraldage toode muudest jäätmetest ja suunake taasringlusse.

Firmad peaksid võtma ühendust tarnijaga ning kontrollima ostulepingu tingimusi ja sätteid. Toodet ei tohi panna muude hävitamiseks mõeldud kaubandusjäätmete hulka.

Spain

**Eliminación correcta de este producto
(material eléctrico y electrónico de descarte) - Europa solamente**

La presencia de esta marca en el producto o en el material informativo que lo acompaña, indica que al finalizar su vida útil no deberá eliminarse junto con otros residuos domésticos. Para evitar los posibles daños al medio ambiente o a la salud humana que representa la eliminación incontrolada de residuos, separe este producto de otros tipos de residuos y recíclelo correctamente para promover la reutilización sostenible de recursos materiales.

Los usuarios comerciales pueden contactar con su proveedor y consultar las condiciones del contrato de compra. Este producto no debe eliminarse mezclado con otros residuos comerciales.

Greece

**Σωστή Διάθεση αυτού του Προϊόντος
(Απορρίμματα Ηλεκτρικού & Ηλεκτρονικού Εξοπλισμού) - Μόνον για την Ευρώπη**

Τα σύμβολα που εμφανίζονται επάνω στο προϊόν ή στα εγχειρίδια που το συνοδεύουν, υποδεικνύουν ότι δεν θα πρέπει να ρίπτεται μαζί με τα υπόλοιπα οικιακά απορρίμματα μετά το τέλος του κύκλου ζωής του. Προκειμένου να αποφευχθούν ενδεχόμενες βλαβερές συνέπειες στο περιβάλλον ή την υγεία εξαιτίας της ανεξέλεγκτης διάθεσης απορριμμάτων, σας παρακαλούμε να το διαχωρίσετε από άλλους τύπους απορριμμάτων και να το ανακυκλώσετε, ώστε να βοηθήσετε στην βιώσιμη επαναχρησιμοποίηση των υλικών πόρων.

Οι επιχειρήσεις-χρήστες θα πρέπει να έλθουν σε επαφή με τον προμηθευτή τους και να ελέγξουν τους όρους και τις προϋποθέσεις του συμβολαίου πώλησης. Το προϊόν αυτό δεν θα πρέπει να αναμινύεται με άλλα συνηθισμένα απορρίμματα προς διάθεση.

Germany

**Korrekte Entsorgung dieses Produkts
(Elektromüll) - Nur Europa**

Anzuwenden in den Ländern der Europäischen Union und anderen europäischen Ländern mit einem separaten Sammelsystem) Die Kennzeichnung auf dem Produkt bzw. auf der dazugehörigen Literatur gibt an, dass es nach seiner Lebensdauer nicht zusammen mit dem normalen Haushaltsmüll entsorgt werden darf. Entsorgen Sie dieses Gerät bitte getrennt von anderen Abfällen, um der Umwelt bzw. der menschlichen Gesundheit nicht durch unkontrollierte Müllbeseitigung zu schaden. Recyceln Sie das Gerät, um die nachhaltige Wiederverwertung von stofflichen Ressourcen zu fördern.

Gewerbliche Nutzer sollten sich an Ihren Lieferanten wenden und die Bedingungen des Verkaufsvertrags konsultieren. Dieses Produkt darf nicht zusammen mit anderem Gewerbemüll entsorgt werden.

Denmark

**Korrekt affaldsbortskaffelse af dette produkt
(elektrisk & elektronisk udstyr) - Kun Europa**

Mærket på dette produkt eller i den medfølgende dokumentation betyder, at produktet ikke må bortskaffes sammen med almindeligt husholdningsaffald efter endt levetid. For at undgå skadelige miljø- eller sundhedspåvirkninger på grund af ukontrolleret affaldsbortskaffelse skal dette produkt bortskaffes særskilt fra andet affald og indleveres behørigt til fremme for bæredygtig materiale genvinding.

Erhvervsbrugere bedes kontakte leverandøren og læse betingelserne og vilkårene i købekontrakten. Dette produkt bør ikke bortskaffes sammen med andet erhvervsaffald.

Czechoslovakia

**Správná likvidace tohoto produktu
(Zničení elektrického a elektronického zařízení) - Pouze Evropa**

Tato značka zobrazená na produktu nebo v dokumentaci znamená, že by neměl být používán s jinými domácími zařízeními po skončení svého funkčního období. Aby se zabránilo možnému znečištění životního prostředí nebo zranění člověka díky nekontrolovanému zničení, oddělte je prosíme od dalších typů odpadů a recyklujte je zodpovědně k podpoře opětovného využití hmotných zdrojů.

Obchodníci by měli kontaktovat své dodavatele a zkontrolovat všechny podmínky koupě. Tento výrobek by se neměl míchat s jinými komerčními produkty, určenými k likvidaci.

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