







AUSZ









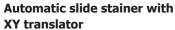






AUS Z





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.

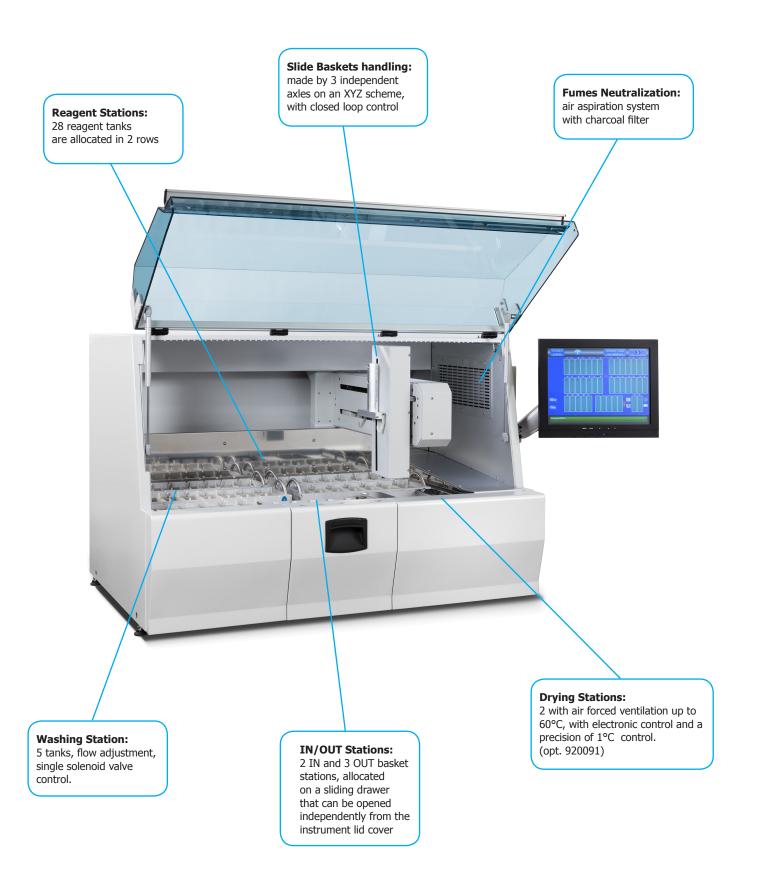
A total of 40 stations are available distributed on 3 rows. 28 reagent tanks are allocated in 2 rows (mid and back row), an additional front row contains 5 tanks for flowing water, 2 input and 3 output tanks on a sliding-drawer with baskets sensors, the remaining 2 positions of the front row are fitted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





AUS 2 Code 920004





Slide Dryer Module

Code 920091 (Optional)



The slide stainer can be equipped with a 2-station drying system, each station is provided with a heater and fan. The two units are operated simultaneously so to keep temperature constant.

Temperature is surveyed by means of a probe (thermocouple) placed on the wall situated at the centre of the heater.

Reagent mixing by mechanical up/down movement of the reagent tanks

Code 920092 (Optional)



The slide stainer can be equipped with an agitation system that sways the tanks and reagents contained.

The 28 reagent tanks are allocated in 4 removable racks with 7 tanks for each rack.

The agitation system consists of 2 motors that control the agitation of the tanks from 1 to 14 and the agitation of tanks from 15 to 28 respectively.

The agitation automatically starts when a basket arrives in one of the tanks.

Reagent mixing by mechanical vibration of the reagent tanks

Code 920093 (Optional)



The slide stainer can be equipped with a micro vibrating tank support provides a perfect agitation/mixing of the 28 reagent tanks.

The agitation automatically starts when a basket arrives in one of the tanks.



Basket Automatic recognition system (H&E/PAP)

Code 920090 (Optional)

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.



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 | | |



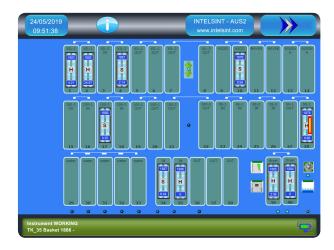
Functional Features

| Slide throughput: | 30 slides baskets continuous loading, up to 10 slide baskets handled/stained at the same time, with the same 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) | |
| 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 (Opt. 920091) | |
| 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: (optional) | Possibility to configure the instrument with: Standard without agitation Continuous vertical up/down movement 28 tanks and to allow safe and ergonomic reagent substitution/maintenance the reagent tanks are allocated on 4 easily removable and washable racks with handles. (Opt. 920092) Micro-vibration system of the 28 reagent tanks (Opt. 920093) | |
| 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. | |

AUS2 - Optionals

| Code | Description |
|--------|---|
| 920090 | Basket automatic recognition system (H&E/PAP) |
| 920091 | Slide Dryer Module |
| 920092 | Reagent mixing by mechanical up/down movement of the reagent containers |
| 920093 | Reagent mixing by mechanical vibration of the reagent containers |
| 3UPS02 | Uninterruptible Power Source, 230V 1980W (2200VA) |
| 920059 | Connection with LIS system |
| 920061 | Remote Service software Licence |
| 920062 | Remote Service Hardware + International SIM connection |
| 920070 | Adapter for Sakura slide baskets (20 slides capacity) |
| 920071 | Adapter for Medite Coverslipper ASC720 slide baskets |
| 920072 | Adapter for Medite Coverslipper RCM (Meisei) slide baskets |
| 920073 | Adapter for Thermo CTM6 slide baskets |
| 920079 | Collector for external vapout draining (Ø 100mm) |







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

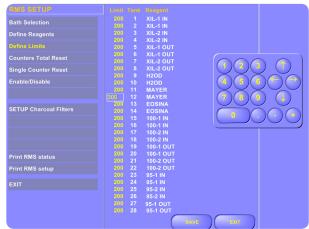
It is possible to define up to 18 different staining protocols.

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

| Tipology | Instrument Code Slide type | Automatic slide stainer 920004 Glass slides DxL 25x75 mm - 1,15 mm thick |
|------------------------------|---|---|
| Controls Features | Stiaining protocols Immersione time Basket dripping Password | 18 programs with 25 steps Programmabel from 1" to 99'59". Is is possible to define 3 different time prority: OPEN (no limit), FLEX (10% tolerance), EXACT (to be respected exactly) Programmable 1 livel, with selectable instrument different functions protection |
| Internal composition | Reagent stations Rinse stations Loading stations Unloading stations Heated stations Reagent Agitation (Optional) Reagent management | 28 (485 ml capacity) 5 (with pressure and flow regulator) 2 3 2 (60°C ±1°C) (Opt. 920.091) Continuous vertical up/down movement 28 tanks (Opt. 920092) Micro-vibration system of the 28 reagent tanks (Opt. 920093) RMS: complete control on reagent and charcoal filters. Specific charcoal filter, with |
| Productivity | | 10 basket of 30 slides maximum, with the same protocol |
| Hardware & Software features | Monitor USB port Newtwork Alarm Operative System CPU-UPS UPS | Monitor LCD TFT Touch screen 15" 4 x USB ports (for data transfer, backup, UPS, keyboard) 2 x Lan Port (Ethernet, LIS system) Free contact (48V AC/DC max 1A). Windows 7/10 Embedded Integrated UPS (only for CPU and Monitor) External dedicated UPS (Opt. 3UPS02) |
| Working environment | Temperature / Humidity | 15 ÷ 30 °C / 70% max |
| Electrical data | Power supply /Frequence Electrical power | 115/230 VAC 50/60 Hz 500 W (850 W with Slide Dryer Module - Opt. 920091) |
| Approvals | CE, cTUVus | UL61010-1:2004 R10.08 – IEC 61010-2-010:2003 IEC 61010-2-101:2002 CAN/CSA-C22.2 NO. 61010-1-04+GI1 (R2009) CAN/CSA-C22.2 NO. 61010-2-010-04 (R2014) CAN/CSA-C22.2 NO. 61010-2-101-04 (R2014) |
| Dimensions and weight | Dimensions (LxDxH) Worktop (LxD) Weight | 1220 x 770 x 780 mm - Monitor (L) + 400 mm 1220 x 770 mm 155 kg |





Agent / Dealer:

INTELSINT Srl





