

BIO-OPTICA AUTOMATIC STATION STAINER & COVERSGLIPPER

HPC940



| CODE | DESCRIPTION |
|------------|--|
| 40-600-000 | Automatic stainer & coverslipper HPC940, without heated stations |
| 40-600-050 | Automatic stainer & coverslipper HPC940, with heated stations |
| 40-500-000 | Automatic coverslipper CVR909 |
| 40-400-300 | Automatic stainer AUS240, without heated stations |
| 40-400-350 | Automatic stainer AUS240, with heated stations |

IVD

In Vitro Diagnostic – Medical Device



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

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The new automatic stainer and coverslipper HPC940, the latest Bio Optica creation characterized by the use of the most recent technologies, is able to guarantee:

- Ease of use
- Brilliant staining
- Reproducible results
- Perfect mounting without air bubbles

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 pressure and water flow in and out.
- **Drying:** 2 ovens that can produce forced ventilation with 60°C air.
- **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 homogeneity of the staining solution inside 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 instrument 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 charcoal 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, once the instrument is switched on, it can continue the protocol starting from the last step which was being executed.

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The stainer allows to record 18 programmes, 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. So it is possible to monitor the staining processes, the reagent scheme and all the parametres of the staining protocol.

An other 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 funcion, that can be used or not bu the operator, is a quality warrancy since it 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.

COVERSLIPPER FEATURES

The instrument is able to load continuously baskets with 30 slides capacity each.

The coverslipper has been studied to ease the operator work, this is the Reason why the coverglass loading station are 2 (one for use and one for back up), both with a capacity of 100 coverglasses each (200 in total without the intervention of the user). In addition it is possible to load coverglasses of different dimensions:

- 24 x 40 mm
- 24 x 50 mm
- 24 x 60 mm

The substitution of the hoders is really rapid, so that the operator can adapt the instrument to his needs.

The coverslipper can work in "WET" or "DRY" mode.

As for the stainer, the coverslipper has got an integrated aspiration system with active charcoal and it is also possible to connect it to an external ventilation system.



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The coverslipper has got an integrated colour touch screen thanks to which it is possible to set different parameters and monitor different settings such as:

- Acoustic and visible signals for beginning and end of cycle
- Acoustic and visible signals in case of problems
- Filtration system control
- Mounted slides status control
- Signaling of mistakes during slides mounting



Unique and exclusive exit system of mounted glass slides: Bio-optica instrument ALLOWS TO OBTAIN THE MOUNTED GLASS SLIDES DIRECTLY ON TRAYS IN HORIZONTAL POSITION, by avoiding a huge time waste for the operators who will be able to bring the trays directly to the pathologist for the evaluation at the microscope.

An other important aspect is the mounting dispensing system. It is possible to set, in a precise way, all the dispensing parameters:

- Quantity
- Speed
- Slide off-set

In addition IT IS NOT NECESSARY TO SUBSTITUTE THE DISPENSING NEEDLE, since the instrument is able to meet all operator's needs. To avoid the needle obstruction, AFTER EVERY MOUNTING, THE NEEDLE IS AUTOMATICALLY CLEANED THROUGH A SOLVENT WASH.



The mounting medium (500 ml bottle), is studied to be easily accessible, with rapid connections (level sensor included) which allows the operator to substitute the bottle without touching any wire.

As for the stainer, it is possible to set a password at one level.

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Consumables for coverslipper (high quality results)

| CODE | DESCRIPTION | PACKAGING |
|------------|---|------------|
| 05-BMHM508 | BioMount HM, mounting medium | 8 x 500 ml |
| 09-2440 | Bio Optica coverglasses, 24 x 40 mm | 1000 pz |
| 09-2450 | Bio Optica coverglasses, 24 x 50 mm | 1000 pz |
| 09-2460 | Bio Optica coverglasses, 24 x 60 mm | 1000 pz |
| 09-9030 | Super Frost microscope slides, cut edge | 1000 pz |

Standard material included

| CODE | DESCRIPTION | Q.TY |
|---------------------|---|------|
| STAINER | | |
| 40-400-251 | Tap current water dish (485 ml) | 5 |
| 40-400-254 | Reagent dish (485 ml) | 33 |
| 40-400-252 | Slide basket (30 slides capacity) | 10 |
| 40-400-253 | Active carchoal filter (cabout 600 working hours, 4 working months) | 1 |
| 40-400-261 | Power supply wire | 1 |
| COVERSLIPPER | | |
| 40-500-054 | Coverglass holder (24x40 mm), 100 pcs capacity | 2 |
| 40-500-055 | Coverglass holder (24x50 mm), 100 pcs capacity | 2 |
| 40-500-056 | Coverglass holder (24x60 mm), 100 pcs capacity | 2 |
| 40-400-253 | Active carchoal filter (cabout 600 working hours, 4 working months) | 1 |
| 40-500-057 | Vapour filter for mounting medium bottle (for about 6 months) | 1 |
| 40-500-052 | Slide tray (10 slides capacity) | 50 |
| 40-500-058 | Medium dispensing needle (G17 type) | 1 |
| 50-500-051 | Needle cleaning system holder | 1 |
| 40-500-060 | Holder for coverglass chargers (at 2 positions) | 1 |
| 40-400-261 | Power supply wire | 1 |

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Automatic station HPC940 technical features

| | | |
|--------------------------|------------------------|---------------------|
| Dimensions and weight | Dimensions (l x h x p) | 2010 x 780 x 770 mm |
| | Monitor (l) | + 400 mm |
| | Worktop (L x P) | 2010 x 770 mm |
| | Weight | 230 Kg |
| Electrical data | Power supply | 115 ÷ 230 V |
| | Frequency | 50 ÷ 60 Hz |
| | Electrical power | 1,45 kW |
| Environmental conditions | Temperature | 15 ÷ 30 °C |
| | Umidity | 70% max |

Coverslipper CVR909 technical features

| | | |
|--------------------------|------------------------|--|
| Dimensions and weight | Dimensions (l x h x p) | 860 x 780 x 770 mm |
| | Worktop (L x P) | 860 x 770 mm |
| | Weight | 80 Kg |
| Electrical data | Power supply | 115 ÷ 230 V |
| | Frequency | 50 ÷ 60 Hz |
| | Electrical power | 0,6 kW |
| Environmental conditions | Temperature | 15 ÷ 30 °C |
| | Umidity | 70% max |
| Productivity | | 180 slides/hour (directly on the tray) |
| Mounting Medium | Bottle volume | 500 ml |
| Mounted slides output | | 9 trays with 10 slides capacity (total: 90 slides) |

Stainer AUS240 technical features

| | | |
|--------------------------|-----------------------------------|--|
| Dimensions and weight | Dimensions (l x h x p) | 1220 x 780 x 770 mm |
| | Monitor (l) | + 400 mm |
| | Worktop (l x p) | 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 (60°C ±1°C) |
| Productivity | | (max 10 baskets, with the same protocol) |
| Connections | Loading tube H ₂ O (∅) | 10 mm |
| | Exhaust pipe H ₂ O (∅) | 18 mm (¾") |
| Exit | USB ports | 4 |
| | Free contact | 1 |

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