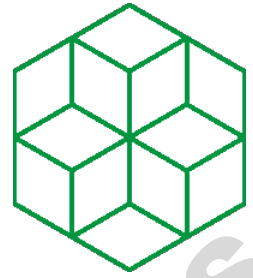


Scan[®] 50

Manual colony counters



Models: Scan[®] 50 / Scan[®] 50 pro

User's manual – English version



interscience

DOMINIQUE DUTSCHER SAS

Scan[®] 50

Scan[®] 50 - ref. 435 050

Scan[®] 50 pro - ref. 435 055

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Thank you for choosing
interscience

This handbook is designed
to use Scan[®] 50
and answer your questions.

However, if you have any further questions after
reading this handbook, please do not hesitate to
contact us

WORLDWIDE

Email: tech@interscience.com

Phone: +33 (0)1 34 62 63 24

USA/CANADA

Email: support@intersciencelab.com

Phone: +1 781 937 0007

SOUTH EAST ASIA

Email: support.asia@interscience.com

Phone: +65 9880 9360

CHINA

Email: tech.china@interscience.cn

Phone: +86 021 6473 9327

JAPAN

Email: support.japan@interscience.com

Phone: +81 3 6712 9715

If you require the documentation in a specific
language,
please contact your distributor, who will tell you in
which languages the manual is available.

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Summary

1	SETTING UP THE COLONY COUNTER	9
1.1	Package contents	9
1.2	Unpacking	10
1.3	Front panel of the manual counter	11
1.3.1	ISO view of Scan® 50 pro	12
1.4	Rear connections	15
2	MANUAL COUNTING OF COLONIES ON PETRI DISHES	17
2.1	Functions of the Scan® 50 keyboard	18
2.2	Saving counting result onto computer	21
2.2.1	Transfer a count result	21
2.2.2	Transfer a barcode	21
3	MAINTENANCE	22
3.1	Cleaning the counting surface	22
ANNEXE 1	TECHNICAL SPECIFICATIONS	23
ANNEXE 2	LIST OF ACCESSORIES	24
ANNEXE 3	WARRANTY	25
ANNEXE 4	CERTIFICAT CE	26
ANNEXE 5	CERTIFICAT UKCA	27

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1 Setting up the colony counter

The Scan® 50 pro / Scan® 50 colony counter is an instrument with a touch surface, for counting by manual pressure, confirmed by a sound or light signal.

Dark Field 2 technology provides sharp, high-contrast indirect LED lightening of colonies for accurate counting on Petri dishes (Ø 55 and 90 mm) or pads (PetriFilm™ / MC-Media Pads™ / Compact Dry™ / EasyPlate™).

The inclined reading surface, the hand and forearm supports, the keys on each side of the counting keyboard, offer the same comfort of use to a right or left-handed operator.

The sending of the counting result to the computer, by USB link, ensures its traceability and its exact retranscription, without intermediate software processing.

1.1 Package contents



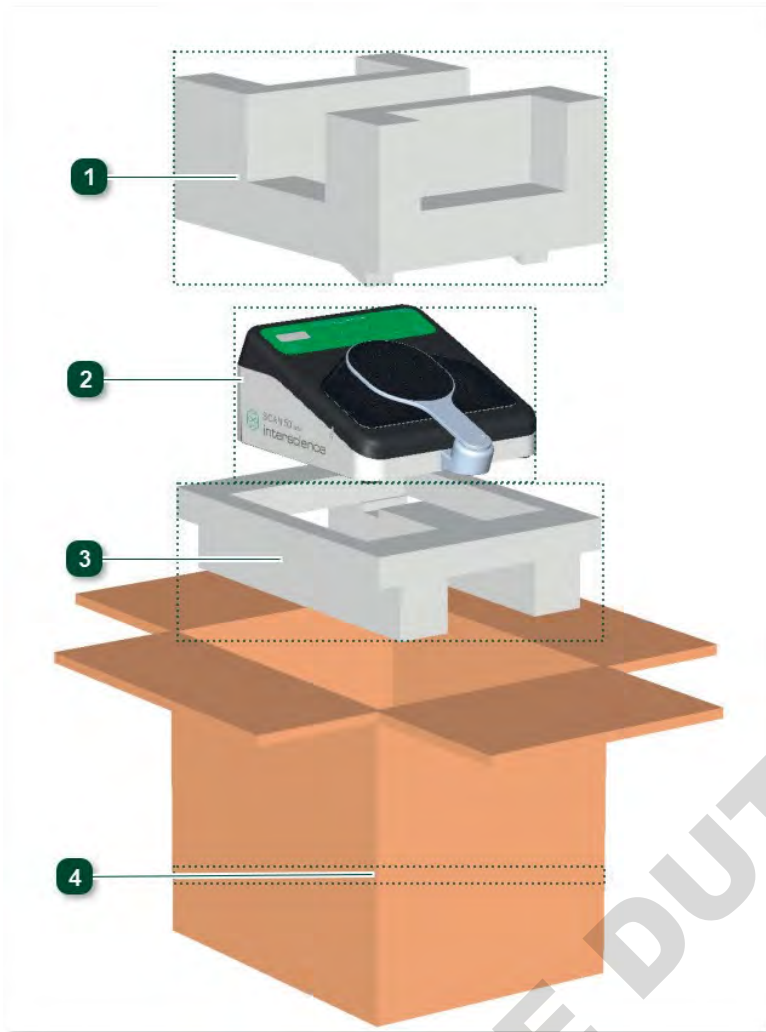
Open the main box.



Remove the top box which contains:

- 1 power cord + 1 transformer
- 1 USB cable + 1 white diffusing counting
- grid 1 black marker pen + 1 user manual

1.2 Unpacking



1



Top foam wedge

2



Scan[®] 50 or Scan[®] 50 pro

3



Lower foam wedge

4

Transport box

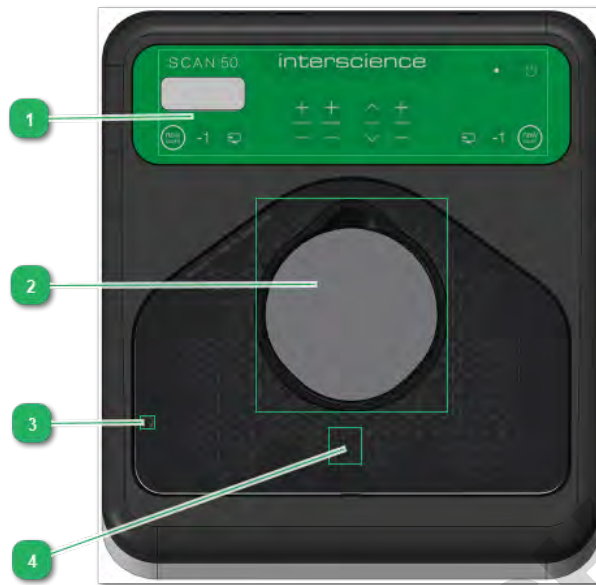
NOTE: Place hands on both sides of the unit to remove it from the box. Keep boxes and blocks to store, move or return the unit in case of failure.



Install the unit in a room with a temperature between 15 and 40°C and a humidity level between 15 and 80%.

Place the unit on a stable surface, away from any source of vibration that could alter the counting.

1.3 Front panel of the manual counter



Picture 1: Counting station

1 Multi-function keyboard



Switch on the device - Manage the count result (add or remove a colony, counter reset, export)

Pre-count settings (touch surface sensitivity, light or sound signal, sound level, brightness, volume)

2 Touch surface



Depending on the culture medium or analysis method, set a transparent or a white diffusing counting grid on the touch surface.

Set then the plated Petri dish on the touch surface, dish lid on the glass side.

3 Headset jack



The use of the headset helps to focus on the progress of the count, without disturbing the work environment.

4 Pad for hands

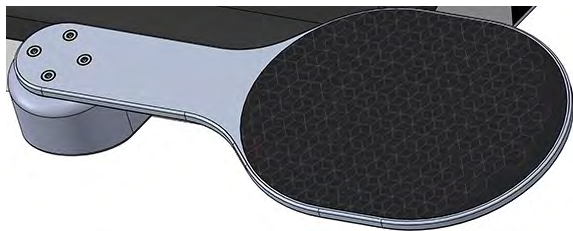


Put your hands down during the counting process, to limit postural tiring.

1.3.1 ISO view of Scan® 50 pro



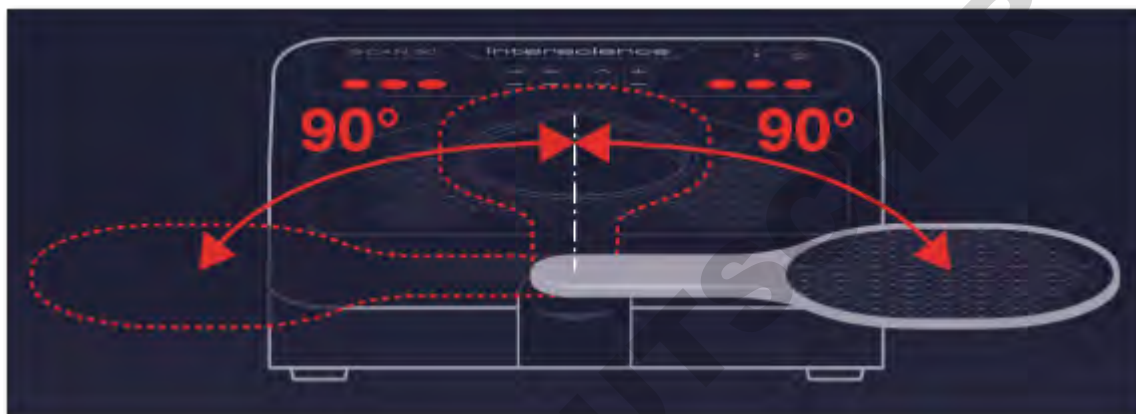
1 HandPad on Scan 50 pro



Rotate 90° to the right or left to rest the left or right forearm while counting.

At the end of the count, bring the handpad back on the glass, to protect it from shocks and dust. This position puts the counter in standby. The LED on the Scan[®] 50 keyboard is red. ●

Moving the handpad ends the standby mode. The LED goes out, the device is ready for counting.



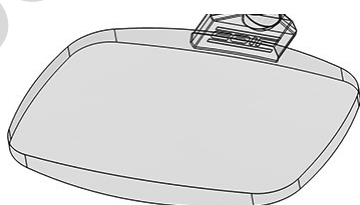
2 Headset for Scan[®] 50 pro



Connect to the device, to hear the counting signal.

This accessory is optional for Scan[®] 50.

3 Magnifying lens on flexible arm



Mount the magnifying lens on the counter, to enlarge the size of the colonies during the counting.

This accessory is optional.

4

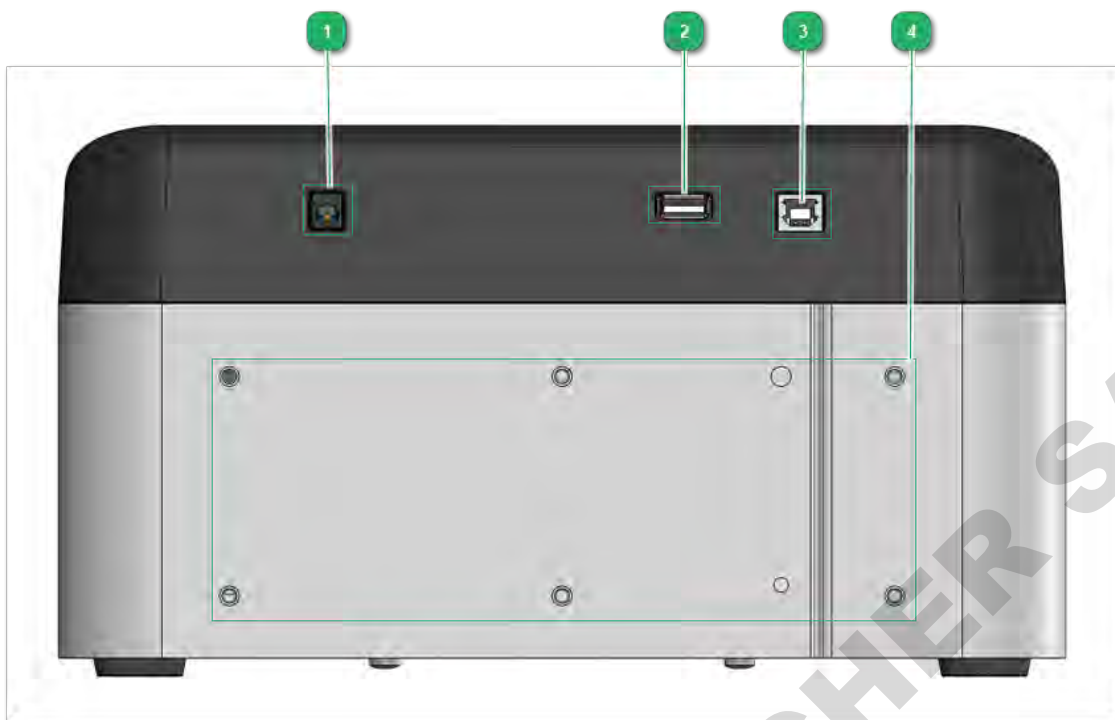
Storage hatch



In this space, store counting grids, white backgrounds diffusing

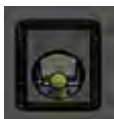


1.4 Rear connections



Picture 2: Back of the device

1 Power input



Plug the power unit to the counter socket and to the grounded mains one. The device is in standby mode. The LED on the Scan[®] 50 keyboard is red. ●



Press the keyboard. The LED goes out, the device is ready for counting.

2 USB input



If necessary, connect the barcode reader to the counter USB input.

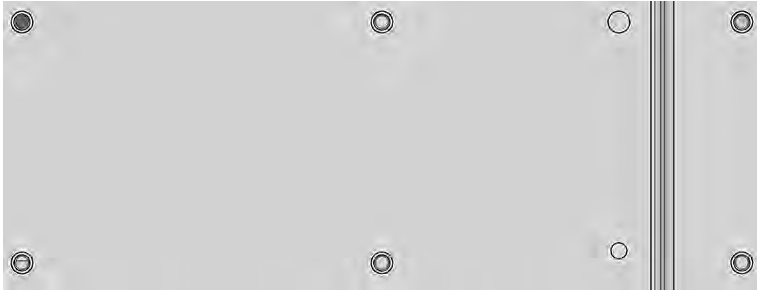
3 USB output



Connect the USB cable to the counter USB output and to a computer USB port

4

Locations to mount the magnifying lens



Mount the magnifying lens on the counter, to enlarge the size of the colonies when counting.

This optional accessory will be ordered separately.

1. Screw the magnifying lens onto the flexible arm with the knob.
2. Select the location where the magnifying lens will be mounted on the back of the unit: left, center or right.
3. Attach the lens bracket vertically with the two knurled screws provided.
4. To position the magnifying lens over the counting surface, handle the flexible arm.



Picture 3: Mounting the magnifying lens on the counter back

2 Manual counting of colonies on Petri dishes



Do not use glass Petri dishes, as they may scratch the glass of the counting surface.



For an optimal reading, check that

- the diameter of the Petri dish does not exceed 92 mm.
- the Petri dish does not bear any inscription or label, on the surface or on the bottom (prefer labeling and marking on the edge of the Petri dish).
- all settings before counting are done.



Before each new count, press the keypad to reset the counter to zero.

Depending on the culture medium or analysis method, set a transparent or a white diffusing counting grid on the touch surface.

The optional counting grid will be ordered separately.



Picture 4: transparent and white diffusing counting grids

Set the plated Petri dish on the touch surface, dish lid on the glass side.

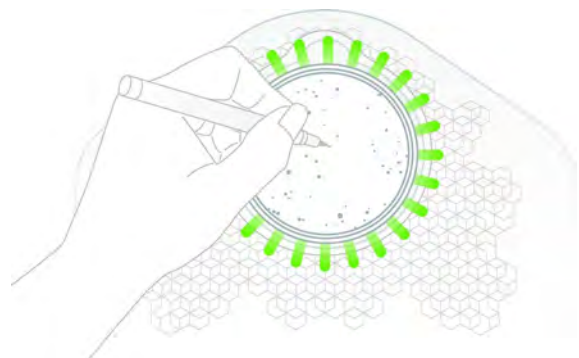
With the marker pen provided, press on each colony, identified on the back of the Petri dish.

The beep or flashing light confirms the addition of a colony to the count result.

In case of error, press to delete the last colony.



Press to send the count result to the computer.

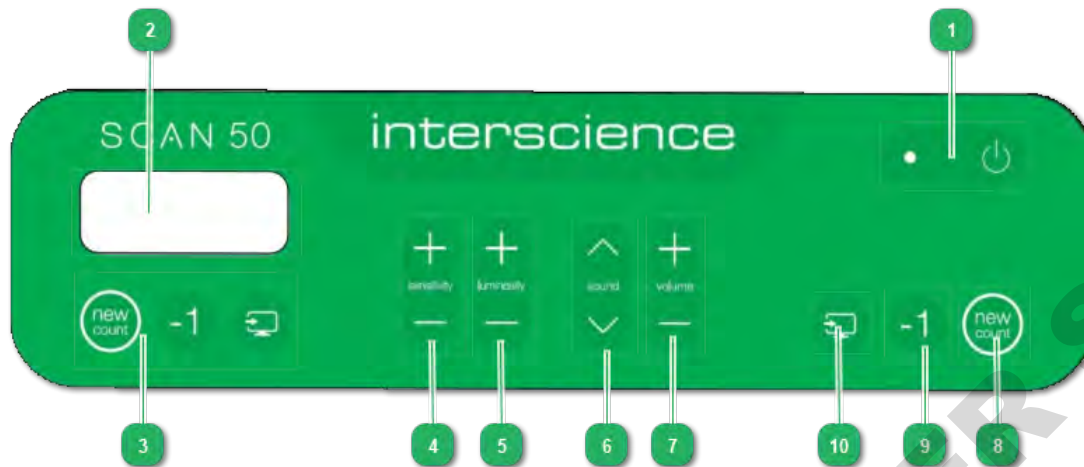


Picture 5: Counting on plated Petri dish

2.1 Functions of the Scan[®] 50 keyboard



Use finger pad to press the keys of the keyboard (no pen tip, no long nails...).



Picture 7: Scan[®] 50 pro / Scan[®] 50 key functions

1 Counter switch



- Press to take the counter out of standby mode. The LED goes out. The device is ready for a new count.
- Press to put the device in standby. The LED is red ●
- The device automatically switches to standby after 30 minutes of inactivity.

2 LCD screen



Monitoring the counting result - Display setting values

3 Monitoring the counting result



New count - Deleting a colony - Sending the result to the PC

Use the keys that give the required comfort to count, depending on their position on the keyboard.

4 Adjusting the sensitivity of the touch surface





  Press to increase or decrease the sensitivity, from 1 to 5.

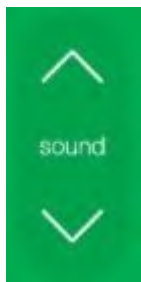
Pressing the surface when its sensitivity is at its highest immediately adds a colony to the counter.





5 Adjusting the brightness of the touch surface



  Press to increase or decrease brightness, from 0 to 5 (1 = min. brightness, 5 = max. brightness). To count without lighting, select level 0.

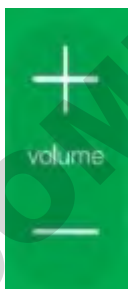
6 Selecting the count signal





  Press to select the sound signal from the 9 available beeps.   Select the value 10 to choose the light signal.

The value 10 activates the green flash, emitted by three LEDs located under the glass.

7 Adjusting the beep volume



  Press to increase or decrease the volume, from 0 to 5 (0 = mute, 5 = maximum volume).

8 Reset the counter to zero



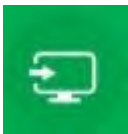
Press before each new count. LCD screen shows the number 0.

9 Delete a colony, counted by mistake



Press to subtract the colony from the count result.

10 Transfer the count result to the PC




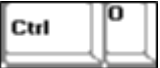



Press to send the value by USB link.

The final number of colonies is displayed in the document opened on the PC.



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2.2 Saving counting result onto computer

1. Link the computer and the Scan[®] 50 counter using USB cable. 
2. Switch on both devices. 
3. On the computer, run a spreadsheet (Excel[™] on Windows only) or a word processor (Word[™])
4.  Create a new document
- or  Open a saved file
5. In the current document, set the text cursor where the counting result will be inserted. 

2.2.1 Transfer a count result

1. Proceed with the counting.


2.  Press to send the count result to the computer. The value is inserted in front of the cursor, in the current document.
3. The cursor moves to the next line in the document, waiting for the next count result. 

4.  Save the document.




Picture 8: Sending the count result in an Excel file via USB

2.2.2 Transfer a barcode

1. Connect the barcode reader to the USB input of the counter. *This optional accessory will be ordered separately.*
2. With the reader, scan the barcode printed on the label of the Petri dish.
3. Petri dish reference is inserted in front of the cursor, in the current document. The cursor moves to the next column, waiting for the count result. 

4.  Save the document.

5. Proceed with the counting.

6.  Press to send the count result to the computer. The cursor moves to the next line in the current document, waiting for the reference of the next Petri dish. Save the document.

3 Maintenance



Unplug the printer from the mains before any maintenance or troubleshooting operation. Any work other than that described in the documentation must be carried out by a technician agreed by interscience, otherwise the customer's warranty on the device will be void.

Overall unit cleaning



In all circumstances, aggressive products such as acids, bases, strong oxidants are to be avoided. Do not use acetone or bleach.

It is recommended the use of mild, non-streaking products such as alcohol-based cleaners. These products must be compatible with polycarbonate and contain no solvents.

For disinfection, use a 70% ethanol or hydrogen peroxide solution (1 to 5%). If not, use compatible products with electronic, electric and metal equipment.

Remove any marker traces with 70% ethanol, whether on the keyboard or any other external part of the device.

3.1 Cleaning the counting surface

1. Remove the count pad from the counting surface.
2. Remove the glass to reach the black felt under the counting surface.
 - Clean the glass with the optical cleaner and a wipe. *This optional accessory will be ordered separately (ref. 435 702).*
 - Clean the felt with a piece of adhesive tape (scotch type). Apply the tape to the felt to trap any dust that has settled. After cleaning, replace the glass and the pad on the counting surface.



Picture 6: Removing the count pad



Picture 7: Removing the glass

Magnifier cleaning

The use of solvent- and alcohol-based products is prohibited.

Clean the magnifier with a soft cloth and soapy water, or with optical cleaner and a wipe.

This optional accessory will be ordered separately (ref. 435 702).

Appendix 1 Technical specifications

	Scan® 50	Scan® 50 pro
Reference	435 050	435 055
OVERVIEW		
Painted stainless steel shell	✓	✓
LIMS/SIL connection	✓	✓
USB connection	✓	✓
Counting on pour, surface, Spiral and circle plated Petri dishes	✓ (Manual)	✓ (Manual)
Counting on chromogenic dishes	✓ (Manual)	✓ (Manual)
Counting on Petrifilm™, Compact Dry™, MC-Media Pads™, EasyPlate™, filtration membranes	✓ (Manual)	✓ (Manual)
Counting on 100% of the Petri dish	✓	✓
White LED lighting without reflections	✓	✓
HandPad: ergonomic arm-rest	-	✓
Headphones included	-	✓
COUNTING		
Counting	Manual (0-1999 CFU)	
Manual control to add or subtract colonies	✓	✓
Counting light signal	✓	✓
Adjustable counting beeps	9 different sounds / 5 volume levels	
Counting zone	Touch surface with adjustable sensitivity	
SPECIFICATIONS		
White LED Lighting technology	Dark Field 2	
LED Lighting system	5 intensity levels	
Petri dish size	Ø 55 to Ø 90 mm	
Voltage - Frequencies	100-240 V~ 50-60 Hz	
Max. Power	20 W	
Warranty	3-year (after recording the warranty card)	
International protection marking	IP20	
Spare parts availability	10 years	
In compliance with	ISO 7218 and FDA BAM (Bacteriological Analytical Manual)	
TRACEABILITY		
USB Data export	To LIMS, as CSV spreadsheet (Excel™ Windows) or text file (Word™)	
Results/traceability	Counting result / sample number (with barcode reader connected)	
HERGESTELLT UNTER		
Manufactured under	CE, UKCA, ROHS, WEEE, Made in France	

Appendix 2 List of accessories

Reference		Designation
435 001		Magnifying lens + 1 flexible arm for Scan [®] 50 and Scan [®] 50 pro. Magnification x 2.
435 025		Wolffhugel transparent and white counting grids for Scan [®] 50 and Scan [®] 50 pro
435 036		easySpiral [®] counting grids: 1 transparent and 1 white diffusing background for Scan [®] 50 and Scan [®] 50 pro - Ø 90 mm
435 038		easySpiral [®] Dilute circle counting grids: Ø 90 mm - 1 transparent and 1 white diffusing background for Scan [®] 50 and Scan [®] 50 pro
435 051		Adaptor for Petrifilm [™] , MC-media Pads [™] , Compact Dry [™] , EasyPlate [™] for Scan [®] 50 and Scan [®] 50 pro
435 052		Headphones for Scan [®] 50 and Scan [®] 50 pro. Connection with a jack socket
435 702		Optical cleaner and 50 wipes
522 000		Barcode reader (1D / 2D)

Appendix 3 Warranty

The **Scan[®] 50 / Scan[®] 50 pro** manual colony counters are guaranteed to be free of defects in materials and workmanship for 12 months from the date of shipment as indicated on the delivery note.

**⚠ It is essential to use the power cord supplied with the manual colony counter.
The manual colony counter must be used under normal environmental conditions according to IEC 61010.**

Validate your warranty online on the website www.interscience.com and benefit from the maximum 36-month manufacturer's warranty from the date of purchase (excluding used equipment).

In case of failure, please contact your distributor or **interscience** Customer Support as tech@interscience.com

Material returns are accepted only with a return number indicated by **interscience**. The material must be returned to our plant, free of charge, in its original packaging, after our written agreement.

By express agreement, this device is guaranteed for the laboratory use for which it is intended and must be maintained according to the recommendations in user manual.

Industrial use and/or use without rest for the device would result in serious degradation of your product which would not be covered by our warranty.

Similarly, our warranty will not be effective in the event of unnecessary opening of the device or intervention by unqualified personnel.

INTERSCIENCE CUSTOMER SUPPORT Paris, FRANCE

E-mail: tech@interscience.com
Phone: +33 (0)1 34 62 63 24

CUSTOMER SUPPORT USA / CANADA

Woburn, MA - USA
E-mail: support@intersciencelab.com
Phone: +1 781 937 0007

CUSTOMER SUPPORT CHINA

Shanghai, CHINA
E-mail: tech.china@interscience.cn
Phone: +86 021 6473 9327

CUSTOMER SUPPORT JAPAN

Tokyo, JAPAN
E-mail: support.japan@interscience.com
Phone: +81 3 6712 9715

Appendix 4 Certificat CE

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30, ch. Bois Arpents - 78860 St Nom la Bretèche - France - T: +33 (0)1 34 62 62 61 - Email: info@interscience.com

EC DECLARATION OF CONFORMITY

INTERSCIENCE, producer, declare that the equipments below:

Colony counters

Scan® 50
Scan® 50 pro
Scan® 100
Scan® 300
Scan® 500
Scan® 1200
Scan® 4000

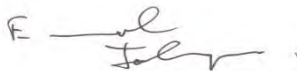
Lab accessories

DataLink® Pro
DataLink®
BagSeal®

are in conformity with the European Directives:

- 2014/35/EU (low voltage directive)
- 2014/30/EU (EMC directive)
- RoHS 2011/65/EU (Restriction of Hazardous Substances in Electrical and Electronic Equipment)
- WEEE 2012/19/EU (Waste from Electrical and Electronic Equipment)

St Nom-la-Bretèche,
October 20th, 2022



Emmanuel JALENQUES
Co-PDG

Appendix 5 Certificat UKCA

interscience

30, ch. Bois Arpents - 78860 St Nom la Breteche - France - T: +33 (0)1 34 62 62 61 - Email: info@interscience.com



UK DECLARATION OF CONFORMITY

INTERSCIENCE, producer, declare that the equipments below:

Colony counters

Scan@ 50
Scan@ 50 pro
Scan@ 100
Scan@ 300
Scan@ 500
Scan@ 1200
Scan@ 4000

Lab accessories

DataLink™ Pro
BagSeal®

are in conformity with the UK legislation:

- Electrical Equipment (Safety) Regulations 2016
- Electromagnetic Compatibility Regulations 2016
- Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipments Regulations 2012

St Nom-la-Breteche,
December the 19th, 2022

Emmanuel JALENQUES
Co-CEO

DOMINIQUE DUTSCHER SAS

PARIS

Phone: +33 (0)1 34 62 62 61
Email: info@interscience.com

FRANKFURT

Phone: +49 611 723 87 770
Email: sales.germany@interscience.com

BOSTON

Phone: +1 781 937 0007
Email: sales.usa@intersciencelab.com

SHANGHAI

Phone: +86 021-64739390
Email: sales.china@interscience.cn

SINGAPORE

Phone: +65 6977 7232
Email: sales.asia@interscience.com

TOKYO

Phone: +81 3 6712 9715
Email: sales.japan@interscience.com