



# LABNEWS LABORIMPEX

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BENELUX 1-ST EDITION 2022

NUMBER 4

01 08 2022

## FOCUS ON LIFE SCIENCES LABORATORY EQUIPMENTS & CONSUMABLES

### LABORIMPEX Promotion and New Products & Solutions for Research and IVD Laboratories

Belgian Family Business since 1979 ! We like to thank you all !



**EzDrop μ-volume spectrophotometer**



**Fast PCR**



**EzScope Live Imaging**



**Microscopes & Stereomicroscopes**



**Antigen Retriever Epitope Recovery Unit**



**Digital cameras for microscopy**



**-86° and -150°C Ultra Low Temperature Freezers**



**EXCLUSIVE EMS NIGHTSEA Fluorescence adapters etc....new**



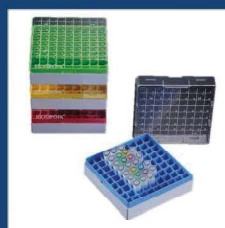
**Refractometers & Polarimeters**



**FFP-2 Masks**



**Microtome blades**



**Cryoboxes & tubes**



**Filter Tips Complete Range**



**Micro Centrifuge Tubes (20.000 RCF)**



**Centrifuge Tubes**



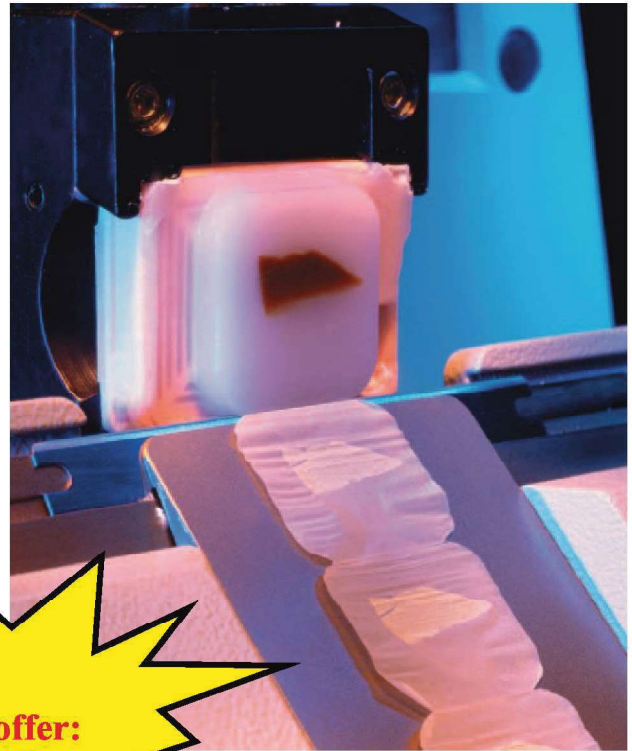
## HISTOLOGY PRODUCTS

**The best microtome blades ever made !**

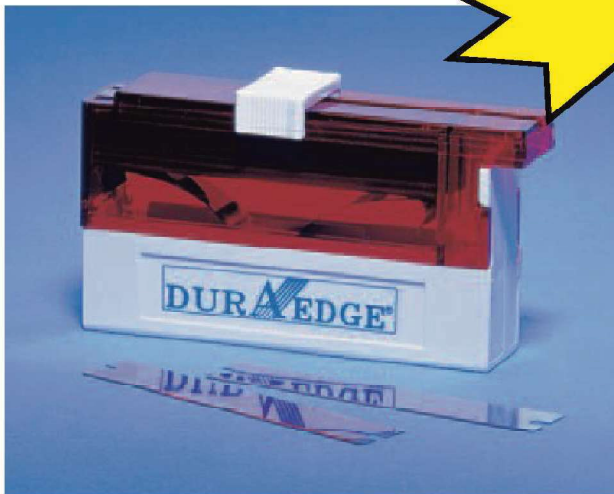
**The right decision when you want precision.**

DURAEDGE® microtome blades are manufactured to the highest standards for sharpness, consistency and durability. Our special proprietary process for hardened stainless steel ensures the quality of each finely honed and polished blade to give you a flaw-free edge.

Capable of sectioning tissue for biopsies in ultra-thin sections, DURAEDGE® blades give you unsurpassed precision in the lab.



**Limited offer:  
4 + 1 FREE**



HIGH PROFILE	LOW PROFILE
Uniform PTFE coating reduces friction, eliminates striations and compression, and requires no break-in period. <b>Product code: 7310</b> <b>Size: 77 x 14 mm</b>	Uniform PTFE coating reduces friction, eliminates striations and compression, and requires no break-in period. <b>Product code: 7223</b> <b>Size: 77 x 8 mm</b>

**Promotional prices include the Delivery Costs if the order is > 300.00 EUR!**

Reference	Description	Price	Promo Price
7310	High profile DURAEDGE® blades 77x14 mm, 50 pcs/pack	-147,00-€	<b>95,00 €</b>
7223	Low profile DURAEDGE® blades 77 x 8 mm, 50 pcs/pack	-147,00-€	<b>95,00 €</b>
<b>PROMOBLADES</b>	Buy 5 packs of DURAEDGE® blades to get an extra 20 % discount on the promotional price. Products can be mixed.	735,00-€	<b>380,00 €</b>

Prices are without VAT and valid until 31 12 2022.



## MINUX® S700A ROTARY MICROTOME

[www.rwdstco.com](http://www.rwdstco.com)

Used both in automatic and semi-automatic mode, S700A paraffin rotary microtome enables you to cut sections precisely, safely and easy-operationally, meanwhile assuring maximum flexibility of use. It displays fantastically ergonomic characteristics for comfortable operation. If working with delicate specimens (example being brain samples) the system will provide reproducible, thin, serial sections of maximum quality time and again.

**Application field:** Histopathology/Anatomical Pathology

### Accurate

- Cross roller bearings and Spindle imported from Germany, combined with a five-phase high-resolution Stepper motor and a Link block made of aviation aluminum, form a high-precision sampling system to ensure slice quality. Original imported Drive motor and encoder ensure stable and smooth automatic slicing.

**Accurate positioning:** Patented technology pointer identification, the sample angle can be adjusted visually, and the positioning is more accurate; the knife holder has a small lateral displacement and high accuracy. The base has a scale, which is convenient for the knife holder to locate and improve the quality of slices.

### Safety

**Operator safety:** The handwheel dual locking system comes with a lock prompt sound, and is equipped with a knife ejector and a knife guard, so that the user can safely replace the sample and blade. After the automatic slicing is completed, the electronic brake keeps the handwheel in a stable state to ensure safe operation

**Intelligent** *Probably the BEST ever made !*

- **Intelligent slicing:** Four automatic slicing modes to meet the needs of different slicing scenes. Cutting window function to ensure the quality of slices while improving the efficiency of automatic slices

**Information tracking:** 5-inch touch screen, history recording system, easy to trace back information and quickly solve problems

### Convenient

- Convenient operation: The imported military-grade side sample injection knob conforms to the ergonomic design, and the operation is more comfortable and coordinated.
- Convenient maintenance: special material waste tank, non-wax, easy to clean.



Model	S700 Semi-Auto	S700A Fully-Auto
Section thickness setting range: 0.50 – 100 µm	√	√
Trimming section thickness setting range: 1 – 800 µm	√	√
Electric sectioning speed: 0-1800µm	√	√
Specimen retraction: 0-250µm	√	√
Specimen feed: 28mm	√	√
Vertical stroke: 70mm	√	√
Specimen orientation with zero position horizontal/vertical rotation: X/Y axis 8°	√	√
Maximum specimen size: 55*50*30mm	√	√
W x D x H: 483mm×553mm×305mm	√	√
Machine weight	28kg	36.4kg
Fully motorized and semi- motorized mode switch		√
Emergency stop button		√
Cut window function		√
Slice speed selection		√
Multiple slice modes		√
Pedals		√

### MINUX® Paraffin Rotary Microtomes

**Delivery and Installation Costs INCLUDED !**

Reference	Description	Price	Promo Price
S700	MINUX® S700 Semi-Automatic Paraffin Rotary Microtome	14.450,00 €	10.950,00 €
S700A	MINUX® S700A Automatic Paraffin Rotary Microtome	19.450,00 €	14.450,00 €

Prices are without VAT and valid until 31 12 2022.



# APTUM 2100 Antigen Retriever

[www.antigen-retriever.com](http://www.antigen-retriever.com)

*The best epitope recovery unit for IHC on formalin-fixed sections. Used by hundreds of research groups and small pathology labs worldwide, with unique features not available in analogous machines.*

*Fully optimised for using the Universal Buffer.*

*Use our other components of the Retriever program, aimed at making IHC fully standard and reproducible.*

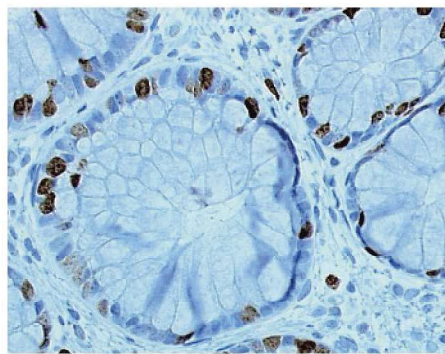
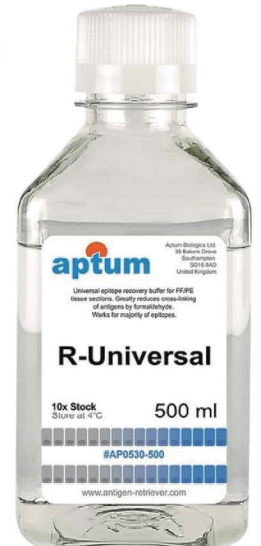
The key word about Retriever is **reproducibility**. Due to fully automatic processing, the stainings are always the same whether they are done within a few hours or a few months apart.

### Advantages:

- Preserves cell & tissue morphology (important in diagnostic pathology)
- Excellent and strong Staining (immediately publishable picture quality)
- Affordable solution for all immunohistochemistry on paraffin sections
- Use up to 6 different buffers in one cycle (6 Slide Racks (108 slides) can be placed in Retriever at once)
- Ease of use
- High reproducibility of the results
- Best quality immunostaining
- Identical processing of all samples
- Bench-top model
- Use a minimal quantity of processing buffer

### Applications:

- Investigative Pathology, where the high quality of staining (a picture may be published!) is required.
- Any lab that is short on technical personnel (any student or post-doc can process slides for the staining without using much time).
- Small routine pathology labs, where a limited number of slides should be processed daily.
- Anyone who uses highly valuable samples, such as tissue arrays or unique tissue samples.
- Simplicity & reliability of the unit ensures the safety of your sample, a high quality antigen unmasking.



## APTUM ® ANTIGEN RETRIEVER & ACCESSORIES

Reference	Description	Price	Promo Price
R2100-EU	2100-Retriever, complete, 230 V	2.649,00 €	2.120,00 €
AP0601-001	Tissue slides HistoBond®+R, Supercharged, 100 slides	85,00 €	57,00 €
AP0602-001	Tissue slides HistoBond®+X, Covalent Binding, 100 slides	93,00 €	61,00 €
AP0601-001	Tissue slides HistoBond®+F, Routine & Cryostat, 100 slides	79,00 €	50,00 €
AP0530-500	<b>R-Universal</b> (R stands for Retriever) buffer <i>for antigen unmasking/epitope recovery</i> on formalin-fixed, paraffin embedded section, 500 ml	295,00 €	191,00 €

Prices are without VAT and valid until 31 12 2022.



## HISTOLOGY PRODUCTS

### MH6616 Electrothermal Microscope Slide Drying Bench, 230V, 50/60Hz, 150W

**Large capacity – holds up to fifty slides!**

The slides can be arranged on the bench in a number of ways: a) Across drying bars, b) Angled from bars and c) Flat without bars

- Temperature range from ambient to 100°C
- Drying bars included for easier slide drying

Slide warmer facilitates tissue mounting and slide staining procedures, and is specifically designed for chemical, biological, and bacteriological laboratories. Dehydrate and set adhesives or perform non-adhesive section mountings on warming deck. Front panel has temperature adjustment dial and two lights — one for when power is on and one for when heater is on.



### MH8524 Electrothermal Paraffin Wax Dispenser

**Key Features**

- 7.5 litre capacity
- Ambient to 70°C operating temperature range
- Silver based anti-microbial coating to inhibit growth of bacteria
- Safety features include over-temperature cut-out at 120°C
- Heated tap to prevent blockages
- Non-drip lever tap
- Maximises bench top space through slimline design



### MH8517 Electrothermal Paraffin Tissue Section Flotation Bath



- Improved heat-up rates and temperature stability for better temperature control
- Reduce glare and improve visibility of tissue sections
- This round bath unit has a temperature range from 30 to 70°C. Adjust temperature easily by simply turning the analog dial. The convenient edge serves as drying surface for processed slides. The black anodized bath surface reduces eye strain by cutting down on glare while improving visibility of tissue sections. Exterior is white powder-coated aluminum, making it easy to keep clean. Safety features include an amber neon light alerting you when heater is on, as well as automatic shut-off.

**Promotional prices include the Delivery and Installation Costs !**

Reference	Description	Price	Promo Price
MH6616	Electrothermal Microscope Slide Drying Bench for 50 slides	-795,00 €	<b>675,00 €</b>
MH8524	Electrothermal Paraffin Wax Dispenser	3.680,00 €	<b>2.950,00 €</b>
MH8517	Electrothermal Paraffin Tissue Section Flotation Bath	-1075,00 €	<b>875,00 €</b>
AZ9241	Lid for MH8517/MH8516 Paraffin Tissue Flotation Bath	-162,00 €	<b>130,00 €</b>

## ULTRA LOW TEMPERATURE CHEST FREEZERS -40° to -86°C

### CFL70086 - Chest ultrafreezer with 700 liters of nominal capacity

Up to 520 boxes of 50 mm height and 52.000 cryotubes capacity



### GENERAL SPECIFICATIONS

- Chest ultrafreezers with 500 or 700 litres of nominal capacity.
- Double circuit cooling system, with independent and hermetic low-noise compressors. In case of failure of one of them, another can maintain the internal temperature at -70 °C. Natural cooling gas HC, biodegradable.
- Digital Plus Controller 5" TOUCH SCREEN and battery to maintain the alarms and temperature register.
- Easy to adjust temperature range you want to achieve.
- Temperature control range from -40°C to -86°C with DATALOGGER, graphic screen and USB data port.
- USB port allowing data download and RS485 modbus port.
- Maximum protection thanks to visual and acoustic alarm signals, used in care of power failure, temperature deviations, probe failure, open door after 10-60 seconds, low battery or filter saturation.
- Insulation of 120 mm by high quality free CFC's polyurethane foam.
- Solid door lock and 4 inner insulation pannels helps to maintain cabinet temperature during openings.
- Stainless steel interior and solid door with closing system.
- CERTIFIED AENOR audited and certified by internationally recognized firm. ISO 9007:2015 (Quality), ISO 14001:2015 (Environmental), OSHAS 18001:2007 (Prevention and Worker Safety)
- Racks capacity: 32 Racks for CFL50086 or 40 Racks for CFL70086 freezer.
- Storage Box Capacity: 520 boxes of 50 mm height, OR 360 boxes of 75 mm OR 280 boxes of 100 mm

ULTRA LOW TEMP. FREEZERS		Delivery and Installation Costs INCLUDED !	
Reference	Description	Price	Promo Price
<b>CFL50086</b>	ULTRA LOW Temperature CHEST Freezer -40°C to -86°C Dual cooling system for double security , 500 L	11.095,00-€	<b>8.495,00 €</b>
<b>CFL70086</b>	ULTRA LOW Temperature CHEST Freezer -40°C to -86°C Dual cooling system for double security , 700 L	12.495,00-€	<b>9.395,00 €</b>

Prices are without VAT and valid until 31 12 2022.

## ULTRA LOW TEMPERATURE CHEST FREEZERS -40° to -86°C

### CFL50086 - Chest ultrafreezer with 500 liters of nominal capacity

Up to 416 boxes of 50 mm height and 41.600 cryotubes capacity



MODEL	CLF50086	CLF70086
Temperature range	-40 / -86	-40 / -86
Gross Capacity (liters)	576	711
Exterior dimensions (mm)	2011x954x1092	2291x954x1092
Interior dimensions (mm)	1190x640x756	1470x640x756
Door opening (mm)	1190x640	1470x640
Insulation thickness (mm)	120	120
Exterior finishing	White plastic coated	White plastic coated
Interior finishing	Stainless steel	Stainless steel
Racks Number	32	40
Door type	Solid	Solid
Lock	Yes	Yes
USB port	Yes	Yes
Datalogger	Yes	Yes
Battery	Yes	Yes
Product temperature simulation probe	No	No
Interior room temperature	Yes	Yes
Controller type	Digital Plus	Digital Plus
Refrigerant type	HC	HC
Electric power (W)	1965	2789
Voltage/Phases/Frequency	230/50	230/50
Weight (kg)	253	311

### DIGITAL PLUS CONTROLLER



#### CONNECTIVITY

Possibility of monitoring via Bluetooth or WIFI.

#### USB

Easy download of data logs and alarms.

#### TOUCH SCREEN

Easy and intuitive. Standard 5". Optional 7" in some models

#### BATTERY

Allows the maintenance of temperature and alarms register in case of a power failure.

#### STABILITY AND UNIFORMITY

Product stability range of approximately  $\pm 1^\circ\text{C}$  and product uniformity temperature less than  $\pm 2^\circ\text{C}$ .

#### VARIETY OF OPTICAL AND ACOUSTIC ALARMS

Temperature rise or fall, power failure, low battery, open door, compressor maintenance, dirty condenser...

#### DATALOGGER

Temperature log and alarm history.



## GENERAL SPECIFICATIONS

Safety as the main objective, our range of ultra-low temperature freezers aims to satisfy the most demanding needs, ensuring long-term and reliable storage of the most sensitive samples.

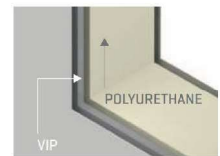
This range of freezers is composed of different models with volumes ranges from 110 to 800 litres in temperature ranges from -40°C to -86°C.

### EQUIPMENT

- Temperature range: -40°C / -86°C.
- Capacity: 110 – 800 litres with up 4 storage levels for more than 50000 microtubes
- Digital Controller 5-inches TFT touch screen, easy and intuitive (7 inches optional)
- Natural HC cooling gas environmentally friendly, CFC's and HCFC's free and biodegradable
- Battery for maintenance the temperature and alarms register in case of power failure for 48H
- USB port integrated for easy and quick data transfer
- Interior shelves and inner doors in stainless Steel
- Double circuit cooling system (except ULF11086)
- Maximum insulation and reduced energy consumption with optimum space usage
- Ergonomic, robust and reliable closing system
- Door open 180°
- High accuracy in temperature control

### VIP INSULATION PANNELS

Maximum insulation for reduced consumption



### ERGONOMIC CLOSING SYSTEM

Single hand operation  
Key lock integrated



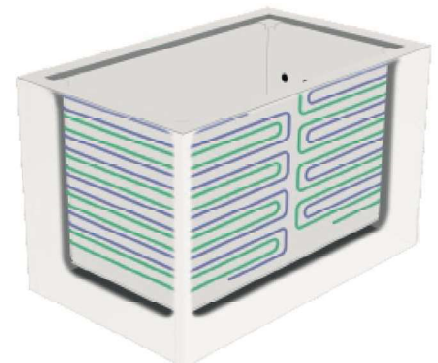
### MEDCARE ULF ULTRAFREEZERS

*Double circuit cooling system*, with independent and lownoise compressors. In case of failure of one of them, the other is able to maintain the internal temperature at -70°C.

### PERFORMANCE & RECOVERY

Ultra freezers is equipped with reliable high-power compressors, having short recovery times after door openings. For even higher sample safety, the ultra low freezers can be equipped with CO2 back-up systems.

— Circuito 1  
— Circuito 1  
— Circuito 2  
— Circuito 2



### DIGITAL PLUS CONTROLLER

Temperature range -40°C/-86°C

PT1000 temperature probe with precision of 0,1°C on the display

Acoustic and visual warning functions in case of:

- Maximum and minimum temperature deviation
- Power failure
- Probe failure
- Open door

Potential-free contact alarm transmission

RS485 remote control interface port

USB port

Datalogger (Historical alarms and temperatures)



## ULF80086 - Vertical ultrafreezer with 800 liters of nominal capacity

Up to 588 boxes of 50 mm height and 58.800 cryotubes capacity



### 3 ACCESS PORTS

Possibility of introducing probes or tubes



### EASY FILTER CHANGE

Washable filters, easy to remove



### ULF50086 - Vertical ultrafreezer with 500 liters of nominal capacity

Up to 336 boxes of 50 mm height and 33.600 cryotubes capacity



MODEL	ULF80086	ULF50086
Temperature range	-40 / -86	-40 / -86
Gross Capacity (liters)	821	515
Exterior dimensions (mm)	1380x975x1997	996x975x1997
Interior dimensions (mm)	1020x619x1300	640x619x1300
Door opening (mm)	1046x1297	666x1297
Insulation tickness (mm)	120 + VIP	120 + VIP
Exterior finishing	White plastic coated galvanized steel	White plastic coated galvanized steel
Interior finishing	Stainless steel	Stainless steel
Shelves Number	3	3
Levels Number	4	4
Shelf size (LxD)	998x598	617x598
Shelves material	Stainless steel	Stainless steel
Racks Number	28	16
Door type	Solid	Solid
Lock	Yes	Yes
USB port	Yes	Yes
Datalogger	Yes	Yes
Battery	Yes	Yes
Product teperature simulation probe	No	No
Interior room temperature probe	Yes	Yes
Controller type	Digital Plus	Digital Plus
Refrigerant type	HC	HC
Electric power (W)	2789	1965
Voltage/Phases/Frecuency	230/50	230/50
Weight (kg)	322	253

## ULF40086 - Vertical ultrafreezer with 400 liters of nominal capacity

Up to 252 boxes of 50 mm height and 25.200 cryotubes capacity



MODEL	ULF40086	ULF11086
Temperature range	-40 / -86	-40 / -86
Gross Capacity (liters)	394	125
Exterior dimensions (mm)	846x975x1997	1092x827x827
Interior dimensions (mm)	490x619x1300	490x481x530
Door opening (mm)	516x1297	517x527
Insulation tickness (mm)	120 + VIP	120
Exterior finishing	White plastic coated galvanized steel	White plastic coated galvanized steel
Interior finishing	Stainless steel	Stainless steel
Shelves Number	3	1
Levels Number	4	2
Shelf size (LxD)	467x597	474x470
Shelves material	Stainless steel	Stainless steel
Racks Number	12	6
Door type	Solid	Solid
Lock	Yes	Yes
USB port	Yes	Yes
Datalogger	Yes	Yes
Battery	Yes	Yes
Product teperature simulation probe	No	No
Interior room temperature probe	Yes	Yes
Controller type	Digital Plus	Digital Plus
Refrigerant type	HC	HC
Electric power (W)	1896	636
Voltage/Phases/Frecuency	230/50	230/50
Weight (kg)	244	110

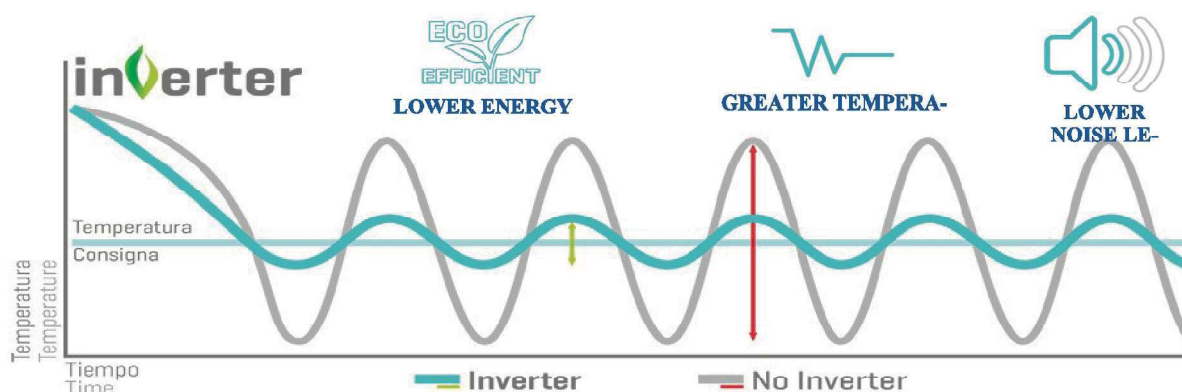
## ULF11086 - Vertical ultrafreezer with 110 liters of nominal capacity

Up to 72 boxes of 50 mm height



## Inverter technology

Using INVERTER technology in our equipment, we achieve greater temperature stability, lower noise level and outstanding energy efficiency.



VERTICAL ULTRALOW -86°C FREEZER		Delivery and Installation Costs INCLUDED !	
Reference	Description	Price	Promo Price
ULF11086	Lab CARE PLUS ULTRA LOW TEMPERATURE VERTICAL FREEZER -40°C to -86°C, with Single Cooling system, 110 L	7.995,00 €	<b>6.650,00 €</b>
ULF40086	Lab CARE PLUS ULTRA LOW TEMPERATURE VERTICAL FREEZER -40°C to -86°C, with DUAL Cooling system, 400 L	11.250,00 €	<b>8.995,00 €</b>
ULF50086	Lab CARE PLUS ULTRA LOW TEMPERATURE VERTICAL FREEZER -40°C to -86°C, with DUAL Cooling system, 500 L	12.850,00 €	<b>9.895,00 €</b>
ULF70086	Lab CARE PLUS ULTRA LOW TEMPERATURE VERTICAL FREEZER -40°C to -86°C, with DUAL Cooling system, 700 L	14.450,00 €	<b>10.995,00 €</b>
ULF80086	Lab CARE PLUS ULTRA LOW TEMPERATURE VERTICAL FREEZER -40°C to -86°C, with DUAL Cooling system, 800 L	16.250,00 €	<b>11.775,00 €</b>
Racks and CO2 BACKUP System: Prices are valid only with the order of one ULTRALOW -86°C FREEZER			
507F01	SLIDING RACK 20 (5x4) BOXES OF 50 MM Height	225,00 €	<b>185,00 €</b>
507F03	SLIDING RACK 16 (4x4) BOXES OF 50 MM Height	225,00 €	<b>185,00 €</b>
507F10	SLIDING RACK 12 (3x4) BOXES OF 95 MM Height	215,00 €	<b>175,00 €</b>
507F14	SLIDING RACK 12 (4x3) BOXES OF 50 MM Height	220,00 €	<b>180,00 €</b>
507F15	SLIDING RACK 6 (2x3) BOXES OF 95 MM Height	220,00 €	<b>180,00 €</b>
507F20	SLIDING RACK 24 (6x4) BOXES OF 50 MM Height	255,00 €	<b>210,00 €</b>
507F21	SLIDING RACK 9 (3x3) BOXES OF 75 MM Height	215,00 €	<b>175,00 €</b>
507F02	SIDE ACCESS RACK 20 (5x4) BOXES OF 50 MM Height	220,00 €	<b>180,00 €</b>
507F04	SIDE ACCESS RACK 16 (4x4) BOXES OF 50 MM Height	175,00 €	<b>145,00 €</b>
507F05	SIDE ACCESS RACK 12 (3x4) BOXES OF 75 MM Height	140,00 €	<b>125,00 €</b>
507F06	SIDE ACCESS RACK 8 (2x4) BOXES OF 95 MM Height	135,00 €	<b>120,00 €</b>
507F07	SIDE ACCESS RACK 8 (2x4) BOXES OF 125 MM Height	135,00 €	<b>120,00 €</b>
507F08	SIDE ACCESS RACK 16 (4x4) BOXES OF 75 MM Height	215,00 €	<b>175,00 €</b>
507F09	SIDE ACCESS RACK 12(3x4) BOXES OF 95 MM Height	175,00 €	<b>145,00 €</b>
507F11	SIDE ACCESS RACK 12 (4x3) BOXES OF 50 MM Height	220,00 €	<b>180,00 €</b>
507F12	SIDE ACCESS RACK 9 (3x3) BOXES OF 75 MM Height	165,00 €	<b>140,00 €</b>
507F13	SIDE ACCESS RACK 6 (2x3) BOXES OF 95 MM Height	130,00 €	<b>110,00 €</b>
507F16	VERTICAL RACK 13 BOXES OF 50 MM Height	165,00 €	<b>140,00 €</b>
507F17	VERTICAL RACK 9 BOXES OF 75 MM Height	125,00 €	<b>105,00 €</b>
507F18	VERTICAL RACK 7 BOXES OF 95 MM Height	125,00 €	<b>105,00 €</b>
507F19	VERTICAL RACK 5 BOXES OF 125 MM Height	105,00 €	<b>90,00 €</b>
Back-up CO2	CO2 Back-up for ULTRA LOW FREEZERS -86°C	2.308,95 €	<b>1750,00 €</b>

Prices are without VAT and valid until 31 12 2022.

# ARCTIKO CRYOGENIC FREEZERS



## ARCTIKO CRYO 170® & ARCTIKO CRYO 230®

**HIGHLY RELIABLE CRYOGENIC FREEZER WITH INDEPENDENT TRUE DUAL TECHNOLOGY PROVIDES THE BEST SECURITY FOR YOUR SAMPLES.**

The cryogenic freezer offers a wide variety of research and long-term storage application for ultra low temperature scientific experiments, preservation of cells, DNA, bone material & bacteria.

The CRYO range features the highly reliable TRUE DUAL™ technology comprised by two independent systems offering double security. In the unlikely event that one cooling system should fail, the second cooling system will maintain the freezer at -130°C.

The CRYO 170 offers a wide variety of research and long-term storage applications for low temperature scientific experiments,

preservation of cells, DNA, bone material, bacteria, etc.

With its superior cooling precision and features, the CRYO 170 is the perfect choice for testing special material, ideal for hospitals, university laboratories, military industry or sanitation stations.



- Visual and acoustic alarms
- Low energy consumption
- Temperature chart recorder
- Porthole for external temperature probe
- Digital display
- Independent TRUE DUAL technologie for double security
- Filterless construction
- Total capacity of 50 mm boxes 9x9 diddividers: 108 pcs
- Total capacity of 75 mm boxes 9x9 diddividers: 72 pcs
- Total capacity of 96 mm boxes 9x9 diddividers: 45 pcs
- Refrigerant mix
- Prepared for LN2 Backup (optional)

### CRYOGENIC FREEZERS - Promotional prices include the Delivery and Installation Costs !

Reference	Description	SPECIAL PRICE
DAI 0198	ARCTIKO CRYO 230® CRYOGENIC FREEZER, 233 Liters, -150°C	<b>30.695,00 €</b>
DAI 0197	ARCTIKO CRYO 170® CRYOGENIC FREEZER, 171 Liters, -150°C	<b>29.495,00 €</b>

Prices are without VAT and valid until 31 12 2022.



## ARCTIKO CRYO 170®



-150°C in  
LESS THAN  
6 HOURS

**171**  
liters

**dB**  
LOW  
NOISE

Dual cooling  
SYSTEM

NON  
CFC

## ARCTIKO CRYO 230®



-150°C in  
LESS THAN  
6 HOURS

**233**  
liters

REMOTE  
ALARM

### MAIN SPECIFICATIONS

#### ARCTIKO 170

#### ARCTIKO 230

Temperature range (°C)	-140/-150	
Capacity (L)	171	233
Exterior dimensions WxDxH (cm)	158x96/113,5x109	176x96/113,5x109
Interior dimensions WxDxH (cm)	50x50x68,5	68x50x68,5
Weight (Kg)	374	391
Insulation (cm)	17	17
Cooling technology	Dual system / static	
Controller model / probe type	TTM-004 / PT100	



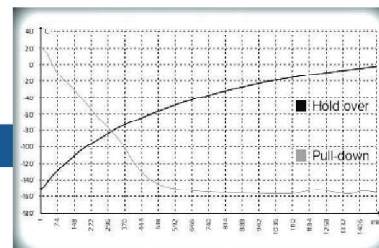
### POWER

Power supply (V)	3 x 400	
Frequency (Hz)	50	
Power consumption (kWh / 24h)	31,7	33,5
AMP (A)	4,8	4,7
Power (Watt)	1929	2021
Horse power	2 x 1.5	



### ALARM FUNCTIONS

Visual / acoustic Alarm	yes
Battery backup for alarms (approx. Hrs)	48
Ajustable high/low temperature alarm	yes



### DATA LOGGING & EXTERNAL CONNECTION

Voltage free contact for remote alarm	yes
Temperature chart recorder	optional
Display type	LED display

### OTHER FEATURES

Vacuum release port	yes
Access port for external probe etc. (in. Diameter (mm))	20
Lock with key	yes
Foam type	polyurethane
Interior cabinet material	stainless steel
Exterior cabinet material	electrogalvanized steel



### SHIPPING

Shipping weight	538	563
Shipping dimensions WxDxH (cm)	192x122x140	210x122x140
Shipping volume (m³)	3,28	3.59

## Automated Cell Counter C100/C100-SE/C100-PRO

- ◆ Reliable cell counting devices with highly intelligent analysis software and excellent microscopy optics structure. It can realize accurate, safe cell-counting, and fluorescence analysis in 9 seconds, which liberates researchers from the heavy work of daily cell counting.
- ◆ General Lab equipment for *Primary/Cancer Cell Research, Immune/Stem cell therapy, Drug Screening*\_etc.
- Bright Field Cell Counting
- Fluorescent Cell Counting
- IQ/OQ Documentation Service
- FDA 21 CFR Part 11 Compliance
- Data Transmission via LAN and Server
- Removable modular FL cubes allow easy switches among various scenes.



### Cell Counting & Identify Dead Cells and Cell Viability

- **Has both bright field cell counting & fluorescence function**
- **Counting time Less than 9 seconds in BF**
- Counting algorithm is accurate-CV <5%
- Cell size: 4 - 60 μm (optimal: 7-60 μm).
- **Auto-focusing & quickly imaging**
- Algorithm recognition scene meets the requirements-cell diameter & concentration
- **Instrument memory: 1000 counting reports & images; export through USB**
- JPG, CVS,PNG, PDF report can be downloaded or printed directly.

Accurately identify clumps of cells  
 Provide Dilution Calculation  
 Concentration: 10<sup>4</sup>—10<sup>7</sup> cells/ml  
 Capacity: one 2-chamber disposable slide



## Automated Counting in less than 9s'

Reference	Description	List price	Special Price
<b>Automated Cell counter, Standard configuration</b>			
<b>C100</b>	Automated cell counter(FL) HS	6500,00-€	<b>4900,00 €</b>
<b>C100-SE</b>	Automated cell counter(Bright Field)	4900,00-€	<b>3700,00 €</b>
<b>C100.PRO</b>	Automated cell counter	6800,00-€	<b>5400,00 €</b>
<b>Optional accessories</b>			
<b>FL Cube-01</b>	(DAPI) Ex: 363-388 nm; Em: 436-484 nm	2200,00-€	<b>1650,00 €</b>
<b>FL Cube-02</b>	(AO/GFP) Ex: 466-493 nm; Em: 516-645 nm	2200,00-€	<b>1650,00 €</b>
<b>FL Cube-03</b>	(PI) Ex: 530-552 nm; Em: 590-645 nm	2200,00-€	<b>1650,00 €</b>
<b>DS-50</b>	Disposable Slides, 50 pcs/box	99,00-€	<b>70,00 €</b>



Prices are without VAT and valid until 31 12 2022.



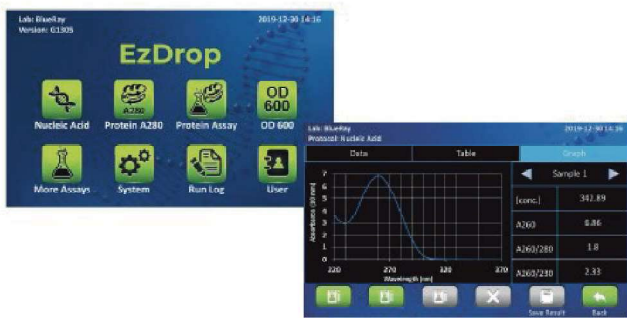
# EzDrop 1000 Micro-Volume Spectrophotometer

## More than Just Speed

- EzDrop 1000 Micro-Volume UV/Vis Spectrophotometer accelerates your research efficiency. It can complete the measurement of a sample concentration speedily in 3 seconds.

EzDrop 1000 provides dynamic full-spectrum 190-1000 nm detection, while the sample window is equipped with Nano hydrophobic coating, ensuring highly accurate results.

Coming with an intuitive operation screen, EzDrop 1000 makes each step fast and simple, helping you complete the measurement effortlessly.



Intuitive Graphic Interface



Sample Window System With Nano Hydrophobic Coating



## Comprehensive Operation Experience

- The built-in intuitive graphic interface is easy to use, and can be operated without extra computing equipment, saving space in the laboratory.
- Multiple built-in functions allow you to measure nucleic acids, proteins, cells and other samples with the touch of a button.
- The automated measuring function raises the speed and convenience of operation.
- The thoughtfully-designed assist light makes up for the lack of ambient light, and minimizes sample placement errors.

## Quality Guaranteed

- A layer of Nano hydrophobic coating on the sample window ensures the formation of sample column.
- The replaceable sample window system greatly reduces the possibility of residual contamination.
- The CV value of absorbance is > 1
- The cushion design on the detection arm reduces impact, which in turn reduces error in experiments.

Optics Information		Software	
Sample volume	1 µl minimum volume	Operating System	Custom Linux based OS
Sample number	1	Registered User Folder No.	> 500 sets
Pathlength	0.5 mm / 0.05 mm	User Folder Password Protection	Yes
Light source	Pulsed Xenon flash lamp	General	
Detector type	2048 element CMOS	Display	7" color LCD with capacitive touch panel
Wavelength range	190 - 1100 nm	Dataport	1 USB Type-A front port for USB flash drive
Bandwidth	1.3 nm	Footprint Dimensions (W x D x H)	206 x 333 x 166 mm
Wavelength accuracy	1 nm	Weight	3.5 kg ( 7.8 lb)
Spectral resolution	1.5 nm (FWHM at Hg 253.7 nm)	Glove Compatibility	All common lab gloves
Detection Range	dsDNA: 2 - 20000 ng/µL; BSA: 0.06- 600 mg/mL	Power Adapter	Input: AC 100-240 V, 50/60 Hz; Output: DC 24 V, 2.08 A
Sample Surface Material of Construction (Lower and Upper)	Stainless steel and quartz window with hydrophobic treatment	Internal Storage	32 GB flash memory
Measurement Time	< 3 sec		

Reference : BRED-1000 EzDrop 1000 Micro-Volume Spectrophotometer List Price : 9.500,00 EUR Promo Price : 6.850,00 EUR

Prices are without VAT and valid until 31 12 2022.

# FFP2 HIGH FILTRATION MASKS

REF : MFFP2

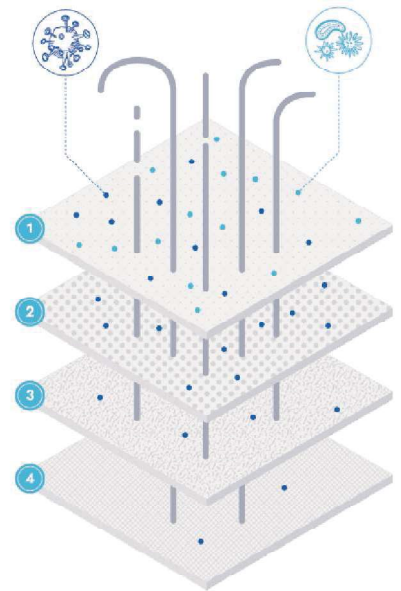
**PROMO PRICE: 0.45 EUR/mask**

The Medicare FFP2 NR particle mask meets the requirements of the European Standard EN149:2001 + A1:2009 "Respiratory protective devices / Particle filtering half masks" for protection against particles and complies with the requirements of the protection class FFP2 in this standard. It therefore offers effective protection against non-volatile solid and liquid particles (dusts, smoke, aerosols, aerosol mist).

The Medicare FFP2 NR has passed the complete European conformity assessment procedure with the EC type examination. The mask carries a CE mark with a four-digit Notified Body identification number and is fully certified. So you can be sure that our masks provide the necessary protection.



- Conform with EN 149:2001 + A1:2009 norms
- CE 2841 marked
- Personal Protective Equipment Regulation: (EU) 2016/425
- Certifications ISO9001:2015 + ISO13485:2016
- High protection against non-volatile solid and liquid particles
- as well as against microorganisms (bacteria and viruses)
- Automatic Absorbing Filter Type Anti-Fog
- Enhanced Respirator
- More Comfortable to wear
- Low Respiratory Resistance
- High Filtration Efficiency
- Safe non-woven soft and skin friendly
- Minimum Purchase: 1 carton of 50 boxes (500 masks)
- **PROMO Price, for one carton of 500 masques: 225,00 EUR (+6% VAT)**



**LOW BREATHING RESISTANCE**

**PFE  $\geq 95\%$**



**HIGH FILTRATION**

**HIGH DURABLE**

**SURFACE SPUNBOND**

## 4 LAYER PROTECTION

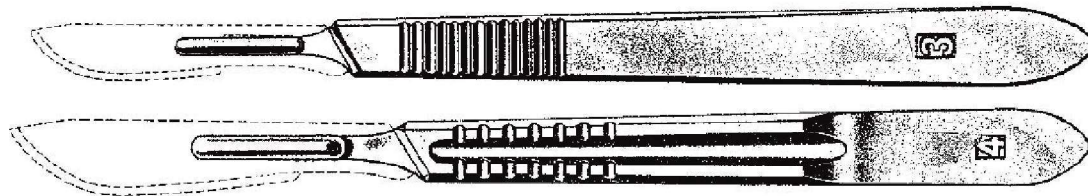
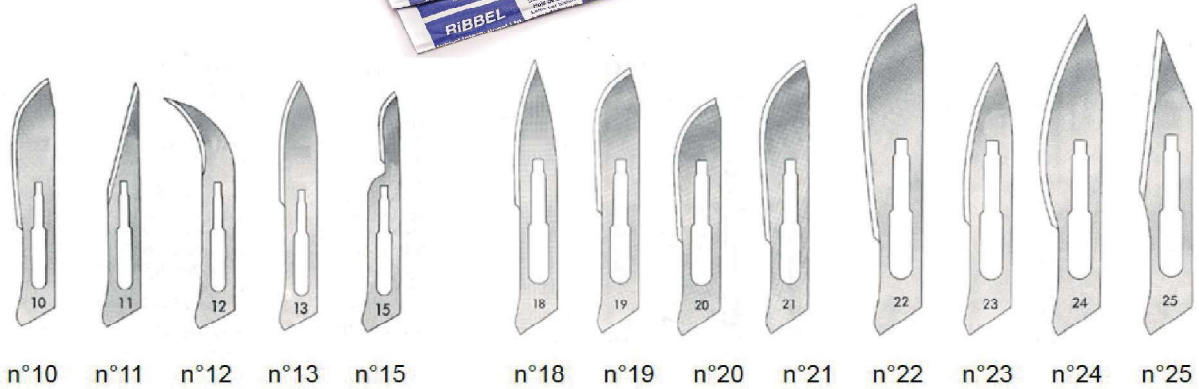
- 1 Non-Woven Fabric  
Blocking large particles or microorganisms.
- 2 Hot Air Cotton Filter  
Enhanced filtering fine particles.
- 3 Melt-Blown Filter  
Polypropylene non-woven fabric.
- 4 Non-Woven Fabric  
Safe non-woven soft and skin-friendly.

Prices are without VAT and valid until 31 12 2022.



## SCALPEL BLADES RIBBEL

- Surgical Blades CARBON STEEL
- Sterilized by Gamma Radiation
- Single use; CE 2460 certified
- Individually packed, sterile



Reference	Description	List price	Special Price
<b>Blades for handle N° 3</b>			
CS420.10	Blades N°10, box of 100 pcs	17,00€	11,50 €
CS420.11	Blades N°11, box of 100 pcs	17,00€	11,50 €
CS420.12	Blades N°12, box of 100 pcs	17,00€	11,50 €
CS420.13	Blades N°13, box of 100 pcs	17,00€	11,50 €
CS420.15	Blades N°15, box of 100 pcs	17,00€	11,50 €
<b>Blades for handle N° 4</b>			
CS410.18	Blades N°18, box of 100 pcs	17,00€	11,50 €
CS410.19	Blades N°19, box of 100 pcs	17,00€	11,50 €
CS410.20	Blades N°20, box of 100 pcs	17,00€	11,50 €
CS410.21	Blades N°21, box of 100 pcs	17,00€	11,50 €
CS410.22	Blades N°22, box of 100 pcs	17,00€	11,50 €
CS410.23	Blades N°23, box of 100 pcs	17,00€	11,50 €
CS410.24	Blades N°24, box of 100 pcs	17,00€	11,50 €
CS410.25	Blades N°25, box of 100 pcs	17,00€	11,50 €
<b>HANDLES for Scalpel Blades, Stainless Steel</b>			
SS400.03	Handle N° 3, 1 pcs	12,00€	8,40 €
SS400.04	Handle N° 4, 1 pcs	12,00€	8,40 €

Prices are without VAT and valid until 31 12 2022.

## ROUTINE LAB MICROSCOPES: B-290 Series

[www.optikamicroscopes.com](http://www.optikamicroscopes.com)

### SUITABLE FOR TEACHERS, EXPERTS & ROUTINE LAB

- The B-290 series incorporates all the experience gathered by OPTIKA Microscopes in the field of light microscopy, adapted specifically for common laboratory applications (schools, higher education & lab).
- Suitable for routine microscopy with brightfield, darkfield, phase contrast and LED fluorescence, designed to last.
- One of the most flexible microscopes in the world !

### BEST VALUE-FOR-MONEY SOLUTION AND VERSATILE USE

- Binocular and trinocular heads with 20mm field number.
- N-PLAN objectives for high numerical apertures and flat images.
- Convenient, rackless moving stage to prevent scrapes

### X-LED<sup>3</sup> – EXCLUSIVE LIGHTING SOURCE

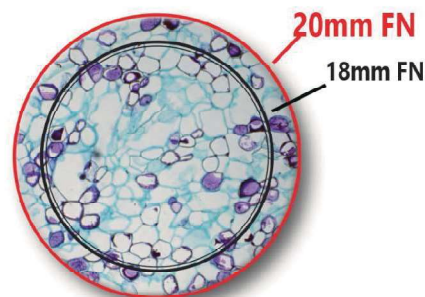
- Powerful and uniform illumination
- Unmatched colour fidelity and brightness of your specimen
- Special technology, able to double the light intensity
- Constant pure-white colour temperature (6.300K)

### CUT ELECTRICITY BILLS BY 90%

- Money & energy saving
- Low power consumption, only 3.6 W
- LED long lifetime (65,000 hours = 25 years at 8 hours/day usage)



Model: B-292



### LARGE SPECIMEN VIEW (20MM FIELD NUMBER)

◆ The F.O.V. (field of view) is based on a comfortable diameter of 20mm. This means that a wide area of the sample can be inspected and allows a natural and easy view, particularly needed in a laboratory environment.

- \* **Observation mode:** Brightfield.
- \* **Head:** Binocular, 30° inclined and 360° rotating. Interpupillary distance 48-75 mm.
- \* **Dioptric adjustment:** On the left eyepiece tube.
- \* **Eyepieces:** WF10x/20 mm, high eye-point and secured by screw.
- \* **Nosepiece:** Quadruple revolving nosepiece, rotation on ball bearings.
- \* **Objectives:** N-PLAN 4x/0.10, N-PLAN 10x/0.25, N-PLAN 40x/0.65, N-PLAN 100x/1.25 (Oil/Water); All with anti-fungus treatment.
- \* **Specimen stage:** Double layer mechanical sliding stage, 150×139 mm, 75×33 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.
- \* **Focusing:** Coaxial coarse & fine focusing mechanism with limit stop to prevent the contact between objective and specimen.
- \* **Condenser:** Abbe N.A. 1.25, with objective-coded iris diaphragm, focusable and centerable.
- \* **Illumination (Fixed Koehler type):** X-LED<sup>3</sup> with white 3.6 W LED (6,300 K) and light intensity control. Multi-plug 100-240Vac/6Vdc external power supply

### CLEAR OBSERVATION WITH 100X OBJECTIVE

- ◆ Students and basic users will enjoy B-290 Series for the clear and sharp images they can get using 100x objective with water, thanks to the extremely bright X-LED<sup>3</sup> light source and the fully centerable Abbe condenser.
- ◆ Forget about the tedious lens cleaning you are used to when using 100x objective: dirt and dust will not affect your objective.

### IOS - INFINITY OPTICAL SYSTEM - LABORATORY GRADE OPTICS - COMPLETE

- Planachromatic optics with more than 90% flat field
- Optimum quality on 20mm field (N-PLAN)
- True infinity optical system
- Optional 20x and 60x objectives available
- Use the polarizing set without any distortion of the final image
- Fully centerable condenser for precise light control



### EASY TRANSPORTATION

- B-290 has a carefully shaped design that gives stability and ease in the transportation.
- Thanks to the handle on the back, it can be safely moved around the classroom or the laboratory.



## LABORATORY MICROSCOPE B-292

### Model: B-292



**Observation mode:** Brightfield.

**Head:** Binocular, 30° inclined and 360° rotating. Interpupillary distance 48-75 mm.

**Dioptric adjustment:** On the left eyepiece tube.

**Eyepieces:** WF10x/20 mm, high eye-point and secured by screw.

**Nosepiece:** Quadruple revolving nosepiece, rotation on ball bearings.

**Objectives:**

N-PLAN 4x/0.10

N-PLAN 10x/0.25

N-PLAN 40x/0.65

N-PLAN 100x/1.25 (Oil/Water)

All with anti-fungus treatment.

**Specimen stage:** Double layer rackless mechanical sliding stage, 150×139 mm, 75×33 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

**Focusing:** Coaxial coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.

**Condenser:** Abbe N.A. 1.25, with objective-coded iris diaphragm, focusable and centerable.

**Illumination (Fixed Koehler type):** X-LED<sup>3</sup> with white 3.6 W LED (6,300 K) and light intensity control. Multi-plug 100-240Vac/6Vdc external power supply.

## LABORATORY MICROSCOPE B-292PLi

**Identical with the model B-292, except the Objectives:**

IOS N-PLAN 4x/0.10

IOS N-PLAN 10x/0.25

IOS N-PLAN 40x/0.65

IOS N-PLAN 100x/1.25 (Oil/Water)

## LABORATORY MICROSCOPE B-293

**Observation mode:** Brightfield.

**Head:** Trinocular (fixed, 50/50), 360° rotating and 30° inclined.

**Interpupillary distance** 48-75 mm.

**Dioptric adjustment:** On the left eyepiece tube.

**Eyepieces:** WF10x/20 mm, high eye-point and secured by screw.

**Nosepiece:** Quadruple revolving nosepiece, rotation on ball bearings.

**Objectives:**

N-PLAN 4x/0.10

N-PLAN 10x/0.25

N-PLAN 40x/0.65

N-PLAN 100x/1.25 (Oil/Water)

All with anti-fungus treatment.

**Specimen stage:** Double layer rackless mechanical sliding stage, 150×139 mm, 75×33 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

**Focusing:** Coaxial coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.

**Condenser:** Abbe N.A. 1.25, with objective-coded iris diaphragm, focusable and centerable.

**Illumination (Fixed Koehler type):** X-LED<sup>3</sup> type with white 3.6 W LED (6,300 K) and light intensity control. Multi-plug 100-240Vac/6Vdc external power supply.



## LABORATORY MICROSCOPE B-293PLi

**Identical with the model B-292, except the Objectives:**

IOS N-PLAN 4x/0.10

IOS N-PLAN 10x/0.25

IOS N-PLAN 40x/0.65

IOS N-PLAN 100x/1.25 (Oil/Water)

## DIGITAL MICROSCOPE WITH CAMERA & TABLET B-290TB



The latest OPTIKA digital microscopes with Windows tablet PC open new microscopy horizons, combining high-end optics with innovative digital technology for microscopic imaging.

B-290TB includes a 3MP camera with a 10.1" Windows tablet. View, capture, analyze and share your images with simplicity and reliability.

3.1 MP Built-in camera and 10.8" Windows tablet PC with N-PLAN objectives, rackless stage and exclusive X-LED<sup>3</sup> for unmatched performance in illumination. Ideal for discussion group with 360° rotating tablet.

**Observation mode:** Brightfield.

**Head:** Binocular, 360° rotating and 30° inclined. Interpupillary distance from 48 to 75 mm; dioptic adjustment on left eyepiece. Built-in 3.1 MP camera.

**Dioptic adjustment:** On the left eyepiece tube.

**Eyepieces:** WF10x/20 mm, high eye-point and secured by screw.

**Nosepiece:** Quadruple revolving nosepiece, rotation on ball bearings.

**Objectives:**

N-PLAN 4x/0.10

N-PLAN 10x/0.25

N-PLAN 40x/0.65

N-PLAN 100x/1.25 (Oil/Water)

All with anti-fungus treatment.

**Specimen stage:** Double layer rackless mechanical sliding stage, 150×139 mm, 75×33 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

**Focusing:** Coaxial coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.

Adjustable tension of coarse focusing knob.

**Condenser:** Abbe N.A. 1.25, with objective-coded iris diaphragm, focusable and centerable.

**Illumination (Fixed Koehler type):** X-LED<sup>3</sup> type with white 3.6 W LED (6,300 K) and light intensity control. Multi-plug 100-240Vac/6Vdc external power supply.

### DETACHABLE TABLET

- Turns the tablet into a PC with the use of the keyboard sold separately
- Intel Quad-Core processor, Windows 10.
- Battery life up to 10 hours.

### SIMULTANEOUS DATA & POWER FEED

Recommended for schools and long operation, as the tablet can be recharged during use.



360°  
Rotating



### ROTATING

A special holder allows to easily attach the tablet to the microscope and freely rotate it.

### INTUITIVE, YET POWERFUL SOFTWARE

Simple and user-friendly, ideal for students and experienced users



## LED FLUORESCENCE MICROSCOPES

### B-292LD1.50

Fluorescence binocular microscopes especially designed for tuberculosis and malaria analysis.

Objective IOS N-PLAN 10x, 20x, 40x and W-PLAN MET 50x.

**Observation mode:** Brightfield.

**Head:** Binocular, 360° rotating and 30° inclined.

Interpupillary distance 48-75mm.

**Dioptic adjustment:** On the left eyepiece tube.

**Eyepieces:** WF 10x/20 mm, high eye-point and secured by a screw.

**Nosepiece:** Quadruple revolving nosepiece, rotation on ball bearings.

**Objectives:** Equipped with binocular head and following objectives:

IOS N-PLAN 10x/0.25 (Cover/No Cover), with anti-fungus treatment

IOS N-PLAN 20x/0.40 (Cover/No Cover), with anti-fungus treatment

IOS N-PLAN 40x/0.65 (Cover/No Cover), with anti-fungus treatment

IOS W-PLAN MET 50x/0.75 (No Cover), with anti-fungus treatment

**Specimen stage:**

Double layer rackless mechanical sliding stage, 150×139 mm, 75×33 mm X-

Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

**Focusing:** Coaxial coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.

**Condenser:** Abbe N.A. 1.25, with objective-coded iris diaphragm, focusable and centerable.

**Brightfield Illumination (Fixed Koehler type):**

X-LED<sup>3</sup> with white 3.6 W LED (6,300 K) and light intensity control.

Multi-plug 100-240Vac/6Vdc external power supply.

**Fluorescence Illumination:** Extra efficiency LED, with light intensity control. Peak wavelength: 465 nm, Power: 3.6W.

**Epi Fluorescence Attachment:** Slider with 3 positions (2 fluorescence, 1 brightfield), with 1 included filterset: Fluorescence B: EX 460-490, DM 505, EM 515LP: Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, etc.



### B-292LD1

Fluorescence binocular microscopes especially designed for tuberculosis and malaria analysis.

Objective IOS N-PLAN 10x, 20x, 40x and W-PLAN 100x (dry).

Identical configuration as for the microscope B-292LD1.50, with the exception of the objective IOS W-PLAN 100x/0.80 (No Cover, Dry), with anti-fungus treatment, that replaces the objective IOS W-PLAN MET 50x/0.75.



### B-293LDI1-50

Fluorescence trinocular microscope especially designed for tuberculosis and malaria analysis.

**Observation mode:** Brightfield.

**Head:** Trinocular, 360° rotating and 30° inclined. Interpupillary distance 48-75mm.

**Dioptic adjustment:** On the left eyepiece tube.

**Eyepieces:** WF 10x/20 mm, high eye-point and secured by a screw.

**Nosepiece:** Quadruple revolving nosepiece, rotation on ball bearings.

**Objectives:** Equipped with binocular head and following objectives:

IOS N-PLAN 10x/0.25 (Cover/No Cover), with anti-fungus treatment

IOS N-PLAN 20x/0.40 (Cover/No Cover), with anti-fungus treatment

IOS N-PLAN 40x/0.65 (Cover/No Cover), with anti-fungus treatment

IOS W-PLAN MET 50x/0.75 (No Cover), with anti-fungus treatment

**Specimen stage:** Double layer rackless mechanical sliding stage, 150×139 mm, 75×33 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

**Focusing:** Coaxial coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.

**Condenser:** Abbe N.A. 1.25, with objective-coded iris diaphragm, focusable and centerable.

**Brightfield Illumination (Fixed Koehler type):** X-LED<sup>3</sup> with white 3.6 W LED (6,300 K) and light intensity control. Multi-plug 100-240Vac/6Vdc external power supply.

**Fluorescence Illumination:** Extra efficiency LED, with light intensity control. Peak wavelength: 465 nm, Power: 3.6W.

**Epi Fluorescence Attachment:** Slider with 3 positions (2 fluorescence, 1 brightfield), with 1 included filterset: Fluorescence B: EX 460-490, DM 505, EM 515LP: Acridine Yellow, Acridine Orange, Auramine, DiO, DTAF, FITC, GFP, YFP, etc.

### B-293LD1

Objective IOS N-PLAN 10x, 20x, 40x and W-PLAN 100x (dry).

Identical configuration as for the microscope B-292LD1.50, with the exception of the objective IOS W-PLAN 100x/0.80 (No Cover, Dry), with anti-fungus treatment, that replaces the objective IOS W-PLAN MET 50x/0.75.



## B-290 Series - Comparison Chart

Model	Head	Eyepieces	Nosepiece	Objectives	Stage	Focusing	Condenser	Illumination
<b>B-292</b>	Binocular 30° inclined 360° rotating	WF 10x/20	Quadruple, reversed	N-PLAN 4x, 10x, 40x, 100x (oil/water)	Double layer, 150x139 mm moving range 75x33 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Abbe N.A. 125, iris diaphragm, focusable and centrable	3.6W X-LED <sup>3</sup> , brightness control, Fixed Koehler
<b>B-292PLi</b>	Binocular 30° inclined 360° rotating	WF 10x/20	Quadruple, reversed	IOS N-PLAN 4x, 10x, 40x, 100x (oil/water)	Double layer, 150x139 mm moving range 75x33 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Abbe N.A. 125, iris diaphragm, focusable and centrable	3.6W X-LED <sup>3</sup> , brightness control, Fixed Koehler
<b>B-293</b>	Trinocular 30° inclined 360° rotating	WF 10x/20	Quadruple, reversed	N-PLAN 4x, 10x, 40x, 100x (oil/water)	Double layer, 150x139 mm moving range 75x33 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Abbe N.A. 125, iris diaphragm, focusable and centrable	3.6W X-LED <sup>3</sup> , brightness control, Fixed Koehler
<b>B-293PLi</b>	Trinocular 30° inclined 360° rotating	WF 10x/20	Quadruple, reversed	IOS N-PLAN 4x, 10x, 40x, 100x (oil/water)	Double layer, 150x139 mm moving range 75x33 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Abbe N.A. 125, iris diaphragm, focusable and centrable	3.6W X-LED <sup>3</sup> , brightness control, Fixed Koehler
<b>B-290TB</b>	Binocular 30° inclined 360° rotating, with tablet	WF 10x/20	Quadruple, reversed	N-PLAN 4x, 10x, 40x, 100x (oil/water)	Double layer, 150x139 mm moving range 75x33 mm, X-axis rackless	Coaxial coarse and fine, limit stop	Abbe N.A. 125, iris diaphragm, focusable and centrable	3.6W X-LED <sup>3</sup> , brightness control, Fixed Koehler
Model	Head	Eyepieces	Nosepiece	Objectives	Stage	Condenser	Fluorescence	Illumination
<b>B-292LD1.50</b>	Trinocular 30° inclined 360° rotating	WF 10x/20	Quadruple, reversed	IOS N-PLAN 10x, 20x, 40x, W-PLAN MET 50x	Double layer, 150x139 mm moving range 75x33 mm, X-axis rackless	Abbe N.A. 125, iris diaphragm, focusable and centrable	3.6W Fluo LED, Blue Filterset	3.6W X-LED <sup>3</sup> , brightness control
<b>B-292LD1</b>	Trinocular 30° inclined 360° rotating	WF 10x/20	Quadruple, reversed	IOS N-PLAN 10x, 20x, 40x, W-PLAN 100x (dry)	Double layer, 150x139 mm moving range 75x33 mm, X-axis rackless	Abbe N.A. 125, iris diaphragm, focusable and centrable	3.6W Fluo LED, Blue Filterset	3.6W X-LED <sup>3</sup> , brightness control
<b>B-293LD1.50</b>	Trinocular 30° inclined 360° rotating	WF 10x/20	Quadruple, reversed	IOS N-PLAN 10x, 20x, 40x, W-PLAN MET 50x	Double layer, 150x139 mm moving range 75x33 mm, X-axis rackless	Abbe N.A. 125, iris diaphragm, focusable and centrable	3.6W Fluo LED, Blue Filterset	3.6W X-LED <sup>3</sup> , brightness control
<b>B-293LD1</b>	Trinocular 30° inclined 360° rotating	WF 10x/20	Quadruple, reversed	IOS N-PLAN 10x, 20x, 40x, W-PLAN 100x (dry)	Double layer, 150x139 mm moving range 75x33 mm, X-axis rackless	Abbe N.A. 125, iris diaphragm, focusable and centrable	3.6W Fluo LED, Blue Filterset	3.6W X-LED <sup>3</sup> , brightness control

### LABORATORY Microscopes, Optika Microscopy: now with -15% DISCOUNT

Reference	Description	Price	Promo Price
<b>B-292</b>	Binocular brightfield microscope, 1000x, PLAN, multi-plug	753,83 €	<b>640,00 €</b>
<b>B-292PLi</b>	Binocular brightfield microscope, 1000x, IOS PLAN, multi-plug	816,75 €	<b>695,00 €</b>
<b>B-293</b>	Trinocular brightfield microscope, 1000x, PLAN, multi-plug	850,63 €	<b>725,00 €</b>
<b>B-293PLi</b>	Trinocular brightfield microscope, 1000x, IOS PLAN, multi-plug	908,71 €	<b>775,00 €</b>
<b>B-290TB</b>	Digital binocular microscope with tablet, 1000x PLAN, multi-plug/EU	1695,21 €	<b>1440,00 €</b>
<b>B-292LD1.50</b>	Binocular LED fluorescence microscope, 500x, IOS PLAN, B filter set, multi-plug	1625,03 €	<b>1380,00 €</b>
<b>B-292LD1</b>	Binocular LED fluorescence microscope, 1000x, IOS PLAN, B filter set, multi-plug	1952,94 €	<b>1660,00 €</b>
<b>B-293LD1.50</b>	Trinocular LED fluorescence microscope, 500x, IOS PLAN, B filter set, multi-plug	1715,78 €	<b>1460,00 €</b>
<b>B-293LD1</b>	Trinocular LED fluorescence microscope, 1000x, IOS PLAN, B filter set, multi-plug	2037,64 €	<b>1730,00 €</b>

Prices are without VAT and valid until 31 12 2022.



## ENTRY-LEVEL MICROSCOPE CAMERAS

### Smart & Affordable Solutions – Not Only For Schools & Education...

A wide range of affordable solutions with diversified live resolution for clear and crisp images to be combined via USB, HDMI or Wi-Fi ensuring smooth and productive teaching experiences on PC, tablets, projectors and other devices. These models can also be used for basic requirements in laboratories and industries. Compatible with any microscope brand, thanks to the projection lens and rings (included in most of the cases).

### BASIC C-B SERIES

Cost-effective, user-friendly cameras with several resolutions (from 1.3 up to 18 MP), CMOS sensor and USB2.0 or USB3.0 connection, recommended for basic/general applications in education and home use especially on moving specimens. Ready to use on any microscope with direct eyepiece tube connection, thanks to the C-mount projection lens and rings included. Connectable also to all the trinocular tube of different brands using the C-mount projection lens included or additional focusable C-Mount adapter. Downloadable, free of charge software (Windows, Mac OS or Linux) is always available to enable the latest updates.

### USB-2 CAMERA MODELS

Simple operation, driver-free

**Crisp images**

USB cable and calibration slide included

- Universal connection to any microscope brand

- Reliable color fidelity

- Downloadable, free of charge software

- Direct eyepiece & trinocular port connection

- C-Mount projection lens and rings included

- OPTIKA ProView & LiteView for Windows



**C-B1**

### C-B1 CAMERA - PROMO PRICE: 170.00 EUR

Cost-effective, user-friendly camera with low resolution (1.3 MP), high frame speed, CMOS sensor and USB2.0 connection, recommended for basic applications in education and home use. Ready to use on any microscope with direct eyepiece tube connection, thanks to the C-mount projection lens and rings included.

Connectable also to all the trinocular tube of different brands using the C-mount projection lens included or additional focusable C-Mount adapter. Downloadable, free of charge software (Windows,

### C-B3A CAMERA - PROMO PRICE: 255.00 EUR

Cost-effective, user-friendly camera with 3.1 MP resolution, CMOS sensor and USB2.0 connection, recommended for basic applications in education and home use.

Ready to use on any microscope with direct eyepiece tube connection, thanks to the C-mount projection lens and rings included. Connectable also to all the trinocular tube of different brands using the C-mount projection lens included or additional focusable C-Mount adapter. Downloadable, free of charge software (Windows, Mac OS or Linux) is always available to enable the latest updates.

### C-B5 CAMERA - PROMO PRICE: 285.00 EUR

Cost-effective, user-friendly camera with 5.1 MP resolution, CMOS sensor and USB2.0 connection, recommended for basic/general applications in education and home use.

Ready to use on any microscope with direct eyepiece tube connection, thanks to the C-mount projection lens and rings included. Connectable also to all the trinocular tube of different brands using the C-mount projection lens included or additional focusable C-Mount adapter.

Downloadable, free of charge software (Windows, Mac OS or

### C-B10+ CAMERA- PROMO PRICE 405.00 EUR

High speed, user-friendly camera with high resolution (10 MP), CMOS sensor and USB3.0 connection, recommended for basic/general applications in education and home use especially on moving specimens.

Ready to use on any microscope with direct eyepiece tube connection, thanks to the C-mount projection lens and rings included. Connectable also to all the trinocular tube of different brands using the C-mount projection lens included or additional focusable C-Mount adapter.

Downloadable, free of charge software (Windows, Mac OS or Linux) is always available to enable the latest updates.



**C-B10+**

**ENTRY-LEVEL MICROSCOPE CAMERAS**

**TABLET - TB SERIES**



Exclusive, powerful **Windows tablet PC** combined to a **CMOS sensor cameras with USB2.0 connection**, recommended for discussion groups and educational purposes thanks to the easy operation, space-saving features and unparalleled comfort.

The unique holding solution for open discussion is 360° rotating and tilting for any adjustment, whilst the large touch screen provides fast, responsive and smooth control. At any time, the tablet PC can be easily detached to be used as a laptop (keyboard sold separately).

Non-stop operation is granted by the simultaneous camera and power connection for long-term use and class/lesson alternation. Connectable also to all the trinocular tube of different brands using the projection lens included or additional focusable C-Mount adapter.

Downloadable, free of charge software is always available to enable the latest updates.connection, thanks to the C-mount projection lens and rings included. Connectable also to all the trinocular tube of different brands using the C-mount projection lens included or additional focusable C-Mount adapter. Downloadable, free of charge software (Windows, Mac OS or Linux) is always available to enable the latest updates.

**WINDOWS TABLET PC WITH USB-2 CAMERAS: TB-3WA (3.1 MP) & TB-5W (5.1 MP) TABLETS**

External digital camera connected to Windows tablet PC  
Easily detachable, can be used as a laptop (keyboard sold separately)  
Simultaneous camera and power connection for long-term operation  
C-mount connection (direct or via dedicated adapter, on any microscope)  
High-resolution, vivid color graphic display  
Downloadable, free of charge software - OPTIKA ProView for Windows

- Large touch screen with fast, responsive and smooth control
- A 2-in-1 solution that you can use like a PC, being Windows-based
- Powerful Intel processor ensuring top performance and speed
- C-mount projection lens and calibration slide included
- Crisp images
- High frame rate
- Reliable color fidelity

Exclusive, powerful **Windows tablet PC** combined to **3.1 MP (TB-3WA) or 5.1 MP camera (TB-5W)**, CMOS sensor, recommended for discussion groups and educational purposes thanks to the easy operation, space-saving features and unparalleled comfort. The unique holding solution for open discussion is 360° rotating and tilting for any adjustment, whilst the large touch screen provides fast, responsive and smooth control.

At any time, the tablet PC can be easily detached to be used as a laptop (keyboard sold separately).

Non-stop operation is granted by the simultaneous camera and power connection for long-term use and class/lesson alternation.

Connectable also to all the trinocular tube of different brands using the projection lens included or additional focusable C-Mount adapter.

Downloadable, free of charge software is always available to enable the latest updates.







## HDMI ESSENTIAL C-HB & C-HBSC

Cameras have become indispensable nowadays and OPTIKA is offering a line of remarkable solutions for digital imaging.

**OPTIKA H Series** is composed by good definition cameras **1080p**, allowing to capture high quality images through a simple connection to TV, monitor or projector via HDMI, representing a reliable and cost-effective solution equipped with the latest technology sensors with **more vivid colors and great contrast for stunning images**.

This series features top-class Sony CMOS sensor with **excellent color reproduction** and significantly **high frame rates**.

Thanks to the **convenience and simplicity**, being extremely intuitive to install and operate, the OPTIKA H Series is the **perfect reponse for various applications in educational and professional fields, industrial quality control and all laboratories**.

### **C-HB CAMERA: 1080p, 2MP CMOS, HDMI multi-plug**

**Cost-effective, entry-level HD camera with 1080p, 2 MP resolution**, Sony CMOS sensor and HDMI connection, recommended for its easy operation, no software installation is required with image capturing on SD card. Allows you to **easily take measurements** of samples or parts of them with a series of tools via software such as lines, angles and many more. Connection into the eyepiece tube or to the trinocular tube of any microscope brand via dedicated adapter (to be purchased separately). Wireless mouse, SD card and built-in software included.



Simple operation, built-in software - Universal connection to any microscope brand - Crisp Full HD images - HDMI cable, mouse and SD card included - High frame rate - Reliable color fidelity - C-mount connection (via dedicated adapter, on any microscope)

### **C-HBSC 11.5" full HD monitor & HD CAMERA: HE Camera, 1080p, 2MP CMOS, HDMI, multi-plug**

**All-in-one, space saving package including 11.5" full HD monitor with tilting feature and user-friendly HD camera with 1080p, 2 MP resolution**, CMOS sensor and HDMI connection, recommended for its easy operation, no software installation is required with image capturing on SD card. Allows you to **easily take measurements** of samples or parts of them with a series of tools via software such as lines, angles and many more.

It also supports excel storage.

Compact footprint, enabling screen tilting and adjustment to ensure correct posture and eliminate fatigue during observation. Connection to the trinocular tube of any microscope brand via dedicated adapter (to be purchased separately).

Wireless mouse, SD card and built-in software included.

- » External digital camera connected to full HD monitor
- » Large screen with fast, responsive and smooth control
- » Tilttable to be adjustable in height
- » Simple operation, built-in software
- » Universal connection to any microscope brand
- » Vivid color graphic display
- » Crisp Full HD images
- » High frame rate
- » Reliable color fidelity
- » C-mount connection (via dedicated adapter, on any microscope)
- » HDMI cable, mouse and SD card included





## Professional Microscope Cameras with USB3.0 connection

Impressive offering compatible with any microscope brand to ensure the highest performance available for routine applications in professional environments, with USB, HDMI, 4K, Wi-Fi connections.

Images and videos of the highest quality and rich in contrast and detail with the top-class SONY sensors, worldwide recognized, ensuring beautiful true-to-life color and delivering incredibly accurate colors just as you see them.

The compact and elegantly designed housing conceals the very latest in camera technology.

A wide range of affordable solutions with diversified live resolution for clear and crisp images to be combined via USB, HDMI or Wi-Fi ensuring smooth and productive teaching experiences on PC, tablets, projectors and other devices.

These models can also being used for basic requirements in laboratories and industries.

Compatible with any microscope brand, thanks to the projection lens and rings (included in most of the cases).

### C-P SERIES:

Professional yet very easy to use cameras with several resolutions (from 3.1 up to 20 MP), large SONY EXMOR CMOS sensor and USB3.0 connection, recommended for general scientific or industrial purposes requiring rapid speed transmission.

The compact and elegantly designed housing conceals the very latest in camera technology.

Images will be of the highest quality and rich in contrast and detail with the top-class SONY sensors, worldwide recognized, ensuring beautiful true-to-life color and delivering incredibly accurate colors just as you see them.

Ideal to be connected to all the trinocular tube of different brands using the focusable C-Mount adapter (to be purchased separately).

Downloadable, free of charge software (Windows, Mac OS or Linux) is always available to enable the latest updates.

Simple operation, driver-free - Top-class SONY EXMOR sensor - Universal connection to any microscope brand - Crisp images - USB3.0 for impressive high frame rate - Incredibly accurate colors - USB cable and calibration slide included - Downloadable, free of charge software - OPTIKA ProView & LiteView for Windows - OPTIKA LiteView for Mac OS or Linux

**C-P3 CAMERA:** P3 Pro camera, 3.1 MP CMOS, USB3.0 - **PROMO PRICE: 550.00 EUR**

**C-P6 CAMERA:** P6 Pro camera, 6.3 MP CMOS, USB3.0 - **PROMO PRICE: 665.00 EUR**

**C-P8 CAMERA:** P8 Pro camera, 8.3 MP CMOS, USB3.0 - **PROMO PRICE: 690.00 EUR**

### FOR SPECIAL APPLICATIONS:

**C-P6FL CAMERA:** P6FL Pro camera, 6 MP CCD, USB3.0 - **PROMO PRICE: 2950.00 EUR**

**Top-class, easy to operate SONY EXVIEW CCD camera with high resolution (6 MP), large sensor and USB3.0 connection, recommended for specific scientific applications especially connected to fluorescence microscopy. Its particular sensitivity is relevantly important in low-light fluorescence, and if small changes in fluorescence need to be detected, determining how clear the image produced is.**



**1800.00  
EUR**

**C-P20CC**

**C-P20CC CAMERA:** Pro Cooled Color camera, 20 MP CMOS, USB3.0 - **PROMO PRICE: 2950.00 EUR**

**Ultra-professional yet intuitive camera with incredibly high resolution (20 MP), cooled large SONY EXMOR CMOS color sensor and USB3.0 connection, recommended for specific scientific applications especially connected to fluorescence microscopy. The cooling system affects sensitivity and therefore image clarity.**

The high resolution makes these models interesting also for morphological imaging, patch clamping and network studies.



**550.00  
EUR**

**C-P3**



**2950.00  
EUR**

**C-P6FL**





## PROFESSIONAL CAMERAS WITH HIGH SENSITIVITY, LOW NOISE AND IMPRESSIVE CAPABILITIES IN SPECIAL APPLICATIONS

### (ON DIFFERENT OBSERVATION METHODS)

When operating in critical conditions, especially related to low light conditions, cameras with high sensor size, high sensitivity and a large dynamic range are necessary to get good results.

Some of the PRO cameras from OPTIKA come with all these features, providing you with the choice of the traditional CCD sensor or the latest technology, scientific-grade CMOS sensor.

In case you are looking for the highest performance and unmatched quality, a Peltier-cooled camera is what is needed, preferably a monochromatic one.

**C-P20CM CAMERA:** P20CM Pro Cooled Monochromatic camera  
20 MP CMOS, USB3.0 - **PROMO PRICE: 2130.00 EUR**

Ultra-professional yet intuitive camera with **incredibly high resolution (20 MP)**, cooled large **SONY EXMOR CMOS monochrome** sensor and **USB3.0 connection**, recommended for specific scientific applications especially connected to fluorescence microscopy. The cooling system affects sensitivity and therefore image clarity.

**The monochrome sensor makes it perfect for fluorescence imaging.**

The high resolution makes these models interesting also for morphological imaging, patch clamping and network studies.

The compact and elegantly designed housing conceals the very latest in camera technology.

Images will be of the highest quality and rich in contrast and detail with the top-class SONY sensors, worldwide recognized, ensuring beautiful true-to-life color and delivering incredibly accurate colors just as you see them.

Ideal to be connected to all the trinocular tube of different brands using the focusable C-Mount adapter (to be purchased separately).

Downloadable, free of charge software (Windows, Mac OS or Linux) is always available to enable the latest updates.



MICROSCOPE CAMERAS			
Reference	Description	Price	Promo Price
C-B1	B1 camera, 1.3 MP CMOS, USB2.0	200,20€	170,00 €
C-B3	B3 camera, 3.1 MP CMOS, USB2.0	300,30€	255,00 €
C-B5	B5 camera, 5.1 MP CMOS, USB2.0	338,80€	285,00 €
C-B10+	B10+ camera, 10 MP CMOS, USB3.0	475,20€	405,00 €
TB-3WA	Windows tablet PC with B3 camera, 3.1 MP CMOS, USB2.0, EU	996,60€	885,00 €
TB-5W	Windows tablet PC with B5 camera, 5.1 MP CMOS, USB2.0, EU	1042,80€	895,00 €
C-HB	HB camera, 1080p, 2MP, CMOS, HDMI, multi-plug	314,60€	275,00 €
C-HBSC	HB camera, 1080p, 2MP, CMOS, HDMI, with screen, multi-plug	854,70€	725,00 €
C-P3	P3 Pro camera, 3.1 MP CMOS, USB3.0	650,10€	550,00 €
C-P6	P6 Pro camera, 6.3 MP CMOS, USB3.0	779,90€	665,00 €
C-P8	P8 Pro camera, 8.3 MP CMOS, USB3.0	811,80€	690,00 €
C-P6FL	P6FL Pro camera, 6 MP CCD, USB3.0	3460,60€	2950,00 €
C-P20CC	P20CC Pro Cooled Color camera, 20 MP CMOS, USB3.0	2120,80€	1800,00 €
C-P20CM	P20CM Pro Cooled Monochrome camera, 20 MP CMOS, USB3.0	2505,80€	2130,00 €

Prices are without VAT and valid until 31 12 2022.

# ROUTINE LAB INVERTED MICROSCOPES: IM-3 Series

[www.optikamicroscopes.com](http://www.optikamicroscopes.com)

- Inverted microscopes are useful for observing living cells or organisms at the bottom of a large container (e.g., a tissue culture flask) under more natural conditions than on a glass slide, as is the case with a conventional microscope.
- IM-3 Series includes a version for simultaneously brightfield and phase contrast method, engineered and designed to be your ideal solution for **fast and reliable routine inspections**.
- The glass stage surface allows an optimal visual access to the objective turret. A **particularly simple and ingenious optical design** allows stable alignments and smooth and accurate movements.

Model: IM-3



## INTUITIVE, EASY USE FOR ALL LEVELS OF EXPERIENCE

- » Ergonomic controls for fast and efficient investigations
- » Excellent optics with high numerical aperture for brilliant images
- » Compact footprint to save space

## FAST, EFFICIENT INVESTIGATIONS

- » Best-in-class LED illumination
- » Easy to use aperture diaphragm to adjust your brightfield view
- » Bright images also with light-demanding techniques as phase contrast

**Observation mode:** Brightfield, phase contrast.  
**Head:** Trinocular (2-position 100/0, 50/50), 45° inclined.  
**Interpupillary distance:** Adjustable between 50 and 75 mm.  
**Dioptric adjustment:** On the left eyepiece tube.  
**Eyepieces:** WF10x/22 mm, high eye-point and with rubber cups.  
**Nosepiece:** Quintuple revolving nosepiece, rotation on ball bearings.

Model: IM-3FL4



◆ Advanced inverted microscope for brightfield and fluorescence observations with Semi-Apo IOS LWD U-PLAN F objectives to enhance the visibility of the sample and increase the overall contrast.

◆ The HBO fluorescence illuminator provides an outstanding flexibility of use, standing the blue and green filter sets (supplied as standard) for Auramine, FITC, GFP and YFP (with blue filter set) plus Rhodamine, Texas Red and TRITC (with the green one), yet giving the possibility to combine any other specific filtersets for future upgrade (violet and UV filter sets available, optional).

◆ Transmitted light through the exclusive X-LED<sup>8</sup> to ensure great-looking, rich and high-quality specimen view.

**Observation mode:** Brightfield, HBO fluorescence  
**Epi-illumination and filter:** HBO 100 W high pressure mercury lamp, 4-position filter holder, blue & green included.  
**Head:** Trinocular (2-position 100/0, 0/100), 45° inclined.  
**Interpupillary distance:** Adjustable between 50 and 75 mm.  
**Dioptric adjustment:** On the left eyepiece tube.  
**Eyepieces:** WF10x/22 mm, high eye-point and with rubber cups.  
**Nosepiece:** Quintuple revolving nosepiece, rotation on ball bearings.

## INVERTED MICROSCOPES IM-3 Series, Optika Microscopy: now with -15% DISCOUNT

Reference	Description	Price	Promo Price
IM-3	Inverted phase contrast microscope for transmitted brightfield and phase contrast observations with a set of 3 IOS LWD W-PLAN PH objectives (10x, 20x and 40x), multi-plug	2775,30 €	2360,00 €
IM-3F	Routine Inverted HBO fluorescence microscope for transmitted brightfield, phase contrast and fluorescence observations with IOS LWD W-PLAN objectives (4x, 10x, 20x, 40x), multi-plug	7723,10 €	6565,00 €
IM-3FL4	Advanced Inverted HBO fluorescence microscope for brightfield and fluorescence observations, with Semi-Apo IOS LWD U-PLAN F objectives (10x, 20x, 40x), multi-plug	11051,70 €	9395,00 €

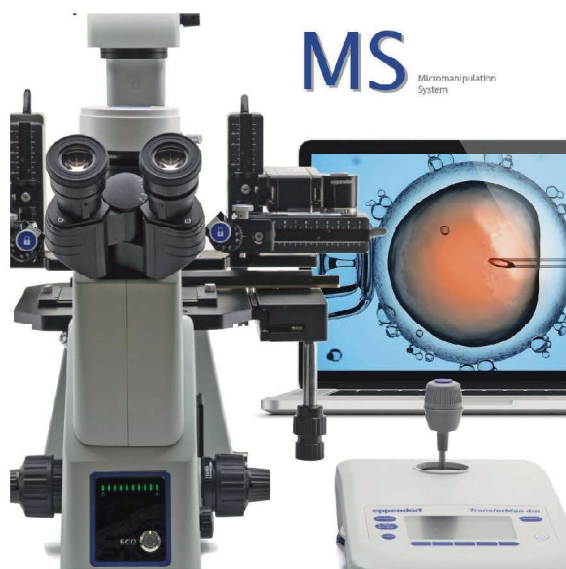
Prices are without VAT and valid until 31 12 2022.

## ROUTINE & RESEARCH LAB INVERTED MICROSCOPES: IM-5 Series

[www.optikamicroscopes.com](http://www.optikamicroscopes.com)

- OPTIKA IM-5 is a new inverted research microscope producing brilliant images for the examination of **living cells, organisms and several other specimens** in large flasks, combining brightfield, darkfield and phase contrast techniques for **the most demanding users**.
- This inverted research microscope drives to new horizons providing Köhler condenser, ergonomic handy controls and significant unique features, such as the highest F.O.V. available on an inverted microscope (F.N. 24 mm).
- IM-5 is freely configurable in terms of objectives, by choosing among:
  - IOS LWD W-PLAN (Plan-Achromatic LWD for brightfield, F.N. 22)
  - IOS LWD W-PLAN PH (Plan-Achromatic LWD for phase contrast, F.N. 22)
  - IOS LWD U-PLAN F (Semi-Apochromatic LWD for brightfield, F.N. 25)
  - IOS LWD U-PLAN F PH (Semi-Apochromatic LWD for phase contrast, F.N. 25)
- The **F.O.V.** (field of view) of IM-5 Series is based on a very comfortable diameter of 24mm, being the largest available on the market on its category. A natural and easy view is ensured, especially to view a bigger area and inspect the specimen much faster.
- IM-5 means extreme flexibility. In fact, brightfield, phase contrast and darkfield techniques can be used at any time, to highlight different aspects of your specimen.
- IM-5 can be customized by choosing the most suitable objectives, in terms of magnification and type, to meet the several needs of users. Objectives are IOS LWD W-PLAN and IOS LWD W-PLAN PH (phase contrast). Or you can choose IOS LWD U-PLAN F and IOS LWD U-PLAN F PH (phase contrast), representing the state-of-the-art fluorite lenses that deliver excellent performance in fluorescence and field flatness up to F.N. 25.

Model: IM-5



### MS – MICROMANIPULATION SYSTEM: A SOLUTION TO INFERTILITY

◆ Microscopes are increasingly used to observe molecular events, as well as cell components, and this is best done in real-time or by using time lapse footage of the same cells – so called live cell imaging. PMA demands a high level of skill and careful manipulation of cells under a microscope. An important determining factor to the success of this procedure is the performance of the microscope and manipulator.

By combining an Inverted microscope OPTIKA IM-5 with an Eppendorf Micromanipulation system, the user has the perfect tool for PMA offering high optical performance and a reliable micromanipulator ensuring a perfect working environment.

### STI – OBSERVING A MICROSCOPIC “LIVING WORLD”

The live cell imaging microscopy requires a very specialised instrumental set-up in order to track movements of molecules or organelles inside the cell or on the membrane.

These movements are easily missed if they are not followed closely within the same cell. That's why OPTIKA has combined the suitable modular systems for carrying out live cell imaging on any cell, tissue or whole organism culture.

### FUNCTIONAL KÖHLER CONDENSER

The fully adjustable Köhler condenser can be rotated out of the optical path, extending the working distance allowing the inspection of voluminous sample vessels.

### PANEL WITH LED ILLUMINATION INDICATOR AND ECO FUNCTION

IM-5 ensures significant repeatability since the level of light intensity set can be seen at any time from the frontal panel in order to reproduce the same conditions. “ECO” button makes the microscope more environmentally sensitive, with automatic switch-off after 20 minutes inactivity.

INVERTED MICROSCOPES IM-5 Series, Optika Microscopy: <b>now with -15% DISCOUNT</b>			
Reference	Description	Price	Promo Price
IM-5	Inverted phase contrast microscope, IOS, w/o objectives, EU	4356.00 €	<b>3700.00 €</b>
IM-5FLD	Inverted LED fluorescence/phase contrast microscope, IOS, w/o objectives, UV, B & G filter set, EU	11187.00 €	<b>9500.00 €</b>
IM-5MET	Inverted bright, darkfield metallurgical microscope, DIC ready, IOS, w/o objectives, EU	7628.50 €	<b>6485.00 €</b>

Prices are without VAT and valid until 31 12 2022.

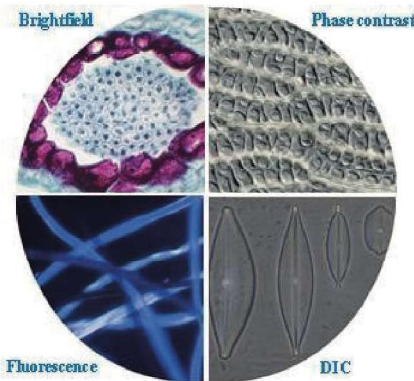
## RESEARCH LAB INVERTED MICROSCOPE: IM-7 MICROSCOPE

[www.optikamicroscopes.com](http://www.optikamicroscopes.com)

- **IM-7** represents the best of what Optika dedicates to the world of research. This model was created to meet all the needs related to research in life science and designed to be complemented by a series of packages dedicated to more advanced individual applications. For all intents and purposes, **IM-7** is to be considered as an inverted imaging platform, due to its high expandability and state-of-the-art quality.
- Top-level of optical equipment among our product range provides a sharp and clear view in any situation, while top-level mechanical design offers sturdiness and long lifetime.

### BRIGHTFIELD

- Transmitted brightfield illumination is one of the most commonly used observation method in optical microscopy, and is ideal for fixed, stained specimens or other types of samples having high natural absorption of visible light. **IM-7** is fitted with high-efficiency LED brightfield illuminator, for the best outcome when using this technique.



### DIC

Differential Interference Contrast (DIC) is a microscopy technique that introduces contrast to images of specimens which have little or no contrast when observed using brightfield microscopy. The images produced using DIC have a pseudo 3D-effect, making the technique ideal for many applications. DIC produces high resolution images with good contrast. It is best for observing unstained samples.

### FLUORESCENCE

The fluorescence microscopy is the most demanding technique in biology and biomedical sciences, as well as in materials science. This method is capable to study organic and inorganic samples thanks to primary fluorescence (auto-fluorescence) or secondary (staining and labelling

with fluorochromes). **IM-7** is tailored for applications in research, clinical and pharmaceutical diagnostic field. Fluorescence illuminators available as mercury lamp.

### PHASE CONTRAST

- Phase-contrast microscopy is a particular technique applied in transparent, non-stainable, samples like culture of living cells, microorganisms, lithographic patterns, latex dispersions, fibers, asbestos and subcellular particles. It reveals many cellular structures that are not visible with a simple brightfield microscope.

**Optical system:** Infinity corrected.

**Head:** Type: Trinocular (Siedentopf); Inclination 45°; Interpupillary distance 47-78 mm; Tube inner diameter 30 mm; Built-in Bertrand lens.

**Photo tubes:**

Trino Port/Binocular: 100/0 ; 50/50 ; 0/100; Left Side Port/Binocular: 100/0 ; 0/100.; Right Side Port/Binocular: 100/0; 20/80.

**Eyepieces:**

PLAN WF10x/25 mm, high eyepoint and with built-in rubber cups; focusable.

**Nosepiece:**

Sextuple ball bearings revolving nosepiece, reversed; DIC slots for all positions.

**Objectives:**

Infinity corrected; 60 mm parfocal distance; All with anti-fungus treatment; Selectable according to customer's preferences (see objective table).

**Magnification changer:**

1x, 1.5x

**Transmitted illumination (Full Koehler):**

X-LED10; 10W LED, high efficiency, 6000K; Brightness control; 65.000-hour lifetime.

**Specimen stage:**

340x230 mm, three-layers mechanical stage; 130x85 mm moving range; Moving mechanism: Rack and pinion (flexible knob); Holder for Petri dish, 160x110 mm; Holder for Terasaki plate (96 well); Holder for 1 slide. Anti-scratch painting.

**Focusing:**

Coaxial coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen; Adjustable tension of coarse focusing knob; 10 mm coarse total travel; Coarse travel per single rotation: 2 mm; Fine travel per single rotation: 0.2 mm; Fine graduations: 100; Fine resolution: 2 µm.

**Condenser:**

Koehler type, 6-position, focusable, centrabale; N.A. 0.55; Iris diaphragm; Phase contrast positions: 10x PH, 20x PH, 40x PH (rings included); DIC positions: DIC1 (10x), DIC2 (20x, 40x, 60x) (prisms not included); 26 mm working distance.

**Incident illumination:**

Upgradable to Incident Fluorescence illumination through the purchase of the components indicated in the fluorescence package table.

**Differential Interference Contrast (DIC)**

Upgradable to DIC through the purchase of the components indicated in the DIC package table.

### INVERTED MICROSCOPES IM-7 Series, Optika Microscopy: now with -15% DISCOUNT

Reference	Description	Price	Promo Price
IM-7	Inverted research microscope, IOS	14.979,80 €	12.735,00 €

Prices are without VAT and valid until 31 12 2022.

## RESEARCH STEREOMICROSCOPE: SZR-180

[www.optikamicroscopes.com](http://www.optikamicroscopes.com)

The **SZR-180** is the top-of-the-range stereo zoom microscope dedicated to the world of research. With a wide magnification range and high optical resolution combined with effective ergonomics, the SZR-180 is the perfect companion in advanced research. The 18:1 zoom allows you to observe a wide range of samples, from single cells to entire microorganisms.



### 18:1 ZOOM RATIO

The SZR-180 with its 18:1 zoom ratio puts it at the top of its class. The wide range of magnifications available (7.5x-135x), coupled with a precise click-stop mechanism for working with reproducible zoom settings, makes it ideal for both low-magnification observation and high-magnification screening and observation of small cell structures.



### PLAN APO 1x OBJECTIVE

The Plan APO 1x apochromatic main objective provides high-resolution images at both low and high magnifications, making it ideal for observing and capturing images of the smallest details free of aberrations and halos. Combined with the zoom and the generous 23mm field number eyepieces, this provides a large FOV even at high magnifications (1.7mm).



### ERGONOMIC STAND WITH DIASCOPIC LED LIGHTING

Ergonomically designed, the SZR-180's wide base offers a huge space for sample holders, intuitive controls and an extremely low profile for easy access and reduced fatigue-free body movement. The LED diascope illumination is designed to achieve high overall contrast and includes the innovative OIC (Oblique Illumination Contrast) system, ideal for transparent structures, and dark-field illumination.



**Head:** Trinocular 100/0 – 0/100 (on right tube), 20° inclined.

**Interpupillary distance:** 52-112 mm.

**Dioptric adjustment:** Both eyepieces.

**Eyepieces:** WF10x/23 mm, high eyepoint with rubber cups.

**Objective:** PLAN Apochromatic 1x, N.A. 0.15, 7.5x-135x (zoom ratio 18:1), zoom click stops at 0.75x, 1x, 2x, 3x, 6x, 10x, 13.5x with aperture diaphragm. Optical system: Galilean (Infinity corrected), with antifungus treatment.

**Working distance:** 60 mm.

**Stand:** High-grade, precision fixed with handle and focus.

**Focusing:** Coaxial coarse & fine, coarse total travel 125 mm, fine single rotation 2 mm. Rack and pinion focusing mechanism.

**Stage:** Glass transparent plate for transmitted illumination diameter 180 mm.

**Illumination:** LED transmitted, with OIC (Oblique Illumination Contrast) and darkfield illumination. Lifetime: > 65.000 hours. Multi-plug 100-240Vac/12Vdc external power supply.

**Weight:** 12.5 kg.

### Research Life Science Stereo Microscope, Optika Microscopy: now with -15% DISCOUNT

Reference	Description	Price	Promo Price
SZR-180	Research life science stereo microscope, 7.5x-135x, Zoom ratio 18:1, multi-plug	9.908,80 €	8.425,00 €

Prices are without VAT and valid until 31 12 2022.

## EDUCATIONAL STEREO MICROSCOPE: SFX / ST Models

[www.optikamicroscopes.com](http://www.optikamicroscopes.com)

OPTIKA SFX / ST model series includes a wide selection of stereomicroscopes designed to satisfy every need in both teaching and amateur fields. Slim and easy to carry solutions, it is equipped with all you need to start learning to use a scientific instrument: 20 mm field of view, up to 40x maximum magnification, several options concerning illumination (including rechargeable batteries), objectives, and stands.



### SFX-33 Binocular Stereomicroscope

Binocular stereomicroscope equipped with turnable objective (2x-4x), fixed arm with handle, and incredibly bright and uniform led illumination (transmitted and incident), settable through the exclusive touch control. Powered by rechargeable batteries. All the technical specifications are identical with the model SFX-51, except the head of the microscope, which is fix, and not rotating.

### SFX-51 Binocular Stereomicroscope

Binocular stereomicroscope equipped with turnable objective (2x-4x), 360° rotating head, fixed arm with handle, and incredibly bright and led uniform illumination (transmitted and incident), settable through the exclusive touch control. Powered by rechargeable batteries.

**Observation mode:** Brightfield.

**Head:** Binocular head, 45° inclined, 360° rotating.

**Interpupillary distance:** Adjustable.

**Dioptric adjustment:** On both eyepieces.

**Eyepieces:** WF 10x/20 mm, secured by screw.

**Objective:** Achromatic 2x-4x with anti-fungus treatment.

**Stand:** Fixed stand with focus and handle.

**Focusing:** Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

**Illumination:** Incident: 1W LED, transmitted: 1W LED. Touch brightness control. With rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/5Vdc external power supply.



### SFX-91 Binocular Stereomicroscope

Binocular stereomicroscope equipped with turnable objective with 3 magnifications (1x-2x-4x), precision fixed arm with handle, and incredibly bright and uniform led illumination (transmitted and incident), settable through the exclusive touch control. Powered by rechargeable batteries.

**Observation mode:** Brightfield.

**Head:** Binocular head, 45° inclined.

**Interpupillary distance:** Adjustable.

**Dioptric adjustment:** On both eyepieces.

**Eyepieces:** WF 10x/20 mm, secured by screw.

**Objective:** Achromatic 1x-2x-4x with anti-fungus treatment.

**Stand:** High-grade fixed stand with focus and handle.

**Focusing:** Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

**Illumination:** Incident: 1W LED, transmitted: 1W LED. Touch brightness control. With rechargeable batteries. Color temperature: 6,300 K.

Multi-plug 100-240Vac/5Vdc external power supply.



### SFX-91D DIGITAL Binocular Stereomicroscope

Digital binocular stereomicroscope equipped with with 3 magnifications turnable objective (1x-2x-4x), precision fixed arm with handle, and incredibly bright and uniform led illumination (transmitted and incident), settable through the exclusive touch control. Powered by rechargeable batteries.

**Observation mode:** Brightfield.

**Head:** Binocular head, 45° inclined, with built-in 3Mp USB digital camera.

**Interpupillary distance:** Adjustable.

**Dioptric adjustment:** On both eyepieces.

**Eyepieces:** WF 10x/20 mm, secured by screw.

**Objective:** Achromatic 1x-2x-4x with anti-fungus treatment.

**Stand:** High-grade fixed stand with focus and handle.

**Focusing:** Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

**Illumination:** Incident: 1W LED, transmitted: 1W LED.

Touch brightness control. With rechargeable batteries.

Color temperature: 6,300 K.

Multi-plug 100-240Vac/5Vdc external power supply.



## EDUCATIONAL STEREO MICROSCOPE: SFX / ST Models

### ST-50Led Binocular Stereomicroscope

Binocular stereomicroscope equipped with fixed objective (2x), swiveling LED incident illumination on an overhanging, flexible arm. Ideal for long working distance (119 mm with standard 2x objective, 165 mm with ST-025, 124 mm with ST-026).

**Observation mode:** Brightfield.

**Heads:** Binocular head, 45° inclined.

**Interpupillary distance:** Adjustable.

**Dioptric adjustment:** On the left eyepiece.

**Eyepieces:** WF 10x/20 mm, secured by screw.

**Objective:** Achromatic 2x with anti-fungus treatment.

**Stand:** Overhanging stand with focus.

**Focusing:** Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

**Illumination:** Incident: 1 W LED on flexible arm. Color temperature: 6,300 K. Multi-plug 100-240Vac/6Vdc external power supply.



### SFX/ST Series - Comparison Chart

Model	Head	Eyepieces	Objectives	Working Distance	Stand	Illumination
<b>SFX-33</b>	Binocular 45° inclined fixed	WF 10x/20	2x - 4x selecttable	57 mm	Fixed with focus and handle	Incident: 1 W LED Transmitted: 1 W LED Touch brightness control Rechargeable batteries
<b>SFX-51</b>	Binocular 45° inclined 360° rotating	WF 10x/20	2x - 4x selectable	76 mm	Fixed with focus and handle	Incident: 1 W LED Transmitted: 1 W LED Touch brightness control Rechargeable batteries
<b>SFX-91</b>	Binocular 45° inclined fixed	WF 10x/20	1x - 2x - 4x selectable	60 mm	High-grade fixed with focus and handle	Incident: 1 W LED Transmitted: 1 W LED Touch brightness control Rechargeable batteries
<b>SFX-91D</b>	Binocular 45° inclined 3 MP integrated camera	WF 10x/20	1x - 2x - 4x selectable	60 mm	High-grade fixed with focus and handle	Incident: 1 W LED Transmitted: 1 W LED Touch brightness control Rechargeable batteries
<b>ST-50Led</b>	Binocular 45° inclined fixed	WF 10x/20	2x fixed	119 mm	Overhanging with focus	Incident: 1 W LED on flexible arm

### Educational Stereo Microscope, Optika Microscopy: **now with -15% DISCOUNT**

Reference	Description	Price	Promo Price
<b>SFX-33</b>	SFX Stereomicroscope, fixed arm, 20x40x, touch panel, LED Incident & transmitted light, multi-plug.	<del>255,20 €</del>	<b>215,00 €</b>
<b>SFX-51</b>	SFX Stereomicroscope, fixed arm, rotating head, 20x40x, touch panel, LED Incident & transmitted light, multi-plug.	<del>289,30 €</del>	<b>245,00 €</b>
<b>SFX-91</b>	SFX Stereomicroscope, fixed arm, rotating head, 10x20x40x, touch panel, LED Incident & transmitted light, multi-plug.	<del>319,00 €</del>	<b>275,00 €</b>
<b>SFX-91D</b>	SFX Digital stereomicroscope, fixed arm, rotating head, 10x20x40x, touch panel, LED Incident & transmitted light, multi-plug.	<del>535,70 €</del>	<b>455,00 €</b>
<b>ST-50Led</b>	ST-50 Binocular stereomicroscope, 20x, LED Incident, overhanging stand, multi-plug.	<del>333,30 €</del>	<b>285,00 €</b>

Prices are without VAT and valid until 31 12 2022.

## EDUCATIONAL STEREOMICROSCOPES: SLX Series

The valuable configurations of cordless and modern stereo & stereozoom microscopes manufactured by Optika Microscopy are ideal for a variety of applications, including dissection, biology, entomology, anatomy, chemistry, material science among the others and even industrial purposes. Provided with dual magnification or **6.43:1 zoom ratio**, **FN 21 high eyepoint eyepieces**, high-grade precise fixed arm with focus and handle with the latest technology of **EcoLED™** illumination plus rechargeable batteries. **Slim and easy to carry**, all the models with high-grade precise fixed arm are equipped with long lasting **LED** illumination to provide over 20 years of use. **Ultra-Flat base** of only 3 cm height to ensure smooth specimen movement with Ø 100 MM disc for top class diffusion of the transmitted light..

### ULTRA-FLAT BASE



### EcoLED



**THE LONGEST AUTONOMY ON THE MARKET ENSURED BY ECOLED™**

OPTIKA has re-designed illumination in microscopy, once again: a special coating process on optics combined with a new, higher ratio between low consumptions and ultra-efficiency has addressed us to top brightness levels

### SLX-1 Binocular Stereomicroscope

**Cordless** binocular stereomicroscope ideal for **students, schools and amateurs** to dissect and discover mainly biology and materials science in 3D, with **turnable objective (2x-4x)**, **FN 21 high eyepoint**, precision fixed arm with handle and the latest technology of **EcoLED™** illumination plus rechargeable batteries. Slim and easy to carry, it is equipped with long lasting LED illumination to provide over 20 years of use.



### SLX-2 Binocular Stereomicroscope

**Cordless** binocular stereozoom microscope ideal for **students, schools and amateurs** to dissect and discover mainly biology and materials science in 3D, with **0.7x...4.5x zoom**, **FN 21 high eyepoint**, precision fixed arm with handle and the latest technology of **EcoLED™** illumination plus **rechargeable batteries**. Slim and easy to carry, it is equipped with long lasting LED illumination to provide over 20 years of use.

### SLX-4 Binocular Stereomicroscope

**Binocular stereozoom** microscope with extremely stable, **long overhanging stand** for observation of particularly large specimens. **Smooth horizontal and vertical movements** are ensured and the head can be easily swivelled for inspection at oblique angles. In case illumination is needed, choose from the wide choice of external illuminators available.



## EDUCATIONAL STEREO MICROSCOPES: SLX Series

### SLX-5 Trinocular Stereomicroscope

Trinocular stereozoom microscope with extremely stable, long overhanging stand for observation of particularly large specimens. Smooth horizontal and vertical movements are ensured and the head can be easily swivelled for inspection at oblique angles. In case illumination is needed, choose from the wide choice of external illuminators available.

**Head:** Trinocular, 45° inclined; 360° rotating.

**Dioptric adjustment:** Both eyepieces.

**Eyepieces:** WF10x/21 mm, high eyepoint, secured by screw and with rubber cups.

**Objective:** Parfocal achromatic zoom 0.7x...4.5x (6.43:1 ratio) with anti-fungus treatment.

**Working distance:** 100 mm.

**Focusing:** Rack and pinion mechanism controlled by a pair of knobs placed on both sides of the stand.

**Stand:** Overhanging stand 420 mm high, 430 mm horizontal arm length, base 230×230 mm with following adjustments: height, longitudinal extension and head rotation angle (left-right).



## SLX Series - Comparison Chart

Model	Head	Eyepieces	Objectives	Working Distance	Stand	Illumination
SLX-1	Binocular 45° inclined 360° rotating	WF 10x/21	2x - 4x selectable	100 mm	High-grade, precision fixed with handle and focus	EcoLED™ swiveling incident and transmitted with brightness control, rechargeable batteries
SLX-2	Binocular 45° inclined 360° rotating	WF 10x/21	0.7x ... 4.5x zoom	100 mm	High-grade, precision fixed with handle and focus	EcoLED™ swiveling incident and transmitted with brightness control, rechargeable batteries
SLX-3	Trinocular (50/50) 45° inclined 360° rotating	WF 10x/21	0.7x ... 4.5x zoom	100 mm	High-grade, precision fixed with handle and focus	EcoLED™ swiveling incident and transmitted with brightness control, rechargeable batteries
SLX-4	Binocular 45° inclined 360° rotating	WF 10x/21	0.7x ... 4.5x zoom	100 mm	Overhanging stand	Without illumination, External light source needed
SLX-5	Trinocular (50/50) 45° inclined 360° rotating	WF 10x/21	0.7x ... 4.5x zoom	100 mm	Overhanging stand	Without illumination, External light source needed

### Educational Stereo Microscope, Optika Microscopy: now with -15% DISCOUNT

Reference	Description	Price	Promo Price
SLX-1	SLX Stereomicroscope, fixed arm, 20x40x, LED Incident & transmitted light, multi-plug.	320,10€	275,00 €
SLX-2	SLX Stereomicroscope 7x-45x, fixed arm, Zoom ratio 6.43:1, LED Incident & transmitted light, multi-plug.	459,80€	390,00 €
SLX-3	SLX Trinocular stereomicroscope 7x-45x, fixed arm, Zoom ratio 6.43:1, LED Incident & transmitted light, multi-plug.	509,30€	435,00 €
SLX-4	SLX Stereomicroscope 7x-45x, Zoom ratio 6.43:1, overhanging stand.	667,70€	565,00 €
SLX-5	SLX Trinocular stereomicroscope 7x-45x, Zoom ratio 6.43:1, overhanging stand	728,20€	620,00 €

Prices are without VAT and valid until 31 12 2022.



# NIGHTSEA® Fluorescence Viewing Systems

## Stereo Microscope Fluorescence Adapter

The Model SFA Stereo Microscope Fluorescence Adapter is a **complete** solution for adding fluorescence to existing stereo microscopes. It includes everything you need for adapting (not converting) just about any stereo microscope. You can purchase any of the 6 modular wavelength combinations that you need now and add more at any time.

1) A complete system with one excitation/emission combination includes these 7 items:

- 2) Flexible gooseneck lamp base with control circuit
- 3) Power supply that operates from 120/240VAC, 50/60Hz and international plug set.
- 4) Simple adapter that mounts on virtually any existing stereo microscope
- 5) LED light head
- 6) Barrier filter that attaches to the adapter with a simple magnetic click
- 7) Viewing shield made of matching filter material
- 8) Soft-sided case with custom cut foam for protection in transport and storage

If you want a second wavelength combination, either at the time of the original order or some time in the future, you do not need to order another 'complete system'. You just need the add-on modular excitation/emission set.

**Add-on modular wavelength sets include:**

- a. LED light head
- b. Barrier filter that attaches to the adapter with a simple magnetic click
- c. Viewing shield made of matching filter material
- d. Case with custom cut foam for protection in transport and storage

The part numbers for these add-on sets include the letters 'LFS' (for Light and Filter Set).

The light head and filters can be removed and replaced in seconds, and color coding ensures that you are using the right combination. All components are also available a la carte.

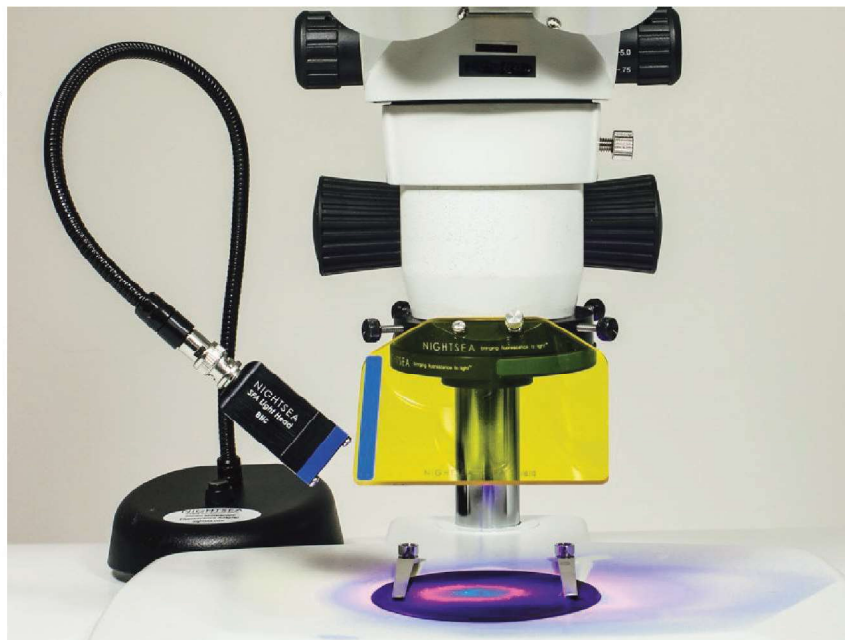
### Wavelength sets

Wavelength sets are named and color coded for the color of the **excitation** light, not the color of the emitted fluorescence. Uncertain what to use? Refer to our comprehensive table of fluorophores and recommended NIGHTSEA wavelength sets.

Designation	Excitation	Emission Filter
UV – <u>Ultraviolet</u>	360 – 380nm	415nm longpass
VI – <u>Violet</u>	400 – 415nm	450nm longpass
RB – <u>Royal Blue</u>	440 – 460nm	500nm longpass
<b>RB-GO</b> – <u>Royal Blue, Green Only</u>	440 – 460nm	500 – 560nm bandpass
CY – <u>Cyan</u>	490 – 515nm	550nm longpass
GR – <u>Green</u>	510 – 540nm	600nm longpass

With the Royal Blue (RB) excitation we offer two barrier filters – longpass and bandpass. Read our article on selecting the right passband option for your application.

- We also offer a **White light head (WH)** for general white light illumination and as a focusing aid for fluorescence imaging





# NIGHTSEA® Fluorescence Viewing Systems

## Part numbers and pricing

Note: Wavelength sets are named and color coded for the color of the *excitation* light, not the color of the emitted fluorescence.

**One-color complete setup – 2,018.25 € (2,220.75 € for SFA-UV-DIM)**

SFA-UV-DIM – Ultraviolet (360 – 380nm) excitation

SFA-VI -DIM– Violet (400 – 415nm) excitation

SFA-RB -DIM– Royal Blue (440 – 460nm) excitation with longpass filter

SFA-RB-GO -DIM– Royal Blue with green-only bandpass filter

SFA-CY-DIM – Cyan (490 – 515nm) excitation

SFA-GR-DIM – Green (510 – 540nm) excitation

**Modular excitation/emission sets – 830.25 € (1032.75 € for SFA-LFS-UV)**

SFA-LFS-UV – Ultraviolet excitation

SFA-LFS-VI – Violet excitation

SFA-LFS-RB – Royal Blue excitation

SFA-LFS-RB-GO – Royal Blue excitation with green-only bandpass filter

SFA-LFS-CY – Cyan excitation

SFA-LFS-GR – Green excitation

**Modular white light head – 344.25 €**

SFA-LH-WH-DIM

## Ordering/pricing examples

### Scenario 1 – You do not own a NIGHTSEA system yet and want to observe GFP

You just need the Royal Blue excitation/emission set. The most common choice is part number SFA-RB-DIM, with the longpass filter. If you want the bandpass option the part number is SFA-RB-GO-DIM. Either would be priced at **2018,25 €**.

### Scenario 2 – You do not own a NIGHTSEA system yet and want to observe both GFP and RFP

You need the Royal Blue and Green excitation/emission sets, but you only need one 'complete system'. You would order SFA-RB-DIM (**2018,25 €**) and SFA-LFS-GR (**830.25 €**).

### Scenario 3 – You already own a NIGHTSEA system, for example SFA-RB-DIM, and want to add another wavelength set to observe RFP

You just need the add-on modular Green excitation/emission set, SFA-LFS-GR, price **830.25 €**.

## High points

Requires NO disassembly or modification to your microscope - Installs in under a minute

Power supply compatible with 110/220V, 50/60Hz, and comes with modular international plug set – US, EU, UK, AU

Does not interfere with ordinary use – the barrier filters attach magnetically so they can be easily removed at any time

No warm-up or cool-down required – true instant on/off - Modular excitation/emission – purchase what you need, expand at any time

Works with virtually every existing stereo microscope, regardless of age - Components are color coded to avoid confusion

Easily moved between microscopes - Includes unique filter shield – dual function as eye protection and as a viewing filter

Accessories to increase versatility (see below)

Made in USA

## NIGHTSEA Stereo Microscope Fluorescence Adapters : now with -10% DISCOUNT

Reference	Description	Price	Promo Price
SFA-UV-DIM	COMPLETE SYSTEM WITH UV, DIM LAMP BASE	2467,50-€	2220,75 €
SFA-VI-DIM	COMPLETE SYSTEM WITH VIOLET, DIM LAMP BASE	2242,50-€	2018,25 €
SFA-RB-DIM	COMPLETE SYSTEM WITH ROYAL BLUE, DIM LAMP BASE	2242,50-€	2018,25 €
SFA-RB-GO-DIM	COMPLETE SYSTEM WITH ROYAL BLUE & GREEN ONLY BARRIER FILTER,	2242,50-€	2018,25 €
SFA-CY-DIM	COMPLETE SYSTEM WITH CYAN, DIM LAMP BASE	2242,50-€	2018,25 €
SFA-GR-DIM	COMPLETE SYSTEM WITH GREEN, DIM LAMP BASE	2242,50-€	2018,25 €
SFA-LFS-CY	Add-on Excitation/Emmission Set, Cyan	922,50-€	830,25 €
SFA-LFS-GR	Add-on Excitation/Emmission Set, Green	922,50-€	830,25 €
SFA-LFS-RB	Add-on Excitation/Emmission Set, Royal Blue	922,50-€	830,25 €
SFA-LFS-UV	Add-on Light & Filter Set, UV	1147,50-€	1032,75 €
SFA-LFS-GO	Add-on Light & filter Set, Green Only	922,50-€	830,25 €
SFA-LFS-VI	Add-on Excitation/emmission set, violet	922,50-€	830,25 €
SFA-LFS-WH	Modular White Light Head	922,50-€	830,25 €

Prices are without VAT and valid until 31 12 2022.



## LIVE CELL IMAGING SYSTEM EzScope 101

[www.blue-raybio.com](http://www.blue-raybio.com)

- EzScope 101 is a dedicated live cell imaging system that helps to streamline your research workflow with improved efficiency and productivity, no more hassles to remove cells from incubator for observation.
- EzScope 101 brings 24/7 measurements under precisely controlled conditions in a non-perturbing environment. You can observe the images anytime with walk-away convenience.
- Up to four samples can be monitoring simultaneously in a same incubator.

### Incubator Live View

Designed to be used inside the incubator, without the need to remove your cells from incubator to enhance culture quality control.

### Minimizes Experimental Variations

Up to four units of EzScope can to be setup in the same incubator and controlled by one computer. This enables the monitoring of samples simultaneously, reduces errors caused by environment variations.

### Exceptional Image Quality

Adopts high contract brightfield optical configuration, coupled with precise motorized focusing, and two interchangeable magnifying objective lenses.

### Remote Monitoring of Experiment

Allows flexible remote monitoring the assay via Windows-based remote desktop software.

### Easy Image Editor

Captures and edits images easily with EzCapture software:

- Live preview for up to 4 units of EzScope;
- Capture single image or time-lapse series
- Flatfielding correction for even brightfield background;
- Time-lapse video output;
- Spatial calibration
- Measure and convergence analysis

### Applications

EzScope 101 enables microscope-in-incubator to live view for real-time cell monitoring, migration, growth, and invasion, plus a wide range of phenotypic cell-based assays.

LIVE CELL IMAGING SYSTEM EzScope 101 now with <b>-20% DISCOUNT</b>			
Reference	Description	Price	Promo Price
<b>BRLC-0101</b>	EzScope 101 Brightfield Live Cell Imaging System with 10x Lens, white LED and motorized focusing	<del>6.995,00 €</del>	<b>5.596,00 €</b>



# TurboCycler 2 thermal cycler

## Outstanding Performance

- Fast heating ramp rate up to 5.5 °C/sec
- Excellent temperature accuracy and uniformity (+/- 0.3 °C)
- 12-section gradient temperature range from 1 to 24.9 °C for PCR optimization
- The temperature can be set between 35 and 120 °C for virtually any type of experiment including NGS pre-treatment

TurboCycler 2 thermal cycler is designed specifically to enhance PCR efficiency and accuracy. It is equipped with a 7" capacitive touchscreen and a friendly graphics user interface, which makes operation highly intuitive.

With fast ramping rate and gradient PCR optimization, TurboCycler 2 greatly improves PCR processing efficiency and accuracy.

The optional Wi-Fi module enables users to monitor the working status anytime via mobile devices.

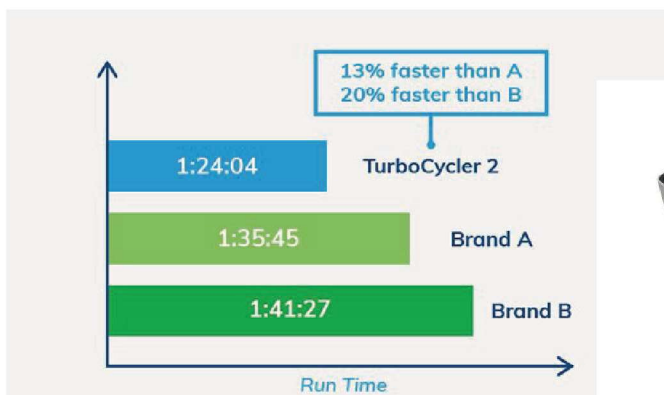


Figure 1: Comparison of run time between TurboCycler 2 and competitors.



Sample Block	
96 well, Gradient Block	Compatible with regular profile or low profile 0.2 ml PCR tube, strip, non-skirted, semi-skirted and full-skirted 96-well plate
Block Temperature	
Block Temperature Range	4.0°C - 99.9°C
Max. Heating Rate	5.5°C / sec
Max. Cooling Rate	3.3°C / sec
Temperature Accuracy	+/- 0.3°C
Temperature Uniformity Across Block	+/- 0.3°C
Adjustable Ramp Rate	High / Low
Slow-Ramp Temperature Control	Via temperature increment / decrement between cycles
General	
Display	7" color LCD with capacitive touch panel
Data Port	1 USB Type-A front port for USB flash drive
Auto Restart after Power Outage	Yes
Remote Monitoring via Wi-Fi	Optional
Footprint Dimensions (H x W x D)	225 mm x 245 mm x 415 mm
Weight	9.5 kg
Power Supply	AC 100-240 V, 50/60 Hz, 750 W
Certification	CE, RoHS

Gradient Temperature	
Gradient Direction	Horizontal across the block
Gradient Temperature Range	30 - 99°C
Gradient Temperature Difference	Max. span 24.9°C
Heater Lid	
Temperature Setting Range	35°C - 120°C or off
Temperature Accuracy	+/- 1.0°C
Software	
Portability of Protocols	Save and transfer to computer or TurboCycler 2 via USB Flash drive
Stored Program No.	> 500 sets
Registered User Folder No.	100 sets
User Folder Password Protection	Yes
Run Status Report	Yes, HTML output and transfer via USB flash drive
Real-time Temp. Profile Export	Yes, CSV output and transfer via USB flash drive
Tools	TM Calculator, copy number convertor, Master mix preparation wizard

Reference : TCST-9622 Gradient TurboCycler 2 with 96-well Sample Block **List Price : 5.499,00 EUR** **Promo Price : 4.399,00 EUR**

Prices are without VAT and valid until 31 12 2022.



## MICROCENTRIFUGE

**D1008 - EZeeMini Centrifuge**  
including two rotors A08-2 & A02-PCR8 and  
both tube adapters SA02P2 and SA05P2

### Key Features

- Ideal for microfiltration and quick spin-downs
- Easy-to-use with dual start/stop function
- 7000rpm fixed speed
- Compatible with 2mLx8 and PCR8x2 rotors
- Quiet running, noise level ≤45dB
- Rotor change without tools
- Accelerates and brakes in seconds
- Available in two colors i.e., green, blue

Delivered complete with 1 rotor for 8 x 1,5/2 ml microtubes and 1 rotor for 2 x 8 strip 0,2 ml microtubes, plus 8 tube adapters for 0.5 and 8 tube adapters for 0.2 ml PCR tubes.



### PROMO PRICE: 136,00 EUR

(LIST PRICE: 195,00 EUR, without VAT)

Speed	7000 RPM	
Acceleration	2680g	
Noise	<45 dB	
Dim./ Weight	150x150xh117 mm / 0,5 kg	
Power	100-240V, 50-60 Hz	
<b>Microcentrifuge</b>	<b>Reference</b>	<b>Price (no VAT)</b>
<b>Green Lid</b>	<b>9031002012</b>	<b>136,00 €</b>
<b>Blue Lid</b>	<b>9031001012</b>	<b>136,00 €</b>

## Levo PLUS pipette filler with AC adapter, 230 V

REFERENCE: 7033110100

### PROMO PRICE: 225,00 EUR

(LIST PRICE: 295,00 EUR, without VAT)

### Key Features

- Compatible with most of the plastic and glass pipettes from 0.1 -100mL
- Six speeds of selection for aspiration and dispensing different liquids
- Large LCD display showing low battery warning and speed settings
- Enables single-handed operation with minimum effort
- Light and ergonomic design providing easy usability
- High capacity Li-ion battery enable long runtime of operation
- Powerful pump fills a 25mL pipette in <5 seconds
- 0.45µm replaceable hydrophobic filter
- Rechargeable during use



Specifications	Levo Plus
Aspiration Speed	25mL<5s (6 shift)
Dispensing Speed	Motor (6 shift)/Gravity
Battery	Lithium-ion
Battery Service Life	More than 8 Hours of Intermittence Use
Charging Time	2-3 Hours
Pipette Types	Glass or Plastic Pipette (0.1-100mL), Pasteur Pipettes
Filter	0.45µm Hydrophobic
Weight	200g

Prices are without VAT and valid until 31 12 2022.



## HAND REFRACTOMETERS

**Wide range of refractometers for rapid and convenient measurements.**

**Accurate performance, easy operation, excellent repeatability, direct reading of different scales: Brix, Oechsle, Babo, scale specific (including ATC = automatic temperature compensation) for measurements of serum, protein, refractive index and concentration of freezing liquids or alcohol.**

The sturdy case guarantees a reliable use on the field, and the built-in LED eases the reading also in DIM light situations.



The refractive index of a substance is related to its specific density; a refractometer is used to measure the purity or the concentration of a sample when mixed.

Refractometers are suitable for a wide range of applications, which includes the control of blend ratios in light industrial applications (such as glycols, battery acid, heat exchange fluids, coolants, quenchants and hydraulic oils) and represents the ideal solution for users working in the food industry (fruit, beverages, confectionery, jam, honey and other sugar based products).

- » Value for money solution
- » Easy operation
- » Built-in LED illumination
- » Brix or scale specific (including ATC)
- » Sturdy construction with rubber grip

HAND HELD REFRACTOMETERS		
Reference	Description	PROMO PRICE
2WAJ	Abbe bench refractometer	€ 789,80
HR-110N	Hand refractometer, 0-20% Brix, ATC, built-in LED	€ 50,60
HR-130N	Hand refractometer, 0-32% Brix, ATC, built-in LED	€ 50,60
HR-140N	Hand refractometer, 0-32% Brix, ATC, triple scale, built-in LED	€ 50,60
HR-150N	Hand refractometer, 0-80% Brix, double scale, built-in LED	€ 67,10
HR-160N	Hand refractometer for urine and protein, ATC, built-in LED	€ 50,60
HR-170N	Hand refractometer for battery and antifreeze, ATC, built-in LED	€ 50,60
HR-180N	Hand refractometer for wine and grape, ATC, built-in LED	€ 50,60
HR-190N	Hand refractometer, 0-28% salinity, ATC, built-in LED	€ 50,60
HRD-300N	Digital refractometer, Brix and Refractive Index	€ 416,90
HRD-400N	Digital refractometer, Brix, salinity and Refractive Index	€ 416,90
HRD-500N	Digital refractometer for urine, serum protein and Refractive Index	€ 416,90
POL-X	Bench-top disc polarimeter, multi-plug	€ 815,10

Prices are without VAT and valid until 31 12 2022.



## Thermo Mixer



### HCM100PRO - Thermo mixer

#### Key Features

- Excellent mixing result
- Stable and wide range of speed adjustment
- Precise temperature control for heating and cooling
- Flexible adapter selection
- Programmable
- Compatible with various tubes
- Quick interchange of blocks with magnet adhesion technology and without any tools
- Block equipped with a lid for heat preservation



**PROMO PRICE: 1.800,00 EUR, without VAT**

## SAFEVAC vacuum aspiration system

**DELIVERED WITH ASPIRATION TIP AND 8-CHANNEL ADAPTER**

#### Key Features

- Sensitive level sensor to prevent liquid overflow during operation
- Vacuum power can be set to different levels to achieve 1mL/S to 15mL/S aspiration speed
- Fully autoclavable waste collection bottle, tubing and handle
- Lid, tubing and handle are easy for disassembling, cleaning and autoclaving
- Wide range of adapters to fit tube, microplate and disk plate for various tasks
- Interchangeable hand operator -tip adapters make it suitable for various tasks from single channel to 8-channel based on the applications in tube, micro plate, disk plate etc.



**PROMO PRICE: 775.00 EUR, without VAT**

(LIST PRICE: 1.195,00 EUR, without VAT)

Vacuum	0 to 600 mbar	
Aspiration speed	1 to 15 ml/scc.	
Vacuum bottle capacity	4000 ml	
Dim. / weight	180 x 240 x 450 mm / 3 kg	
Power	100-240V, 50/60 Hz	
<b>ASPIRATION SYSTEM</b>	<b>Reference</b>	<b>Price (no VAT)</b>
	<b>7035100000</b>	<b>775,00 €</b>



Prices are without VAT and valid until 31 12 2022.



## Vortex Mixer with adjustable speed

Ref. 8031102000, MX-S Adjustable speed Vortex Mixer

# DLAB

### Key Features

- Touch operation or continuous mode
- Variable speed control from 0 to 3000rpm
- Used for various mixing applications with optional adapters
- Specially designed vacuum suction feet for body stability
- Robust aluminum-cast construction

**PROMO PRICE: 144,00 EUR, without VAT**  
(LIST PRICE: 195.00 EUR, without VAT)



## DispensMATE

**DELIVERED WITH S40, GL32, GL38, GL25 and GL28 ADAPTERS**

### Key Features

- Excellent chemical resistance, components are made of PTFE, FEP, BSG, PP
- Fully autoclavable at 121°C
- Bottle-top dispensers covering a volume range from 1 mL to 50mL
- Easy for cleaning and maintenance
- The optional flexible discharge tube with safety handle permits fast and precise dispensing
- Vapor pressure max. 500mbar, viscosity max. 500mm<sup>2</sup>/s,
- Temperature max. 40°C, density max. 2.2g/cm<sup>3</sup>



### DispensMATE Bottle Top dispenser

Reference	Description	Price	Promo Price
7032100002	1 - 10ml, Bottle Top Dispenser DispensMate, Without Brown reagent bottle. Graduation: 0.2 ml	240,00-€	<b>180,00 €</b>
7032100004	5 - 50ml, Bottle Top Dispenser DispensMate, Without Brown reagent bottle. Graduation: 1 ml	295,00-€	<b>230,00 €</b>

Prices are without VAT and valid until 31 12 2022.

## CENTRIFUGE TUBES with conical bottom, PP, HDPE



- Sterile tubes have been validated according to ENISO 11137-2; SAL10<sup>-6</sup>
- Manufactured from ultra pure USP class VI certified virgin medical grade polypropylene to ensure the highest quality & conforming to US FDA 21 CFR.
- Even wall thickness to withstand maximum G-force, 18.000 x g RCF.
- Gas chromatography/Mass spectrometry (GC/MS) tests ensure purity of the products.
- Free from heavy metals, natural rubber & inhibitory plasticizers.
- Large white frosted portion for easy writing.
- Silk-Screen graduation makes identification easy.
- Option of Amber colour for light sensitive samples.
- Build-in plug in the cap makes it leak proof.
- Endotoxin Free <= 0.005 EU/ml, as per USP 161.
- Pyrogen Free as per USP 151.
- Radiation sterilized.
- Can be autoclaved.

Reference	Description	Special Price
<b>CENTRIFUGE TUBES WITH CONICAL BOTTOM, 15 ML</b>		
P10430	CENTRIFUGE TUBE CONICAL BOTTOM, PP/HDPE 15 ML (BULK), 500 pcs	52,00 €
P10401	CENTRIFUGE TUBE CONICAL BOTTOM, PP/HDPE 15 ML (25 PCS/ BAG), 500 pcs	56,00 €
P10441	CENTRIFUGE TUBE CONICAL BOTTOM, PP/HDPE 15 ML, RED CAP (25 PCS/ BAG), 500 pcs	56,00 €
P10402	CENTRIFUGE TUBE CONICAL BOTTOM, PP/HDPE 15 ML STERILE (GAMMA RADIATION) (25 PCS/ BAG), 500 pcs	62,00 €
P10442	CENTRIFUGE TUBE CONICAL BOTTOM, PP/HDPE 15 ML STERILE (GAMMA RADIATION), RED CAP, (25 PCS/ BAG), 500 pcs	62,00 €
<b>CENTRIFUGE TUBES WITH CONICAL BOTTOM, 50 ML</b>		
P10431	CENTRIFUGE TUBE CONICAL BOTTOM, PP/HDPE 50 ML (BULK), 500 pcs	60,00 €
P10403	CENTRIFUGE TUBE CONICAL BOTTOM, PP/HDPE 50 ML (25 PCS/ BAG), 500 pcs	65,00 €
P10443	CENTRIFUGE TUBE CONICAL BOTTOM, PP/HDPE 50 ML, RED CAP (25 PCS/ BAG), 500 pcs	65,00 €
P10404	CENTRIFUGE TUBE CONICAL BOTTOM, PP/HDPE 50 ML STERILE (GAMMA RADIATION) (25 PCS/ BAG), 500 pcs	73,00 €
P10444	CENTRIFUGE TUBE CONICAL BOTTOM, PP/HDPE 50 ML STERILE (GAMMA RADIATION), RED CAP, (25 PCS/ BAG), 500 pcs	73,00 €

Prices are without VAT and valid until 31 12 2022.



## 3rd generation of Centrifuge Tube Technology “maxiRCF™ Trace Metal Free”



### MaxiRCF™ Trace Metal Free Centrifuge Tubes

- MaxiRCF™ Trace Metal Free centrifuge tubes are manufactured using high purity virgin USP Class VI Medical grade polypropylene conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- MaxiRCF™ Trace Metal Free Centrifuge Tubes withstands 20,000xg RCF.
- Pure, Additive Free Natural Colour Cap for easy labelling and Trace Metal free.
- MaxiRCF™ Trace Metal Free Centrifuge Tubes works excellently in high density gradient separation of sample.

Reference	Description	Special Price
<b>MaxiRCF™ Trace Metal Free centrifuge tubes , 15 ML</b>		
<b>P10480</b>	Centrifuge Tube, Conical, PP, 15 mL, Bulk, Trace Metal Free, DNase/RNase free - 500 un.	<b>103,70 €</b>
<b>P10481</b>	Centrifuge Tube, Conical, PP, 15 mL, Trace Metal Free, DNase/RNase free - 20 x 25 un.	<b>110,00 €</b>
<b>P10482</b>	Centrifuge Tube, Conical, PP, 15 mL, Trace Metal Free, Sterile, DNase/RNase free - 20 x 25 un.	<b>119,40 €</b>
<b>MaxiRCF™ Trace Metal Free centrifuge tubes , 50 ML</b>		
<b>P10483</b>	Centrifuge Tube, Conical, PP, 50 mL, Bulk, Trace Metal Free, DNase/RNase free - 500 un.	<b>114,70 €</b>
<b>P10484</b>	Centrifuge Tube, Conical, PP, 50 mL, Trace Metal Free, DNase/RNase free - 20 x 25 un.	<b>122,60 €</b>
<b>P10485</b>	Centrifuge Tube, Conical, PP, 50 mL, Trace Metal Free, Sterile, DNase/RNase free - 20 x 25 un.	<b>135,10 €</b>
<b>P10486</b>	Centrifuge Tube, Conical, PP, 50 mL, Self-Standing, Bulk, Trace Metal Free, DNase/RNase free - 500 un.	<b>131,20 €</b>
<b>P10487</b>	Centrifuge Tube, Conical, PP, 50 mL, Self-Standing, Trace Metal Free, DNase/RNase free - 20 x 25 un.	<b>141,00 €</b>
<b>P10488</b>	Centrifuge Tube, Conical, PP, 50 mL, Self-Standing, Sterile, Trace Metal Free, DNase/RNase free - 20 x 25 un.	<b>157,10 €</b>

Prices are without VAT and valid until 31 12 2022.



## Get the **LOWEST** Sample Retention with our Last Drop Filter Pipette Tips

Whether you are performing RNA extraction or preparing your PCR mixture, the use of Filter Tips to avoid cross contamination is a must when it comes to qPCR assays!

LABORIMPEX offers a wide range of Filter Tips starting with one of the market's best quality-price options up to the top reproducibility of the low-binding tips interior.

**Very high quality and cost effective solution, available in all sizes from 0.2-10 $\mu$ L up to 100-1000 $\mu$ L.**

**Superior quality Filter Tips, produced with a low retention polymer which ensures extremely high precision even when pipetting the smallest amount of reagent.**



Best suited for biological applications.

Sterile tips have been validated according to ENISO 11137-2; 2012 for SAL 10<sup>-6</sup>.

Precise safety gap between filter and liquid, filter and pipette shaft to avoid contamination & worry free pipetting.

The Filters are made of 100% pure hydrophobic polyethylene (PE). This makes recovery of samples from wetted filters without contamination.

Super hydrophobic and inert filter that does not trap, block or absorb samples, thus save your precious sample loss in pipetting error.

Manufactured from ultra pure USP class VI certified virgin polypropylene to ensure the highest quality & confirming to US FDA 21 CFR. Free from heavy metals, natural rubber & inhibitory plasticizers.

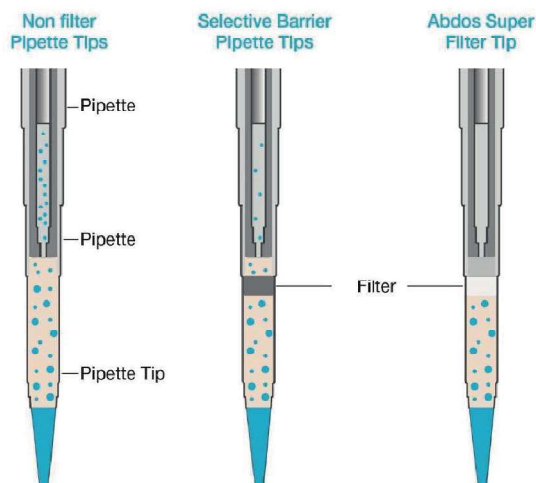
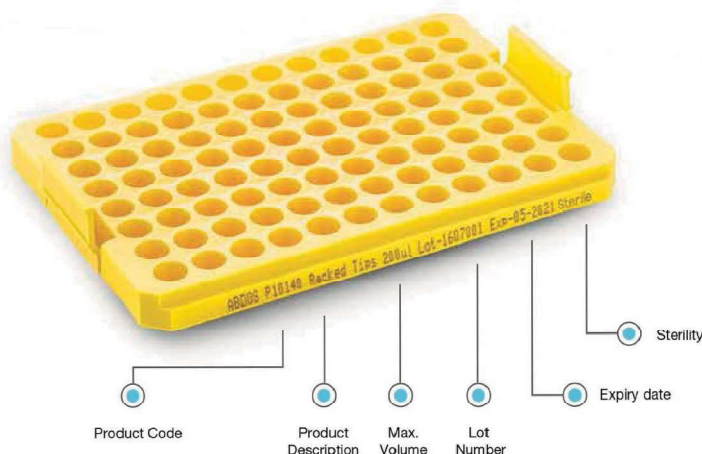
Proprietary polyethylene super filter provides aerosol barrier and aqueous liquid by-pass prevention in over-pipetting hereby preventing cross contamination.

Super hydrophobic material ensures retention level 10 times lesser with viscous samples than standard pipette tips to save an costly reagents.

5 Stage quality control procedures ensures 100% quality & performance.



- Prevents Both Liquid & Aerosol passing through the filter.
- The universal tip collar fits all popular pipettes.
- Perfect air lock grip on pipette by inner radial rings for accurate pipetting.
- Superior non-leaching performance in its class assures contamination free results.
- Precise safety gap between liquid & filter for electronic pipette and reverse pipetting.
- Precise graduation marks for accurate pipetting.
- Diamond polished moulds creates a hydrophobic surface ensuring the lowest retention in its class.
- Highly homogenous surface free of defects prevents non-specific binding.
- Non Cytotoxic (ISO 10993-5 MRM, Minimal Essential Media Elution, GLP Compliant).
- 99.9% Bacterial Aerosol Filtration Efficiency (BFE), (ASTM F21012).
- Non Hemolytic (Modified ASTM F 756-08 Hemolysis Direct Contact GLP with Human Blood).



Each wafer of the rack is printed with the product code, product description, the effective volume range, the lot number, expiry date and sterility information.

It makes easy to keep your work organized and ensure supplies are traceable.

Available in the following formats:

- Pipette Tips, Bulk in Resealable Bags, PP
- Pipette Tips, Racked, PP
- Pipette Tips, Sterile Racked, PP
- Pipette Tips, Refill Pack, PP



Reference	Description	List Price	Promo Price
<b>BULK TIPS</b>			
P10001U	Low Retention Tips, 0.2 - 10 µL, 1000 tips/bag	20,70 €	14,95 €
P10002U	Low Retention Tips, 0.2 - 10 µL XL, 1000 tips/bag	20,70 €	14,95 €
P10003U	Low Retention Tips, 2 - 200 µL, 1000 tips/bag	20,00 €	14,50 €
P10006U	Low Retention Tips, 100-1000 µL, 1000 tips/bag	11,40 €	7,95 €
<b>FILTER TIPS</b>			
P11061U	Low Retention Filter Tips, 0.2-10 µL, sterile, 10 x 96 tips	81,70 €	62,00 €
P11063U	Low Retention Filter Tips, 0.2-10 µL XL, sterile, 10 x 96 tips	81,70 €	62,00 €
P11065U	Low Retention Filter Tips, 2-20 µL, sterile, 10 x 96 tips	81,70 €	62,00 €
P11067U	Low Retention Filter Tips, 2-50 µL, sterile, 10 x 96 tips	81,70 €	62,00 €
P11069U	Low Retention Filter Tips, 2-100 µL, sterile, 10 x 96 tips	81,70 €	62,00 €
P11073U	Low Retention Filter Tips, 2-200 µL, sterile, 10 x 96 tips	81,70 €	62,00 €
P11075U	Low Retention Filter Tips, 2-300 µL, sterile, 10 x 96 tips	81,70 €	62,00 €
P11077U	Low Retention Filter Tips, 100-1000 µL, sterile, 10 x 96 tips	91,40 €	68,50 €

Prices are without VAT and valid until 31 12 2022.

## MICRO CENTRIFUGE TUBES, PP



- Micro centrifuge tubes made from highest quality of virgin polypropylene..
- Micro centrifuge tubes are RNase, DNase & Pyrogen free for safer use in molecular biology and other biochemical applications.
- These tubes can be used at -80 °C and with various organic solvents.
- These tubes are with integral snap cap.
- Frosting on the surface of the tubes makes writing easier.
- Large moulded in graduations makes identification easy.
- Maximum RCF 20000. Can be autoclaved.

Amber color micro centrifuge tubes suitable for light sensitive samples do not allow any light to pass through the samples.

Reference	Description	Special Price
<b>MICRO CENTRIFUGE TUBES, PP, 0.5, 1.5 &amp; 2 ML</b>		
P10201	MICRO CENTRIFUGE TUBES, PP, 0.5 ML, 1000 pcs	<b>11,50 €</b>
P10202	MICRO CENTRIFUGE TUBES, PP, 1.5 ML, 500 pcs	<b>7,50 €</b>
P10203	MICRO CENTRIFUGE TUBES, PP, 2.0 ML, 500 pcs	<b>8,80 €</b>
<b>MICRO CENTRIFUGE TUBES, PP, COLOURED &amp; AMBER</b>		
P10207	MICRO CENTRIFUGE TUBES, PP, 0.5 ML COLOURED, 1000 pcs	<b>13,50 €</b>
P10201A	MICRO CENTRIFUGE TUBES, PP, 0.5 ML AMBER, 1000 pcs	<b>14,50 €</b>
P10204	MICRO CENTRIFUGE TUBES, PP, 1.5 ML COLOURED, 500 pcs	<b>8,50 €</b>
P10204A	MICRO CENTRIFUGE TUBES, PP, 1.5 AMBER, 500 pcs	<b>9,50 €</b>
P10205	MICRO CENTRIFUGE TUBES, PP, 2.0 ML COLOURED, 500 pcs	<b>10,50 €</b>
P10203A	MICRO CENTRIFUGE TUBES, PP, 2.0 ML AMBER, 500 pcs	<b>11,50 €</b>
<b>LOW RETENTION, LAST DROP MICRO CENTRIFUGE TUBES, PP</b>		
P10208	LOW RETENTION MICRO CENTRIFUGE TUBES, PP, 0.5 ML, 1000 pcs	<b>13,60 €</b>
P10209	LOW RETENTION MICRO CENTRIFUGE TUBES, PP, 1.5 ML, 500 pcs	<b>8,90 €</b>
P10210	LOW RETENTION MICRO CENTRIFUGE TUBES, PP, 2.0 ML, 500 pcs	<b>10,70 €</b>

Prices are without VAT and valid until 31 12 2022.





## Fully autoclavable MicroPipette PLUS Pipettes



### Key Features

Fully autoclavable

Ergonomic design provides excellent operating experience

Easy-to-read volume display

The pipettes cover the volume range from 0.1µL to 5mL

Easy calibration and maintenance

Manufactured from innovative materials

Each MicroPette Plus supplied with an individual calibration certificate according to ISO8655

Supplied as single channel,

8-channel and 12-channel pipettes



Reference	Description	List Price	Promo Price
<b>SINGLE CHANNEL PIPETTES</b>			
7030301001	0.1-2.5µl <b>Single-channel</b> Adjustable Volume, Autoclavable Pipette	135,00€	<b>80,00 €</b>
7030301004	0.5-10µl <b>Single-channel</b> Adjustable Volume, Autoclavable Pipette	135,00€	<b>80,00 €</b>
7030301005	2-20µl <b>Single-channel</b> Adjustable Volume, Autoclavable Pipette	135,00€	<b>80,00 €</b>
7030301008	10-100µl <b>Single-channel</b> Adjustable Volume, Autoclavable Pipette	135,00€	<b>80,00 €</b>
7030301009	20-200µl <b>Single-channel</b> Adjustable Volume, Autoclavable Pipette	135,00€	<b>80,00 €</b>
7030301014	100-1000µl <b>Single-channel</b> Adjustable Volume, Autoclavable Pipette	135,00€	<b>80,00 €</b>
<b>8-CHANNEL PIPETTES</b>			
7030303004	0.5-10µl <b>8-channel</b> Adjustable Volume, Autoclavable Pipette	485,00€	<b>387,00 €</b>
7030303006	5-50µl <b>8-channel</b> Adjustable Volume, Autoclavable Pipette	485,00€	<b>387,00 €</b>
7030303012	50-300µl <b>8-channel</b> Adjustable Volume, Autoclavable Pipette	485,00€	<b>387,00 €</b>
<b>12-CHANNEL PIPETTES</b>			
7030304004	0.5-10µl <b>12-channel</b> Adjustable Volume, Autoclavable Pipette	515,00€	<b>406,00 €</b>
7030304006	5-50µl <b>12-channel</b> Adjustable Volume, Autoclavable Pipette	515,00€	<b>406,00 €</b>
7030304012	50-300µl <b>12-channel</b> Adjustable Volume, Autoclavable Pipette	515,00€	<b>406,00 €</b>

Prices are without VAT and valid until 31 12 2022.



## DiATOME Diamond Knives Developments

- Ultra 45° the first diamond knife with an absolutely score-free, hydrophilic cutting edge.
- Semi the first diamond knife for alternating sectioning ultrathin/semithin.
- Cryo the diamond knife for sectioning at low temperature.
- Histo the first diamond knife for semithin sections for light microscopy.
- Ultra 35° the diamond knife for optimized sectioning results in almost all applications.
- Static Line II the ionizer for eliminating electrostatic charging in ultramicrotomy.
- Cryo-P a cryo knife with a patented platform for section pick up.
- Cryo immuno the optimized cryo diamond knife for the Tokuyasu technique.
- **Ultra sonic the oscillating diamond knife for room temperature sectioning. See below:**
- Cryotrim 45 and 25 for optimizing trimming with diamond blades.
- Ultra AFM & cryo AFM the first diamond knives for AFM at room and low temperatures.
- Cryo 25° for sectioning frozen hydrated specimens.
- Trimtool 45° and 20° trimming tools for both room and cryo temperatures
- Manipulator for easy handling and mounting section ribbons
- **Thinner sections**
- **No compression**
- **Better structural preservation**

## We proudly introduce:

**The DiATOME ultra sonic: The oscillating diamond knife for ROOM TEMPERATURE ULTRAMICROTOMY.**

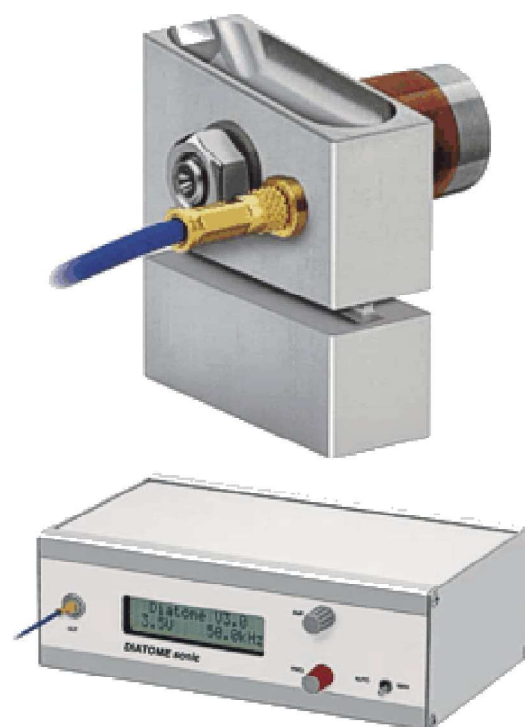
It was developed in collaboration with Dr Daniel Studer, Lab. of Anatomy, University of Bern.

A piezo actuator produces an oscillation of the knife at a desired frequency and amplitude, parallel with the cutting edge. A depression in the foot of the knife allows the oscillation parallel to the cutting edge. The depression is rigid in the north/south direction and guarantees stability in the cutting direction.

The new knife produces ultrathin sections almost free of compression. The sections become thinner at the same thickness setting: since the volume of the section remains the same, the increased length leads to a decrease in thickness.

We have tested the oscillating knife with the following samples:

- Biological samples in Epon, Araldite, EM Bed, etc.
- Biological samples in acrylic resins (Lowicryls, LR White).
- Rigid polymers such as PS, PMMA, ABS, HIPS, modified PP, etc.

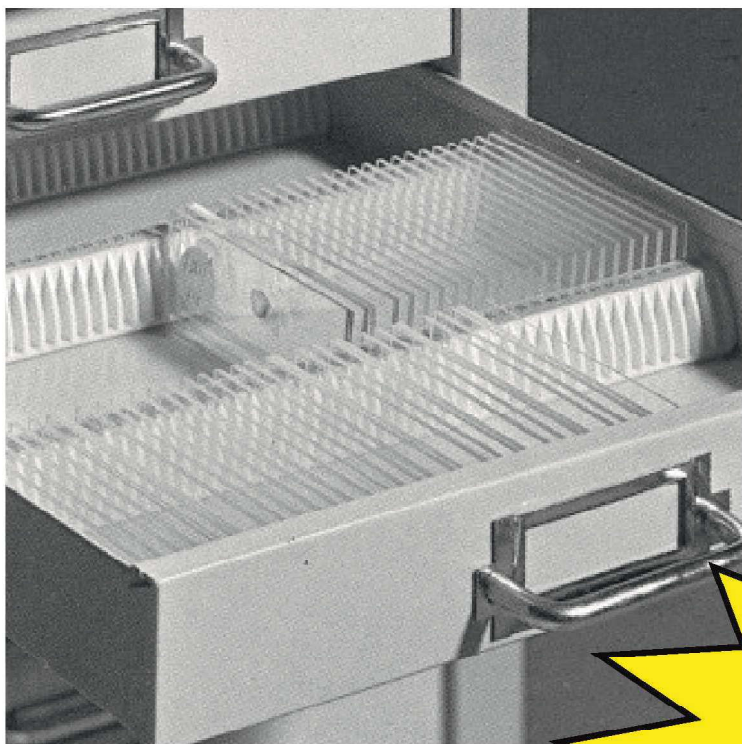


### ULTRA SONIC DiATOME Diamond Knives

Reference	Description	PROMO PRICE
DUS3530	ultra sonic 3.0mm - complete with control unit	€ 6725,00
DUOS3530	ultra sonic 3.0mm - knife only	€ 4598,00

Prices are without VAT and valid until 31 12 2022.

## Drawer filing cabinet M15



This horizontal drawer filing cabinet is produced by LABORIMPEX following the demands of our microscopy customers which need high quality storage facilities for a great number of slides.

**Standard capacity for 76 x 26 mm slides :**  
3000.

**Promotion Price:**

**736,39 EUR exc. V.A.T.**

**V.A.T.: +21%**

**Drawer Height** outside: 51mm

**Maximum capacity ( 2 slides each groove):** 6000.

**Outside dimensions :**

860 x 279 x 380 mm (Hx Wx D)

**Material :** Steel. Standard colour: Beige.

Other colours on demand.

**Weight empty:** +/- 25 Kg.

**Number of drawers :** 15.

**Standard capacity drawer :** 200 ( 4 rows of 50 pieces

**Maximum capacity drawer :** 400 (2 slides each groove)

**Dimensions drawer :** 51 x 240 x 380 mm (Hx Wx D)

DRAWER FILLING CABINET M15		
Reference	Description	PROMO PRICE
M15	Drawer filling cabinet, for 3000 microscopy slides	€ 736,39

Prices are without VAT and valid until 31 12 2022.



## CryoKING - POLYCARBONATE CRYOBOXES 81 Wells, Assorted

- Made of tough polycarbonate, chemically resistant to alcohols and mild organic solvents
- Can be repeatedly frozen and thawed
- 9x9 (81-well) boxes with numbered grids for easy sample identification
- Compatible with 0.5 ml, 1.5 ml or 2.0 ml microtubes and cryogenic vials
- Drain holes and air vents minimize condensation
- Five assorted colors available
- Suitable for storage in mechanical freezers or liquid nitrogen



Reference	Description	List Price	Special Price
90-9009	CryoKING 81-well PolyCarbonate CryoBoxes 133x133x53 mm, 20 Pcs. Assorted Colors: Green, Yellow, Red, Blue, White 5 CryoBoxes/ Pack, 4 Packs/Case.	267,60 €	133,80 €

Prices are without VAT and valid until 31 12 2022.

We sell the complete range of products (& spare parts) and we provide the service and technical support for all the products of the manufacturers below:

**ORDERING INFORMATION:**

**N.V. LABORIMPEX S.A.**  
 VAT: BE0420.691.374

Rue des Alliés 78-80 Bondgenotenstraat  
 B – 1190 Brussels, BELGIUM

[order@laborimpex.be](mailto:order@laborimpex.be)  
[www.laborimpex.be](http://www.laborimpex.be)

Tel. : +32.(0)2.345.99.94  
 Fax : +32.(0)2.347.39.63