



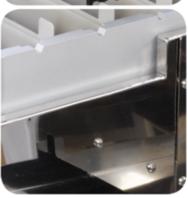
AUTOMATIC SLIDE STAINER

AUSZ













AUS Z



Automatic slide stainer with XY translator

Completely programmable

Multi-basket-protocol for histology and citology slide staining

The Intelsint AUS is a modern high throughput XY stainer, specifically designed for the operators safety and protection.

A total of 40 stations are available distributed on 3 rows. 28 reagent tanks are allocated in 2 rows with 4 removable racks (mid and back row, 7 tanks for each rack), an additional front row contains 5 tanks for flowing water, 2 input and 3 output tanks on a sliding-drawer with baskets sensors, the remaining 2 positions of the front row are fitted with warm air slide dryers.

All the structural internal parts are made in high quality stainless steel. An integrated computer controls all operations and is endowed with a large touch-screen color monitor. The advanced software handles multiple staining protocols and bath schemes, with a graphic representation of the work in progress. The HMI is clear and intuitive. Standard keyboard and mouse can be connected for who does not like touch-screen operations.





Control Features

Staining Protocols:	18 programs with 25 steps
Optional Baths Schemes:	2 alternative bath schemes, for each bath it is possible to define different reagents configuration and staining protocols
Equivalent Tanks:	equivalent tanks can be associate in order to optimize the workflow scheduling
Immersion time:	Programmable from 1" to 99'59". It is possible to define 3 different time priority: OPEN (no limit), FLEX (10% tolerance), EXACT (to be respected exactly)
Selectable dripping time	
HMI Interface:	Touch-screen color Monitor , 15" display. The instrument configuration is graphically reproduced with all the active components in motion. All operating needed data is shown at a glance with simple screen touch operations (mouse/keyboard operations available)
Languages:	English, Italian, German, French, Spanish, Chinese, Russian (every language can be easily implemented)
Reagent Quality Control:	the RMS (Reagent Management System) assists the operator with a precise scheduling of the reagent substitution allowing high quality staining results; reports on PDF files are available in the long term memory and can be easily downloaded by USB ports
Password:	1 level, with selectable instrument different function protection
Memory data backup:	on external flash memory via USB ports available on the instrument side

Automatic identification of the basket histologic - cytologic

The AUS2 is able, thanks to an optional feature, to recognize if the basket inserted into the loading station is loaded with histologic or cytologic slides.

Between the 18 different protocols present in the stainer it is possible to define a protocol specific for histologic stains and one for cytologic stains.

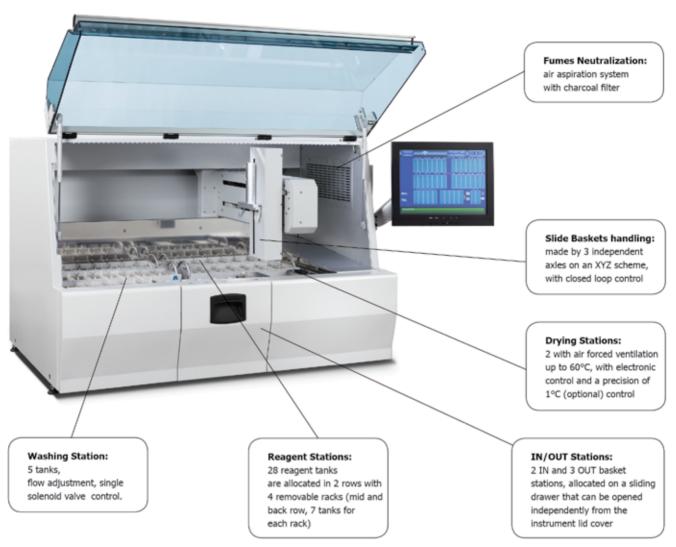
The instrument will automatically select and launch the corresponding one when he detects the tipe of basket.

This feature allows to reduce any possible error during the loading of the unit and optimizes the loading operation of the user.

For this particular function special basket have been created, and have been marked with the letter "H" for histologic samples, and with the letter "C" for cytologic ones.



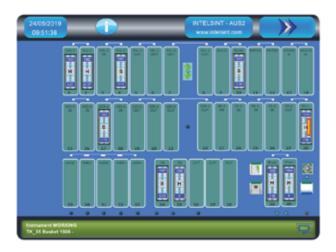




Functional Features

Slide throughput:	30 slides baskets continuous loading, up to 12 (or more) slide baskets handled/stained at the same time, with the same or with different staining protocols.
Operating procedure:	when a basket is inserted in an input stations the system asks the operator to define the staining protocols required, default protocols are proposed on 3 fast-start buttons.
Total Operative Stations:	40
Reagent Stations:	28 high resistance plastic tanks, 485 ml operating volume (600ml total volume); to allow safe and ergonomic reagent substitution/maintenance the reagent tanks are allocated on 4 easily removable and washable racks with handles.
Water Washing Stations:	5 tanks (removable), with water flow pressure adjustment and single solenoid valves for individual operation.
Drying Stations:	2 with air forced ventilation up to 60°C, with electronic control and a precision of 1°C (optional)
IN/OUT Stations:	2 IN and 3 OUT basket stations, allocated on a sliding drawer that can be opened independently from the instrument lid cover.
Reagent Agitation/Mixing:	continuous vertical up/down movement of the 28 reagent tanks, the agitation automatically starts when a basket is in one of the tank.
Fumes Neutralization:	air aspiration system with charcoal filter.
Connection to coverslipper:	this unit has been designed and produced in order to be easily connected to the CVR coverslipper unit.







Bath schemes and staining protocols programmaing

It is possible to define 2 different reagent allocation schemes. (pre-defined baths configuration). For each bath it is possible to define up to 18 staining protocols, each one made by 25 steps.

Each step is made by:

- reagent tank number (tank position)
- time in seconds
- time type (Open-Flex-Exact)
- drip time

Optimized Protocols Scheduling

Thanks to complex software alghorithms the protocols/baskets scheduling is optimized in order to achieve the highest possible througput. All basket handling phases are previously scheduled and studied allowing the end-effector time best usage.

Reagent Management System (RMS)

The RMS assists the operator with a precise scheduling of the reagent substitution allowing high quality staining results. When the predefined number of stained baskets is exceeded the related tank is shown in red color, the reagent substitution can be made when the instrument is in stand-by mode and the action can be easily recorded in the RMS system.

Simple protocols monitoring

Through a simple and clear user interface every operation is under total control.

All 40 stations and all actuators with their status (agitation system, water valves, air filtration, dryers, sensors, IN/OUT drawer) are clearly represented on the color screen.

During the operating phases the end-effector in movement is shown (basket translator).

It is possible to check the work in progress of each slide basket simply touching the related basket icon.

Touching the reagent tanks it is possible in any moment to know their situation (contents, baskets processed, last change date).

Selection of the staining protocols

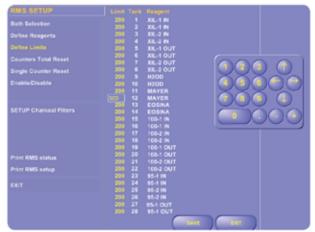
It is possible to define up to 18 different staining protocols.

With the automatic identification of the basket feature the selection is made automatically.

If the stainer recognizes the presence of a Histologic or Cytologic basket will automatically select the corresponding protocol.

If the stainer is connected to his coverslipper CVR will automatically select the correct amount of mounting medium to be used.







AUS2 - Technical Specification

Dimensions and weight	Dimensions (LxDxH) Monitor (L) Worktop (LxD) Weight	1220 x 770 x 780 mm + 400 mm 1220 x 770 mm 155 kg
Electrical data	Power supply Frequence Electrical power	115 ÷ 230 V 50 ÷ 60 Hz 0,8 kW
Working environment	Temperature / Humidity	15 ÷ 30 °C / 70% max
Internal composition	Reagent stations Rinse stations Loading stations Unloading stations Heated stations	28 (485 ml capacity) 5 (with pressure and flow regulator) 2 3 2 (60°C ±1°C)
Productivity		10 basket of 30 slides maximum, with the same protocol
Connections	Loading tube H2O (Ø) Exhaust pipe H2O (Ø)	10 mm 18 mm (¾")
Exit	USB ports Free Contact	4 1



Code	Description
920.091	Slide Dryer Module
920.090	Basket Automatic recognition system (H&E/PAP)

AUS2 - Optional Accessories

Code	Description
920.070	Adapter for Sakura slide baskets (20 slides capacity)
920.071	Adapter for Medite Coverslipper ASC720 slide baskets
920.072	Adapter for Medite Coverslipper RCM (Meisei) slide baskets
920.073	Adapter for Thermo CTM6 slide baskets
920.079	Collector for external vapout draining (Ø 100mm)



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