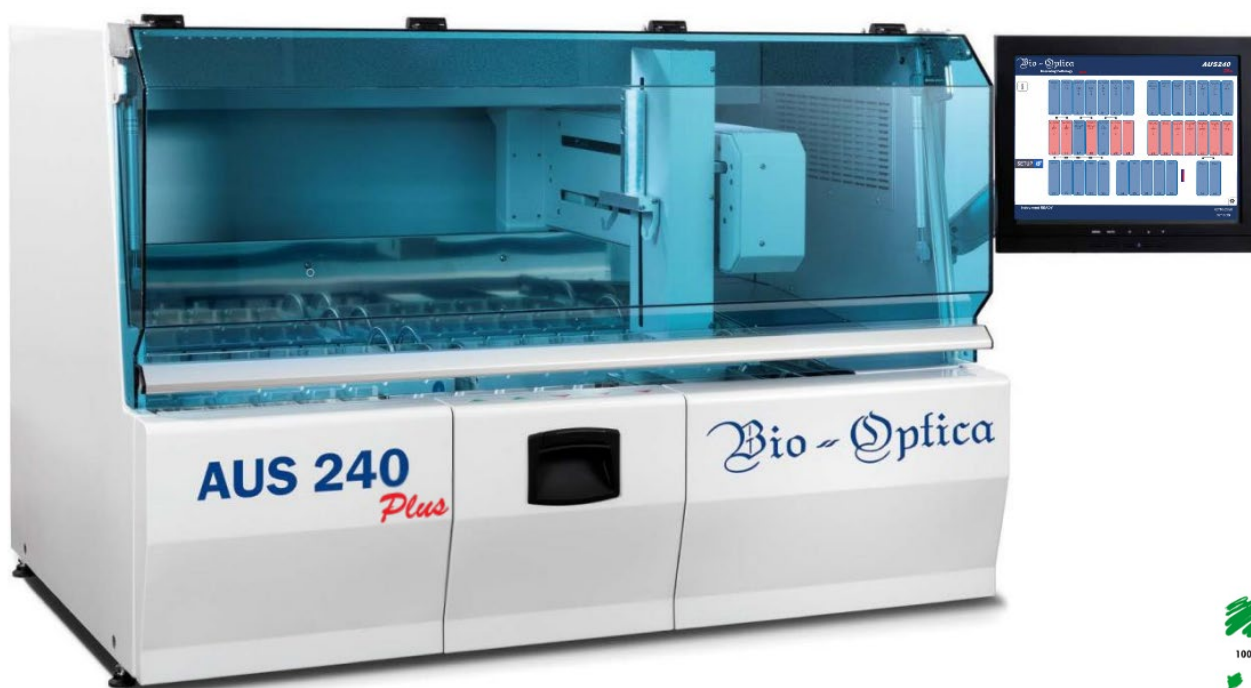




AUTOMATIC STAINER

AUS240 *Plus*



CODE	DESCRIPTION
40-400-350	Automatic stainer AUS240, with oven



In Vitro Diagnostic – Medical Device
IVD **Class A**, Reg. UE 2017/746
EMDN: W0202059002



Manufacturer: Bio-Optica Milano S.p.A.

UDI-DI: 08034120274685
Basic UDI: 080341202W0202059002M3

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The new automatic stainer AUS240, characterized by the use of the most recent technologies, is able to guarantee:

- Ease of use
- Brilliant staining
- Reproducible results

The instrument is able to create different types of colors:

- Hystology (**Hematoxylin-Eosin**)
- Cytology (**Papanicolaou**)
- Special colors (**Giemsa, PAS, Alcian Blu, Alcian PAS, Mucicarminio, Perls, Masson Tricromica, Ziehl Neelsen**)

STAINER FEATURES

The instrument guarantees the continuous loading of 30 slides baskets; the daily productivity depends on the staining protocols.

10 baskets can be stained contemporaneously, using the same protocol.

The software guarantees the protocols set by the operator, using the most rapid way.

The stainer contains 40 dishes (485ml each), of different types:

- Reagents: 28 stations, with high resistance to corrosion, placed on racks with 7 positions, easy to remove, for substitution and cleaning.
- Washing: 5 stations with regulation of pression and waterflow in and out.
- Drying: 2 ovens that can produce forced ventilation with 60°Cair.
- Loading: 2 stations, with possibility of loading new baskets when the instrument is closed
- Downloading: 3 stations, with the possibility of removing the stained baskets when the instrument is closed.



The agitation of the reagent dishes is particular and innovative, it is completely independent from the automatic arm. This particular agitation system (called “WAVING”) allows to obtain omogeneity of the staining solutioninside the dish, improving the quality of section staining and, last but not least, it reduces the amount of precipitate produced during daily routine.

Innovative is also the “ANTI DRIPPING” system which allows to keep a cleaner instrumendt thanks to the movement (with settable timing via software) of the basket in order to eliminate the excess of staining solution.

The vapour filtration system is totally integrated into the instrument and, thanks to the composition of active carchoal it is able to filter the 100% of toxic molecules, recycling clean and odourless air.

In addition, the end user can decide to connect the instrument to an external ventilation system in order to eliminate all vapours.

Thanks to the integrated UPS system, the functionality of the computer’s CPU is guaranteed for 30 minutes, so that in case of electrical alimentation issues, ones the instrument is switched on, it can continue the protocol starting from the last step wich was being executed.



The stainer allows to record 18 programs, with more than 100 steps each, with the possibility of setting the immersion time from 1" to 99'59" (with 1" discreption), so that it can meet every lab's needs.

The instrument setting is realize thanks to a colour touch screen (15"). So it is possible to monitor the staining processes, the reagent scheme and all the parametres of the staining protocol.

Another innovative feature is the exclusive "REAGENT MANAGEMENT SYSTEM" wich allows to set through the software, the maximum number of baskets that can pass in a particular reagent dish before its substitution.

This function, that can be used or not by the operator, is a quality warrancy since it leaves to the user the chance to decide for how long to use a reagent (staining solution, water, solvent etc..)

In addition it is possible to create reports with all staining protocol parametres, print them or record them on magnetic support. It is also possible to create a BACK UP on external memory, through USB ports easily accessible.

The operator can set a password (at 1 level) by guaranteeing the privacy of the working protocols.

Standard equipment

CODE	DESCRIPTION	Q.TY
40-400-266	Tap current water dish (485 ml)	5
40-400-264	Reagent dish (485 ml)	33
40-400-265	Slide basket (30 slides capacity)	10
40-400-253	Active charcoal filter (filter's lifecycle is 90 days)	1
40-400-261	Power supply wire	1
40-400-262	Left wall closing panel	1

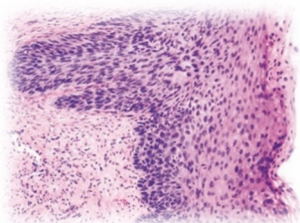
AUS240 technical features

Dimensions and weight	Dimensions (w x p x h)	1220 x 780 x 770 mm
	Monitor (w)	+ 400 mm
	Worktop (w x h)	1220 x 770 mm
	Weight	155 Kg
Electrical data	Power supply	115 ÷ 230 V
	Frequency	50 ÷ 60 Hz
	Electrical power	0,8 kW
Environmental conditions	Temperature	15 ÷ 30 °C
	Umidity	70% max
Internal composition	Reagents stations	28 (485 ml capacity each)
	Washing stations	5 (with flow and pressure regulator)
	Loading stations	2
	Exit stations	3
	Heated stations	2 (50°C ±1°C)
Productivity	Depends on the protocol (max 10 baskets, with 30 slides each, with different protocols)	
Connections	Loading tube H ₂ O (Ø)	10 mm
	Exhaust pipe H ₂ O (Ø)	18 mm (¾")
Exit	USB ports	4
Warning and precautions	Product classification	The product is intended for professional laboratory use for healthcare professionals.
	Recommendations	In the event of a serious accident, we recommend that you immediately inform Bio-Optica Milano S.p.A and the competent authorities

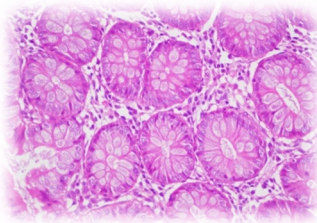
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Staining optimized for the instrument

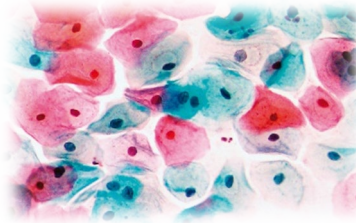
CODE	DESCRIPTION	VOL.
06-1306F	Isoparaffin	5 l
06-10077Q	Dehyol absolute	4 x 2,5 l
06-10070Q	Dehyol 95	4 x 2,5 l
05-06002E	Mayer Hematoxylin	2,5 l
05-10003E	Eosin alcoholic 0,5%	2,5 l
05-12011E	Papanicolaou Hematoxylin of Harris	2,5 l
05-12019E	Papanicolaou EA50	2,5 l
05-12013E	Papanicolaou OG6	2,5 l
05-12005/L	Giemsa	1 l



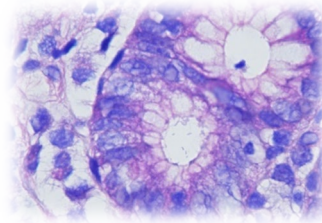
Hematotoxilin-Eosin



Hematoxilin-Eosin



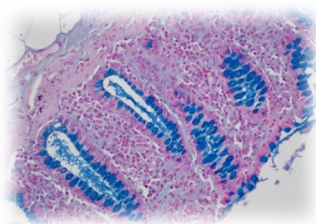
Papanicolaou



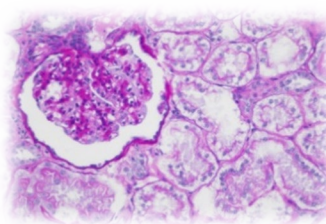
Giemsa

Special Stain Kit

CODE	DESCRIPTION
04-160802/L	Kit Alcian Blu pH 2.5 – 1000 ml
04-130802/L	Kit PAS – 1000 ml
04-163802/L	Kit Alcian PAS – 1000 ml
04-111802/L	Kit Ziehl Neelsen Fite – 1000 ml

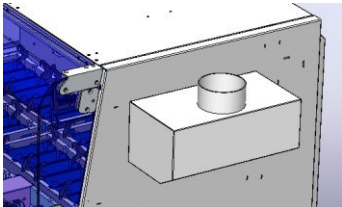


Alcian Blu

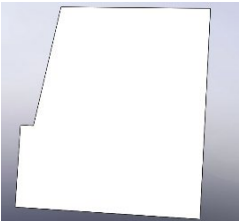
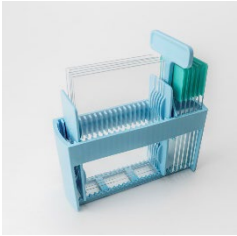


PAS

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CODE	DESCRIPTION		Q.TY
40-400-256	Adapter for Sakura slide baskets (20 slides capacity)		1
40-400-259	Adapter for Medite Coverslipper ASC720 slide baskets		1
40-400-260	Adapter for Medite Coverslipper RCM (Meisei) slide baskets		1
40-400-260	Adapter for Thermo CTM6 slide baskets		1
40-400-263	Collector for external vapour draining (Ø 100mm)		1

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40-130-401	Desk Tech 130 - Laboratory bench, smooth worktop suitable for Automatic Stainer AUS		1
40-400-262	Left wall closing panel		1
40-400-267	Macrosection slide adapter, 5 places (to be inserted in the basket). ATTENTION: NOT COMPATIBLE WITH CVR		2

REVISION N°	REASON	REVISION DATE
001	Regulation adjustment UE 2017/746 - IVDR	16/05/2022
002	Accessory code update code 20-E103/SL/R30A (40-400-267)	27/02/2023
003	Edit instrument configuration	11/11/2024

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