

## TECHNICAL DATA

Motor	Stepping, Angle 7.5°, 9 W
Syringe volume:	10, 5, 2.5 or 1 ml autoclavable
Maximum flow speed:	4 ml/s with 10 ml syringe
Minimum volume step:	1/1000 of the total volume of syringe
Use of disposable tip:	Programmed from the beginning of process
Air bubble volume:	Programmable.
Sample volume:	Programmable. Limited to the tip volume (1300 µl)
Min. sample volume:	1% of the syringe volume used. Warning notice if it is less than 5%.
Dilution factor:	Programmable from 1:1 to 1:1000
Reproducibility:	Better than 1% even for dilutions using more than one single syringe stroke
Printer communication:	Serial RS 232, programmable
Mains:	100/240 V, 50/60 Hz
Power:	40 W
Dimensions (WxHxD):	30x30x20 cm
	11,8x11,8x7,8 cm
Weight:	6 kg/13,2 lb

## FOR ADVANCED ONLY

Balance communication:	Serial RS 232, programmable
Gravimetric dilution:	By specific weight of solvent
Linked programs:	Up to 9

Specifications subject to change without prior notice

## ORDERING INFORMATION

BIO DILUTOR with handgrip for tips, complete liquid circuit with bottle, 10 ml syringe and box of 60 units of gamma-irradiated tips.

	Cat.No.
BASIC	1300/1/2
ADVANCED	1310/1/2

Specify mains required (the Cat.No. may change)

## CONSUMABLES

	Cat. no.
Syringe complete (10 ml). Stainless steel plunger	1509
Syringe barrel (10 ml) + 2 silicon washers	1510
Box of 24 containers of 60 tips each irradiated with gamma rays	1470
Bag 1000 disposable tips not irradiated	1322
Bag of 10 stainless steel holders (60 tips)	1480
Box of 24 empty containers	1490
Box of 1000 irradiated straws	1450

## OPTIONAL ACCESSORIES

	Cat. no.
Stainless steel delivery tube for hand held	1502
Stainless steel delivery tube for 100 µl tips	1408
Handgrip for straws with stainless steel delivery tube, without silicone tubing (foot pedal needed)	1445
Foot pedal	1348
Autoclavable stand for syringes without syringe and adapter (no needed for 10 ml)	1330
Autoclavable syringe, 5 ml and adapter	1332+1335
Autoclavable syringe, 2.5 ml and adapter	1333+1336
Autoclavable syringe, 1 ml and adapter	1334+1337
Cable BIO DILUTOR-printer	2514
Cable BIO DILUTOR ADVANCED balance	2515

(State balance manufacturer and model when ordering)



### Contact us in internet.

To see how the instruments works in a multimedia demonstration, to buy instruments, accessories or consumables on-line visit our web page:

**[www.iul-inst.com](http://www.iul-inst.com)**

The IUL instrument owners who are registered in our web will have access to extra services like example of microbiology applications with our instruments, software updates, direct technical service and more.



6088R00 Nov-03

Information



**BIO DILUTOR**



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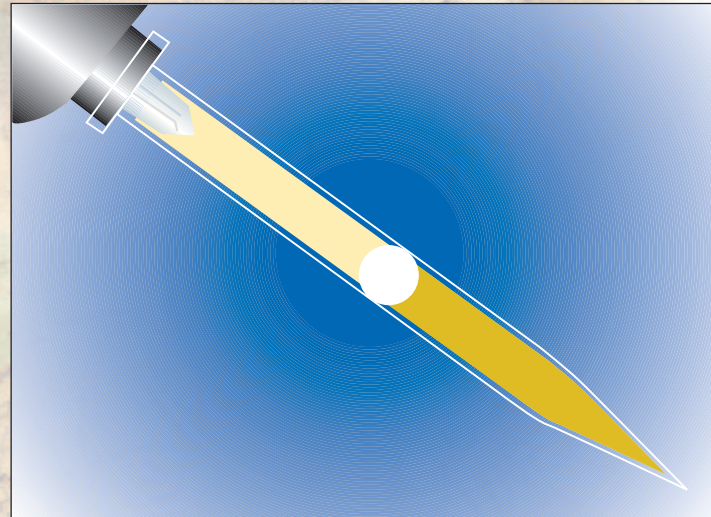


**Sterile conditions**

The periodic cleaning is absolutely essential in microbiology laboratories. All the parts of the liquid circuit of BIO DILUTOR are autoclavable. Removal and reinstalling this liquid circuit takes only a few seconds.

**Avoid the cross-contamination**

When the BIO DILUTOR takes the sample an air bubble is generated to prevent the mix between the sample and the solvent. Once the operation has been done the tip is rejected.



**Two interchangeable handgrips**

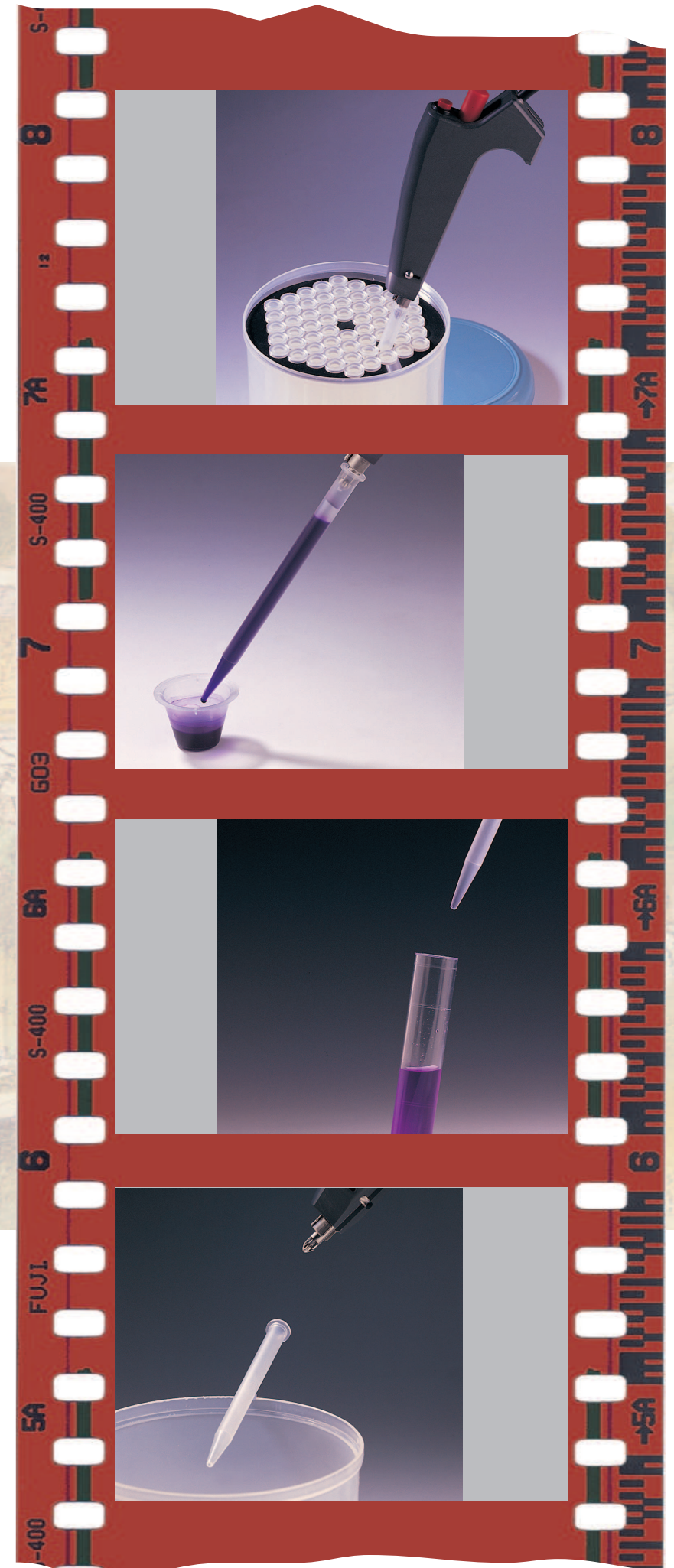
The handgrip for tips allows the tip to be placed in its working position directly from the container. The handgrip for straws is long enough to take the samples from the Masticator homogenizing bags.

Take the sterile tip from the container

Take the sample and the air bubble is created

Dispense the sample and the solvent

Release the used tip





## TECHNICAL DATA

Slides per basket:	Up to twenty
Containers for reagents:	Four
Rinse water bath :	One with overflow. Optional bottom drain can be installed.
Drying container:	12°C-15°C higher that the room temperature.
Programming:	Time to dip the basket in each container. During this time, resting periods and shaking periods. Time to maintain the basket on top of each container after dipping.
Number of programs:	The memory can store up to ten programs
Positions per program:	The basket can go to ten different positions. At each of them the total dipping time, resting and shaking, and drain over the container can be selected.

Mains:	100/240 V, 50/60 Hz, 250 W
Dimensions (LxWxH):	700x 440x400 mm
Weight:	23 Kg

## ORDERING INFORMATION

Basic unit includes one slide basket and four plastic containers with lid.

	Cat.No.
Specify mains required (the Cat. No. may change)	5300
Quick drain system. Optional	5310
Stainless steel container tray (one comes with the basic unit)	5438
Basket for slides (one comes with the basic unit)	5417



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Information



6095R01 May-08



**POLY  
STAINER**



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### Protected electronic

All the electronic circuit and electrical components are built in an elevated bridge. No splashing can damage them.

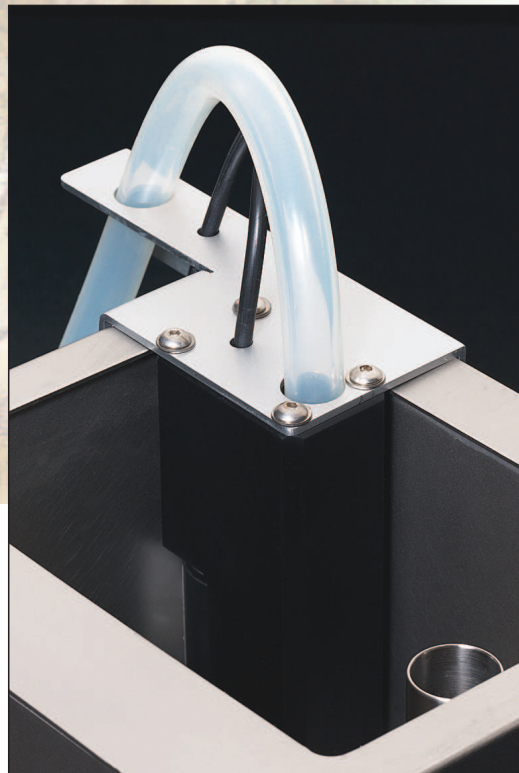


### Removable container tray

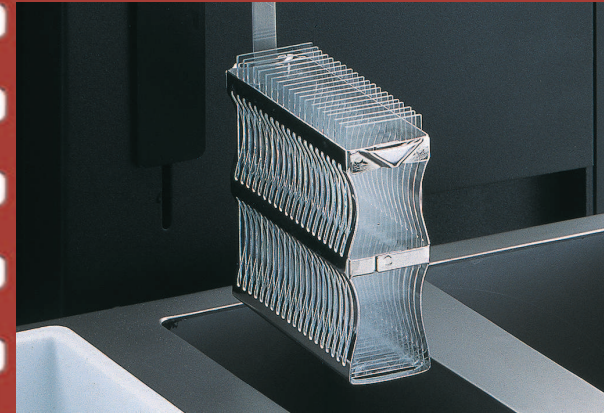
The stainless steel container tray, can be easily removed and replaced without any tool.

### Quick drain system

As optional accessory the quick drain system allows to empty out the water container from the bottom. In the normal situation the water overflows.



Arrange the slides in the basket and hang it on the lift.



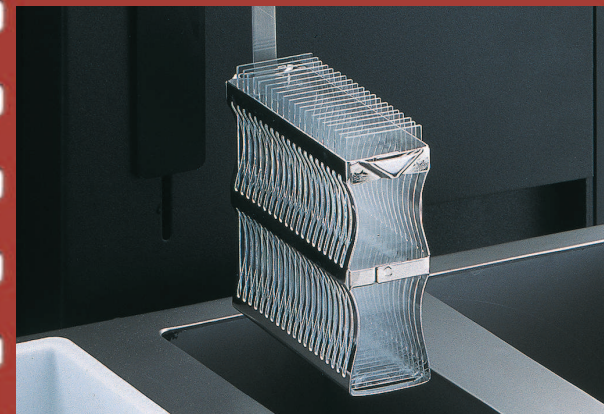
Perform or select a program using the symbolic display/keyboard.



The basket runs automatically to all the selected positions, at the times and shaking required.



Once the program finished, take the basket at the rest position.





## Accessories and Disposables

1. 1000  $\gamma$ -irradiated Microsyringes  
CAT. 90001780
2. 1000  $\gamma$ -irradiated Sample Beakers  
CAT.90001790
3. Plate for 15 cm Petri Dishes  
CAT. 90001715
4. Holder for sample beaker box  
CAT. 90001949
5. Holder for Micro-syringe box  
CAT. 90001950
6. Sampling Holder for Beakers  
CAT. 90001974
7. Barcode reader  
CAT. 90005700



## Technical data

Reproducibility: > 99%

Time for a full cycle: 30 s  
(disposable syringes make disinfection unnecessary)

Spreading modes stored:  
22 spread modes (44 counting those for 15mm Petri plates)

Petri plate diameters:...100 and 150 mm

Minimum step volume: < 10 nl

Maximum pipetted volume: 100  $\mu$ l

Syringe material: Polypropylene

Plunger material: Polyethylene H.D.

Auto checking: Programmed in 6 regions

Touch screen: 5.71 in

Operating system: Windows embedded CE 6.0 R3

External balance connection: Serial RS232 DB9

Printer connection: Serial RS232 DB9

Barcode reader connection: Specific connection for IUL barcode readers

Connection for updates: Ethernet/ USB pendrive

Additional connections for peripherals: 2 x USB Host ports

Dimensions (WxHxD)

51.5 x 42 x 50 cm / 20.3 x 16.5 x 19.7 in

Weight: 20 Kg / 44 lb.

Motion control: Microcontroller regulated stepper motors

Specifications subject to change without notice

For more information please visit us at:

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# EDDYJET 2

Cleaner, faster, better  
Spiral plater

Doc. No. 50007627-01

**iUL**  
[www.iul-inst.com](http://www.iul-inst.com)



## Introduction to spiral plating

Spiral plating is a widely accepted microbiological surface plating technique that was created in the 1970s to **reduce the amount of Petri dishes** used in surface spreads. Time-consuming serial dilutions required in conventional spread plating are avoided. A single spiral spreaded plate spares the inoculation of 3 Petri plates, drastically reducing operation times and materials.

This technique is based on the usage of an Archimedean spiral spread. Volumes poured along a spiral decrease exponentially so that a single plate hosts several sample concentrations distributed across the spiral. Once incubated, plates are read using a specific counting grid.

## Eddy Jet 2 as a leading edge spiral plater

Eddy Jet 2 is an unmatched spiral plater that pushes the outstanding standards of the first EDDY JET even further by adding trendsetting innovations to spiral plating:

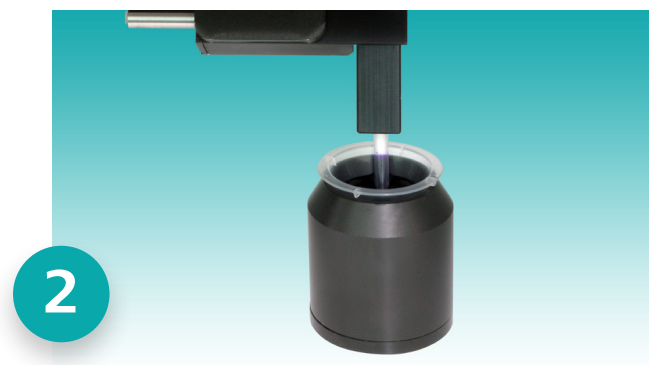
- Its **state of the art connectivity** (featuring an Ethernet connection, 2xUSB ports and 2xRS-232 ports): allow for connection to:
  - a printer: that can print labels and records of the inoculations performed

- a barcode reader: that allows for plate traceability
  - EJ2's **streamlined intuitive software** is commanded from a color touch panel
  - IUL also **improved spread times** in this device.
- EJ2 stands out as the spiral plater with the widest range of spiral distributions: **it can make up to 22 different spiral distributions.**

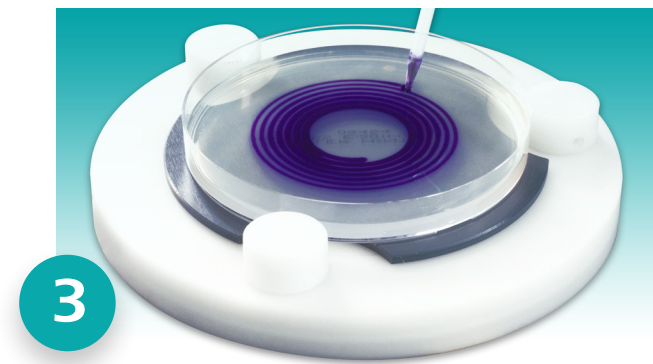
### Eddy Jet 2 Workflow



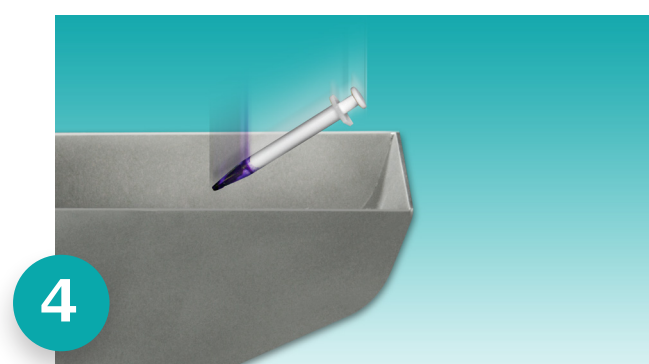
Eddy Jet 2's beak grabs a **brand new sterile syringe**.



The syringe draws in a liquid sample.



As the agar plate spins, the syringe automatically dispenses accurate volumes of sample over the plate drawing a spiral with the loaded sample



Eddy Jet 2 gets rid of the sample-contaminated syringe.



## IUL's patented syringe method

When IUL released Eddy Jet 1, in 1998, a revolutionary approach to spiral plating was achieved by implementing disposable **Gamma-ray sterilized microsyringes** to perform sample spreading.

IUL's **world patented microsyringes** prevent any cross-contamination from taking place making Eddy Jet 2 the spiral spreader with the highest sensitivity.

Also, Gamma-ray micro-syringe sterilization makes cleaning cycles unnecessary, saving large amounts of time.

Unlike other spiral plating devices, Eddy Jet 2 doesn't require for bleach disinfection. Implying that no leftover bleach may affect sample bacteria, avoiding false negative results. Thus, Eddy Jet 2 offers labs the **highest specificity** available in the market.



Exclusive microsyringes that ensure genuine sampling sterility



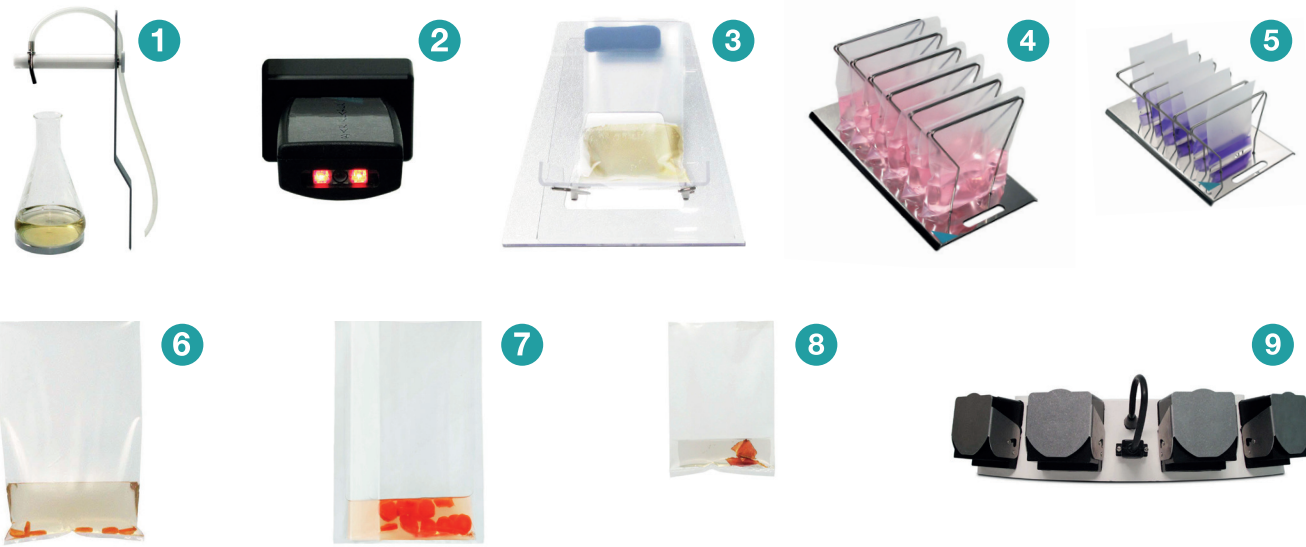
Revolutionary connectivity



Outstanding performance



## Accessories and Disposables



1. Weighing platform and multilevel dilution arm for beakers/flasks  
CAT.90002838  
CAT.90002806
2. Barcode reader and barcode support  
CAT.90005701  
CAT.90002836
3. Weighing bag holder for 80 ml. bags  
CAT.90002885
4. Portabag: Stainless steel holder for six 400 ml bags  
CAT.90002300
5. Portabag: Stainless steel holder for six 80 ml. bags  
CAT.90002380
6. 400 ml.Y-irradiated homogenizer bags  
a. 500 bags (packed in 10 bag packs)  
CAT.900014010  
b. 5000 bags (packed in 10 bag packs)  
CAT.90001428  
c. 500 bags (packed in 50 bag packs)  
CAT.900014050  
d. 5000 bags (packed in 50 bag packs)  
CAT.90005421
7. 400 ml.Y-irradiated homogenizer bags with filter  
a. 500 filter bags (packed in 25 bag packs)  
CAT.900014501  
b. 2000 filter bags (packed in 25 bag packs)  
CAT.90002451  
c. 5000 filter bags (packed in 25 bag packs)  
CAT.90002452
8. 80 ml.Y-irradiated homogenizer bags  
a. 1500 bags (packed in 50 bag packs)  
CAT.90002456  
b. 4500 bags (packed in 50 bag packs)  
CAT.90002457
9. Four pumps device  
CAT. 90002798

## Technical Data

**Weight range:** 2400g (tare included)  
**Display Resolution:** 0.1g  
**Weight inaccuracy:** <1% (for weight  $\geq$  100g)  
**Calibration weight:** 100g to 2000g users configurable (100g steps)  
**Delivery speed:** 950ml/min (tube diameter:5mm).  
**Sample weight resolution:** 0.01g (after stabilization)  
**Dilution inaccuracy:** <1% (for dilution weight  $\geq$  100g) / <2% (for dilution weight  $\geq$ 50g)  
**Dispensing inaccuracy:** <1% (for dispensing weight  $\geq$  100g) / <2% (for dispensing weight  $\geq$ 50g)  
**Dispensing range:** 20g to full weighting range  
**Selectable surface vibration compensation levels:** 0-4  
**Mains:** 100~240ACV 50/60 Hz  
**Power:** 40W  
**Dimensions (WxHxD):** 300x265x325 mm  
**Weight:** 6.5Kg  
**Printer connection:** Serial RS232  
**Printer records include:** Date, Time, Operator ID, Sample ID, Sample Weight, Dilution Factor, Diluent ID, Total Weight, Final Accuracy, Last Calibration Date  
**IUL Barcode reader connection**

For more information please visit us at:  
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# smartdilutor W

Accurate, Traceable, Productive  
Gravimetric diluter



Doc. No. 50007667-03

[www.iul-inst.com](http://www.iul-inst.com)

**IUL**



## Introduction



Initial sample dilution is a key step in the workflow of any microbiology lab.

**Precise gravimetric diluting** is eased by the Smart Dilutor W which automates this process providing a fast and reliable approach to it. Its accurate weight cell and powerful peristaltic pumping combine to streamline this process. Furthermore, it can be used to dispense set volumes.

A sample is initially inserted in a homogenizer bag, next, sample weight is measured with the device's load cell. Last, the device dilutes the sample according to a preset dilution factor. The device also allows to perform accurate liquid dispensing.

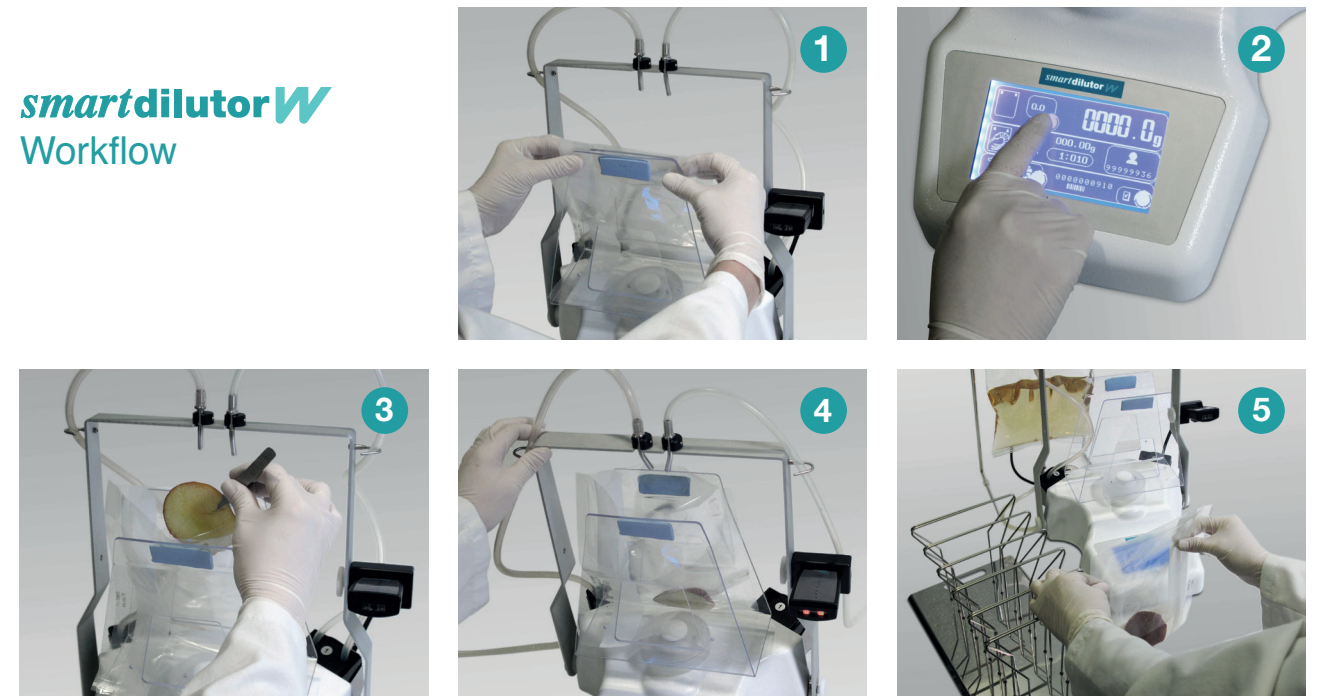
## smartdilutorW's key traits

Smart Dilutor W has been designed to cover all the needs of today's microbiology labs through several key traits:

- Provides sample processing **traceability**:
  - Operator ID
  - Sample ID
  - Dilution ID
- **Simple control** from a touch panel.
- Tubing and parts that contact the diluent can be **quickly disassembled to sterilize them in an autoclave**.
- The device can be connected to:
  - **A printer** (RS-232 DB9 port): that can print records of the dilutions performed.
  - **A barcode reader**: that enables identification of the diluted samples.
  - An external computer (Ethernet): allowing for **connection to a LIMS**.
- Diluent can be pumped from:
  - **Media containing bottles**
  - **Ready to use media bags**
- Can perform accurate liquid **dispensing** when using the dispensing mode.
- Upscalable:
  - Main **1 or 2 pump unit**
  - Optional **4 pump accessory**



## smartdilutorW Workflow



1. A sterile homogenizer bag is placed in the homogenizer bag holder (which serves as a weighing platform).
2. The weight tare is performed.
3. The sample is placed inside the bag.
4. The instrument will then automatically deliver diluent into the bag until a previously preset dilution factor is reached. Dilution factors can be set through any given rational number fraction: numerator (two digits)/ denominator fraction (three digits).
5. A precisely diluted sample is ready for further processing



## Accessories



1. Petri Labeler storage table  
CAT. No. 900011491
2. 5000 label reel set  
CAT. No. 90001394
3. Short stacker  
CAT. No. 900014841

## Technical Data

**Power range:** 100-240 V AC

**Frequency range:** 50/60Hz

**Maximum power:** 25W

**Overvoltage category:** II

**Air temperature:** 5-32°C (41-89,6°F)

**Altitude:** Up to 2000m. (6500Ft.)

**Place of operation:** For indoor use only.

**Pollution level:** 2

**Labeling features:**

**Petri dish dimensions:** Common 90mm Petri dishes

**Label size:** 8 x 30 mm

**Label characteristics:** White coated, calendared, woodfree paper.

**Adhesive characteristics:** General purpose permanent acrylic water based adhesive. The adhesive conforms several regulations certified by ISEGA for direct contact with dry and moist non-fatty foodstuffs.

**Label shelf life:** 2 years, stored at 22°C / 50% RH

**Barcode characteristics:** Simbology code 128

**Barcode size:** 3,8 x 27,7mm (approx.)

Thermal transfer printed ribbon used (Wax/resin):

-REACH/SVHC Free: 1907/2006/EC

-Food contact Approved: 1935/2004/EC

-Heavy metals free: 2002/95/EC, 2002/96/EC, and 2011/65/EC

-California proposition 65

-Halogen Free

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**PETRI LABELER**

Neither more nor less ... an easy and inexpensive system to identify 90 mm Petri dishes.

Barcode Labeling



Doc. No. 50007818

[www.iul-inst.com](http://www.iul-inst.com)

**iUL**



## Product overview



The unit automatically tags barcode labels on the side walls of Petri plates. Operating the unit is as simple as feeding a stack of Petri plates on one end, pushing the “start” button, and collecting labeled plates at the other end. The Petri Labeler labels plate walls, enabling comfortable inspection, reading, and counting of Petri plates.



## BARCODE LABELING



Petri Labeler  
CAT. No. 90005800

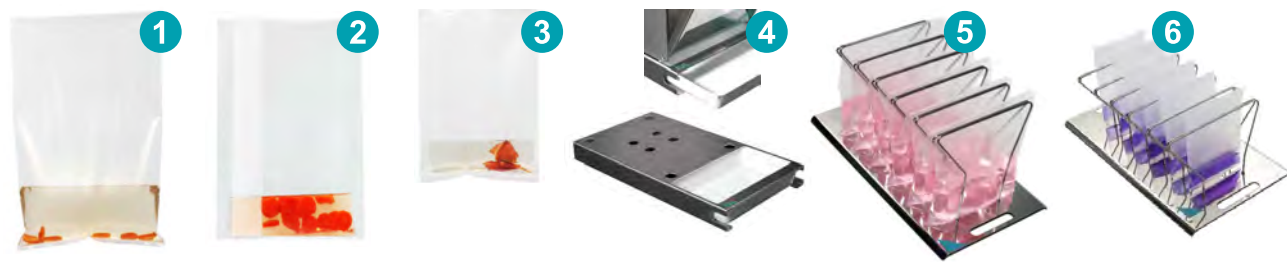
## System highlights

- **Readiness:** Labels come preprinted with a 9 figures number, potential mistakes are avoided.
- **Traceability:** By using a barcode reader, any identified Petri plate can be associated to any sample at any time.
- **Maintain sterility:** During the pairing process, the lid is never removed, it is only slightly displaced to allow the label to be stuck on the side wall of the plate.
- **Flexibility:** Identified Petri plates await being collected, once removed, a new plate is processed. Alternatively, a whole stack of plates can be processed at once, labeled plates can be collected in an optional collecting platform.
- **Adaptability:** It easily accommodates different 90mm Petri dish sizes (e.g. different diameter and/or height).
- **Productivity:** Less than 2 seconds per plate.
- **Friendliness:** Small footprint and silent operation.





## Accessories and Disposables



1. 400 ml. Y-irradiated homogenizer bags,
  - a. 500 pcs packed in 10 bag packs  
**CAT. No. 900014010**
  - b. 5000 pcs packed in 10 bag packs  
**CAT. No. 90001428**
  - c. 500 pcs packed in 50 bag packs  
**CAT. No. 900014050**
  - d. 5000 pcs packed in 50 bag packs  
**CAT. No. 90005421**
2. 400 ml. Y-irradiated homogenizer bags with filter
  - a. 500 pcs packed in 25 bag pack  
**CAT. No. 900014501**
  - b. 2000 pcs packed in 25 bag packs  
**CAT. No. 90002451**
  - c. 5000 pcs packed in 25 bag packs  
**CAT. No. 90002452**
3. 80 ml. Y-irradiated homogenizer bags,
  - a. 1500 pcs packed in 50 bag packs  
**CAT. No. 90002456**
4. Stand and tray for any 400 ml. Masticator model  
**CAT. No. 9000742**
5. Portabag: Stainless steel holder for six 400 ml. bags  
**CAT. No. 90002300**
6. Portabag: Stainless steel holder for six 80 ml. bags  
**CAT. No. 90002380**

## Order and Information

1. Masticator Basic 400 ml.
  - a. 220/240 V 50/60 Hz 50 bags  
**CAT. No. 9000470**
  - b. 100/127 V 50/60 Hz 50 bags  
**CAT. No. 9000471**
2. Masticator Basic Panoramic 400 ml.
  - a. 220/240 V 50/60 Hz 50 bags  
**CAT. No. 9000475**
  - b. 100/127 V 50/60 Hz 50 bags  
**CAT. No. 9000477**
3. Masticator Classic 400 ml.
  - a. 220/240 V 50/60 Hz 50 bags  
**CAT. No. 9000400**
  - b. 100/127 V 50/60 Hz 50 bags  
**CAT. No. 9000401**
4. Masticator Classic Panoramic 400 ml.
  - a. 220/240 V 50/60 Hz 50 bags  
**CAT. No. 9000500**
  - b. 100/127 V 50/60 Hz 50 bags  
**CAT. No. 9000501**
5. Masticator Silver 400 ml.
  - a. 220/230 V 50/60 Hz 50 bags  
**CAT. No. 9000420**
  - b. 100 V 50/60 Hz 50 bags  
**CAT. No. 9000421**
  - c. 110/120 V 50/60 Hz 50 bags  
**CAT. No. 9000461**
6. Masticator Silver Panoramic 400 ml.
  - a. 220/230 V 50/60 Hz 50 bags  
**CAT. No. 9000520**
  - b. 100 V 50/60 Hz 50 bags  
**CAT. No. 9000521**
  - c. 110/120 V 50/60 Hz 50 bags  
**CAT. No. 9000522**
7. MAXICATOR 3500 ml.
  - a. 230/240V 50Hz  
**CAT. No. 90002400**
  - b. 120V 60Hz  
**CAT. No. 90002401**
  - c. 100V 60Hz  
**CAT. No. 90002402**

## Technical Specifications

Model	Silver/ Panoramic (400ml)	Classic/Panoramic (400ml)	Basic/Panoramic (400ml)	Compact (80ml)	MAXICATOR (3500ml)
Motor	Induction Type	Induction Type	Induction Type	DC Type	Induction Type
Motor Speed	500-1500 rpm	1500 rpm	1500 rpm	2400 rpm	650-1400 rpm
Reduction	1:6	1:6	1:6	1:8	1:7.5
Strokes/sec	5-6-7-8	8.5 (50Hz) 10 (60Hz)	8.5 (50Hz) 10 (60Hz)	14	3-4-5-6
Setting	Keyboard/Display	Digital Timer	Digital Timer	Digital Timer	Keyboard/Display
Timer	15/30/60/90/120/ 150/180/210/240s	15-90s	15-90s	15-90s	15/30/60/90/120/ 150/180/210/240s
Mains	230V 50Hz 110V 60Hz	230V 50Hz 110V 60Hz	230V 50Hz 110V 60Hz	230V 50Hz 110V 60Hz	230V 50Hz 110V 60Hz
Power	240W	240W	240W	25W	620W
Dimensions (WxHxD)	24x26x40cm 9.4x10.2x15.7in	24x26x40cm 9.4x10.2x15.7in	24x26x40cm 9.4x10.2x15.7in	15x15x30cm 5.9x5.0x11.8in	44x50x57cm 17.3x19.7x22.4in
Weight	20kg /44lb	17kg /37.5lb	17kg /37.5lb	7kg / 15.4lb	52.5kg/
No. of Paddles	2	2	2	2	4

For more information please visit us at:  
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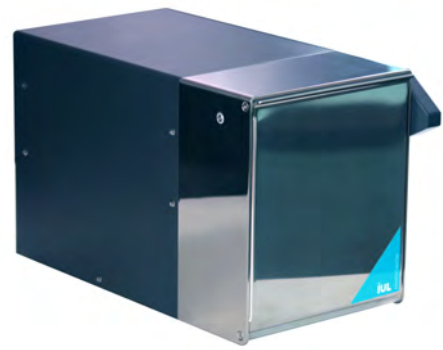
Doc. No. 50007873-00 8/3/15

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## Product overview



**Masticator** paddle blenders enable thorough homogenization of samples while isolating them from any possible contamination. The Masticator's high quality enduring motors ensure a safe and efficient homogenization. Food, cosmetic, pharmaceutical and clinical laboratories that seek for reliable and cross-contamination free homogenization enjoy this solution. **Masticator** blenders disperse samples inside sterile bags with paddles that drive a squashing action while moving the sample from side to side. This key step in sample preparation ensures homogenous distribution of microorganisms throughout the diluent. Several models encompass a wide array of possibilities.



## System highlights

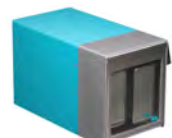
**No Sample Cross Contamination:** Samples are protected of any contamination during homogenization thanks to the use of sterile disposable bags.

**Endurance:** Second to none in endurance, the Masticator's high quality spring system has proven to withstand the most challenging blending procedures. Customers benefit from a 3 year warranty for any masticator blender.

**Ease of use:** Masticators require virtually no maintenance and are easily cleaned when fully removing their front door.



Masticator Basic  
400 ml.



Masticator Basic  
Panoramic  
400 ml.



Masticator Classic  
400 ml.



Masticator Classic  
Panoramic  
400 ml.



Masticator Silver  
400 ml.



Masticator Silver  
Panoramic  
400 ml.

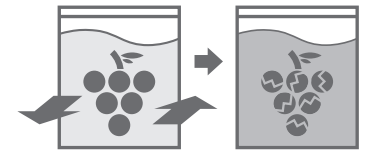


MAXICATOR  
3500 ml.

## Application Scope

**Masticator** lab blenders are used in homogenizations during microbiological testing. Food, cosmetic and pharmaceutical labs like to use 400 ml Masticator blenders, these are meant to homogenize 10 to 40 g (previously diluted) samples. 400 ml bags with and without filters can be used, the former allow to ensure pipetting of debris-free homogenized liquid and are particularly recommended when homogenizations yield sample suspensions with high amounts of large-sized particles. Panoramic and Compact models allow for homogenization monitoring through windows located in their doors. Meanwhile, 80 ml Masticator compact models appeal to clinical and life science labs involved in small sample tissue homogenization (<10g), and to industrial QC labs that process small weight samples (<10g).

### HOMOGENIZATION

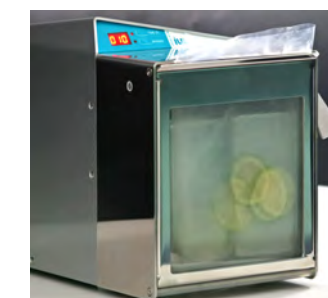


## Workflow



## How to continue processing diluted samples

After dilution, sample-containing bags can be stored in Portabag bagholders, awaiting homogenization in Masticator blenders. Once homogenized, aliquots can be serially diluted using the Bio Dilutor. The Eddy Jet 2 spiral plater is used in order to reduce the amount of plates that are processed, offering a threefold decimal dilution counting range in a single plate. Following incubation, plates are automatically counted and fed with the Plate Handler or automatically counted and manually fed with the Flash&Go. With a 3.5 L volume capacity, the Maxicator completes IUL's paddle blender range, allowing for blending of large composite samples.







CAT. 90008700

# DOT

All that counts  
Colony Counter



Doc. No. 50007910-00

**iUL**

[www.iul-inst.com](http://www.iul-inst.com)



## Ordering Information

CAT. 90008700 DOT Colony Counter with 120mm magnifying glass with light.

CAT. 90008701 DOT Colony Counter with 100mm magnifying glass without light.

## Accessories and Consumables

1. Clickable permanent marker  
CAT. 900011459

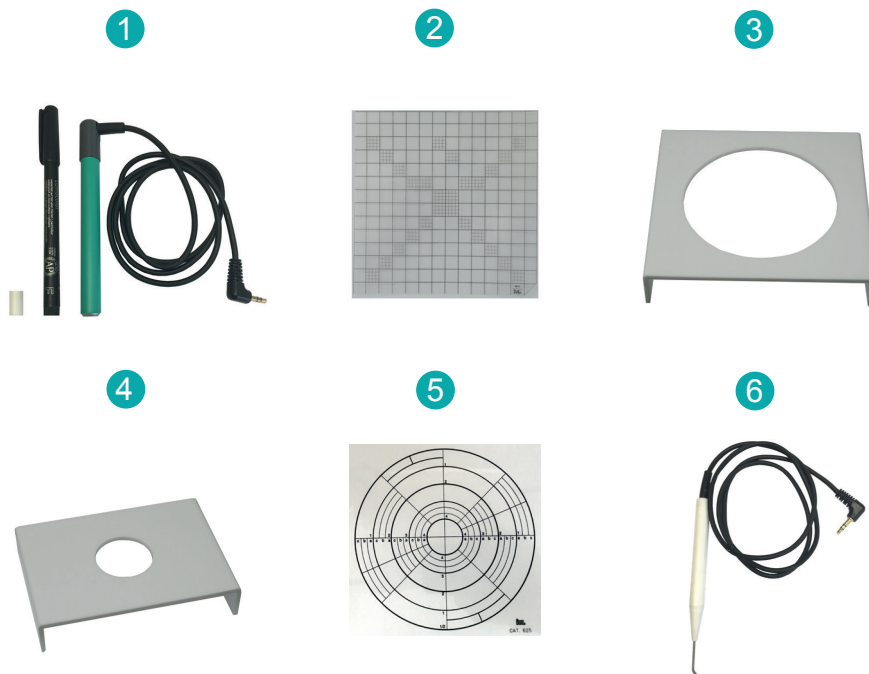
2. Mixer Grid 1/6 cm<sup>2</sup>  
CAT. 9000613

3. 150mm centering device  
CAT. 9000615

4. 60mm centering device  
CAT. 9000606

5. Spiral Grid  
CAT. 9000625

6. Stainless contact pointer  
CAT. 900011460



## Technical data

Counter: 4 digits, 9 mm LED-Display. Maximum count 9999

Inputs: Clickable permanent marker/ Stainless contact pointer (optional).

Outputs: USB Human Interface Device (HID) emulating standard PC keyboard output receivable by PC running keyboard compatible applications (Microsoft Windows®).

USB Virtual COM port (VCP) reserved for IUL, S.A. Technical Service purposes.

Upper light power (12V DC, 500mA)

Magnifying glasses: Biconvex, 100/120 mm Ø, 4 Diopters, DIN x 2

Lightning: Bottom light, 4 selectable intensities, On/Off switching powered from the instrument.

Upper light (depending of the glass magnifier ordered), On/Off switching powered from the instrument.

Specifications subjects to change without notice.

Mains: 100/240 V, 50/60 Hz

Power: 50W

Dimensions (WxDxH):

211x320x335 mm / 8.3x12.6x13.2 in (Cat. No. 90008700)

211x320x395 mm / 8.3x12.6x15.5 in (Cat. No. 90008701)

Weight:

3,2 Kg / 7,0 lb (Cat. No. 90008700)

2,7 Kg / 5,95 lb (Cat. No. 90008701)

For more information please visit us at:

[www.iul-inst.com](http://www.iul-inst.com)

IUL, S.A. Torrent de l'Estadella, 22 - 08030 Barcelona (Spain)  
iul@iul-inst.com · T. +34 93 274 02 32 · F. +34 93 274 01 44







CAT. 9000900

# HALOES CALIPER

Simple, Precise, Easy  
Zone Reader



[www.iul-inst.com](http://www.iul-inst.com)



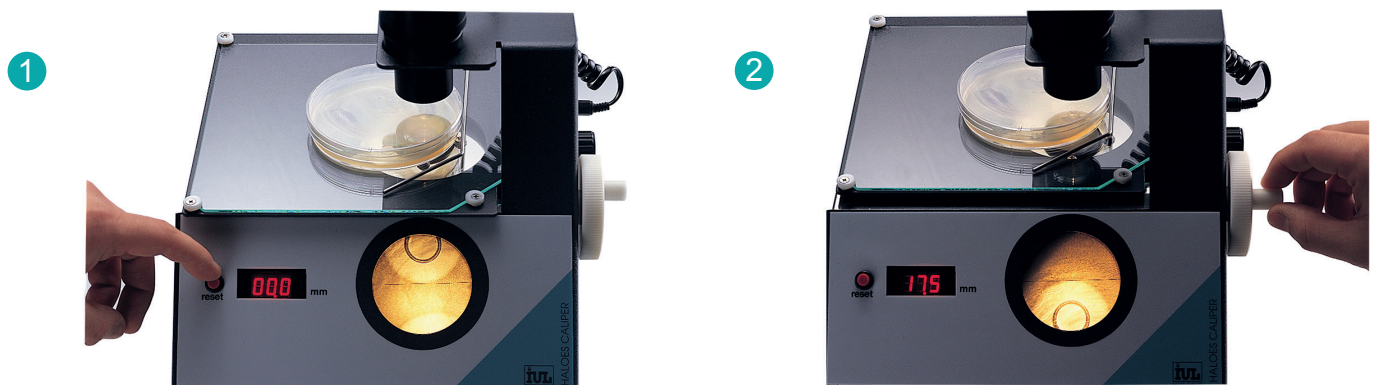
## Ordering Information

CAT. 9000900 HALOES CALIPER Optical instrument for measuring the inhibition zone.

## Product Overview

Making a precise inhibition zone measurement (100 µm resolution) manually can become a challenge. The Haloes Caliper helps to perform this in a simple and precise fashion while avoiding parallax errors in readings. Pharmaceutical and clinical labs involved in inhibition zone measurements benefit from the use of this device. A precision rotating wheel accurately measures inhibition zones while being manually spun. This comes in handy during antibiotic susceptibility testing and antibiotic potency measurements.

## Workflow



## System Highlights

**High resolution:** The Haloes Caliper has a 100 µm resolution.

**No parallax error:** The Haloes Caliper's exclusive screen-lense system avoids missing the ends of the haloes through its unique perpendicular reading technology.

**Clear display of results:** Results will be clearly featured in a digital display.

## Technical data

Magnification: Factor 2.25  
Measuring range: 0-35mm  
Resolution: 0.1mm  
Mains: 100/240V 50/60Hz  
Power: 50W  
Dimensions (WxDxH): 27x23x27cm / 10.6x9.0x10.6 in  
Weight: 3 kg / 6.6 lb

For more information please visit us at:

[www.iul-inst.com](http://www.iul-inst.com)

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## Ordering Information

1. SphereFlash® Colony Counter unit  
(includes Colonies LITE software)

**CAT. 90007000**

2. Colony PRO software

**CAT. 90007001**

3. Halos PRO software

**CAT. 90007002**



## Technical data

Petri dish maximum usable diameter: 90mm

Computer interface: USB 3.0 Type-A socket

Mains AC adaptor Output: 12V DC 3.43A

Power Range: 90~264 VAC

Frequency Range\_ 47~63Hz

Maximum Power:40W

Overvoltage Category: II

Air temperature 15-30°C (59-86°F)

Relative humidity: 10-75% (non-condensing)

Altitude: Up to 2000m (6500ft)

Place of operation: For indoor use only.

Frequency Range: 50-60Hz

Pollution level 2

Dimensions: 288x220x371 mm (1.34x8.66x14.6 in)

Weight: 5,5Kg (12.13 lb)

### Computer Requirements:

- Microsoft Windows® 7, 8.1,10 (x64 platforms).
- 1 free USB 3.0 Port.
- 8 Gigabytes of RAM memory.
- 100 Megabytes of free disk space and 100 Gigabytes for the Database (for 5000 results stored with images).
- FullHD screen (1920x1080px) recommended.
- 24" screen size recommended.
- Microsoft Excel® 2007 or higher, 64 bits to open exported Excel® files.
- A virtual PDF printer to create PDF reports.

## Automatic Colony Counter & Inhibition Halos measurement

World-class software, uniform & reflection-free illumination



Doc. No. 50007950-01

CAT. 90007000  
SphereFlash with Colony LITEsoftware

Specifications subject to change without notice.

For more information visit us at:  
[www.iul-inst.com](http://www.iul-inst.com)

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