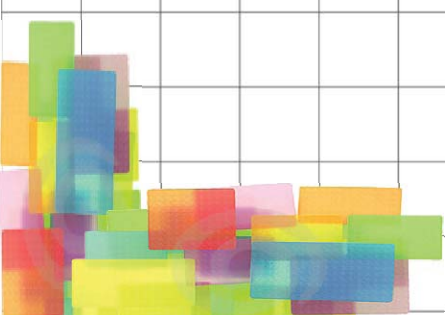


AUS 1

AUTOMATIC SLIDE STAINER

Automatic Slide Stainer
with XY translator
Completely programmable
Multi-basket-protocol
for Histology and Cytology
Slide staining



The IntelsintAUS1 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 input and 3 output tanks on a sliding-drawer with baskets sensors, the remaining 2 positions of the front row are fitted with water tanks. 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 ad hoc software is under development. The HMI is clear and intuitive. Standard keyboard and mouse can be connected for who does not prefer touch screen.

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).



SP	TK	REAGENT	TIME	TYPE	DRIP	Protocol	EQUIVALENTE OK
1	39	dryer	180	OPEN	0	STATUS	Modify Protocol
2	1	Xil1 In	05:00	OPEN	0	TOTAL TIME	49:29
3	3	Xil2 In	05:00	FLEX	10		
4	15	100_1 In	02:00	FLEX	0		
5	17	100_2 In	02:00	FLEX	0		
6	23	95_1 In	02:00	FLEX	0		
7	25	95_2 In	01:00	FLEX	10		
8	9	H2Od	04:00	FLEX	10		
9	11	Mayer	05:00	EXACT	10		
10	29	water	05:00	FLEX	5		
11	13	Eosina Alc	05:00	EXACT	10		
12	27	95_1 Out	01:00	FLEX	0		
13	19	100_1 Out	01:00	FLEX	0		
14	21	100_2 Out	01:00	FLEX	10		
15	5	Xil1 Out	01:00	FLEX	0		
16	7	Xil2 Out	03:00	FLEX	5		

Bath schemes and staining protocols programming

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 28 steps.

- Each step is made by:
- reagent tank number (tank position)
 - time in seconds
 - time type (Open-Flex-Exact)
 - drip time

Optimized Protocols Scheduling

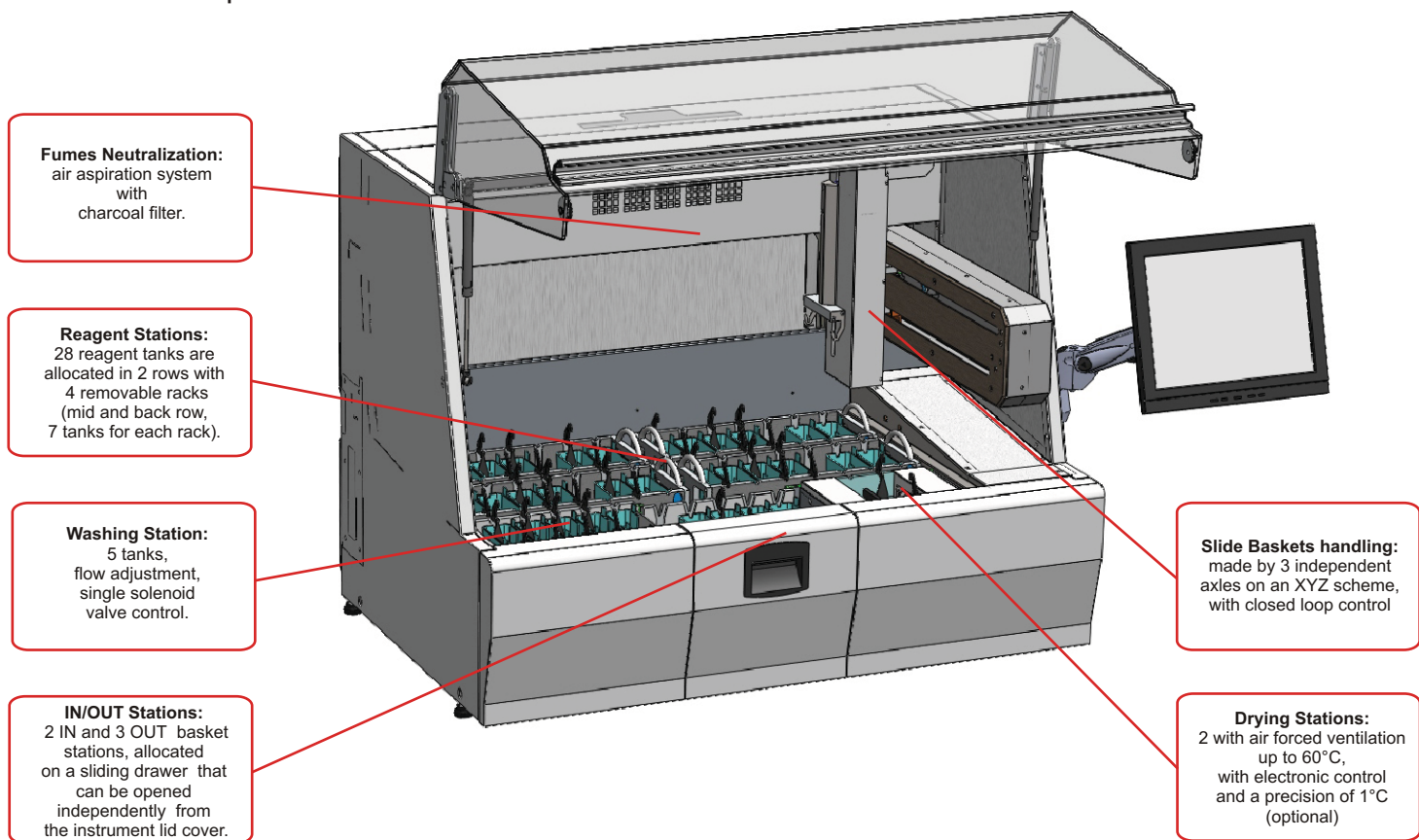
Thanks to complex software algorithms the p order to achieve the highest possible throughput scheduled and studied allowing the end-effect

AUTOMATIC SLIDE STAINER

tection.

ble racks (mid and back row, 7 tanks for each rack), an additional front row contains 5 tanks for flowing water, 2
tted with warm air slide dryers.

Advanced software handles multiple staining protocols and bath schemes, with a graphic representation of the
ot like touch-screen operations.



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..

REAGENT MANAGEMENT			
RMS Bath Selection	Limit	Tank	Reagent
	100	1	Xii1 In
	100	2	Xii1 In
RMS Define Reagents	100	3	Xii2 In
	100	4	Xii2 In
RMS Define Limits	100	5	Xii1 Out
	100	6	Xii1 Out
RMS Counters Total Reset	100	7	Xii2 Out
	100	8	Xii2 Out
RMS Single Counter Reset	50	9	H2Od
RMS Enable/Disable	50	10	H2Od
	50	11	Mayer
	50	12	Mayer
Charcoal Filters Setting	50	13	Eosina Alc
	150	14	Eosina Alc
	75	15	100_1 In
	75	16	100_1 In
	75	17	100_2 In
	75	18	100_2 In
	75	19	100_1 Out
	75	20	100_1 Out
Print RMS status	75	21	100_2 Out
Print RMS setup	75	22	100_2 Out
	100	23	95_1 In
	100	24	95_1 In
	100	25	95_2 In
	100	26	95_2 In
	100	27	95_1 Out
	100	28	95_1 Out
EXIT			

1234567890-+↑↓←→

SAVEEXIT

protocols/baskets scheduling is optimized in
ut. All basket handling phases are previously
for time best usage.

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.

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

Technical data

Dimensions (L/D/H):	1.150 / 770 / 900 mm, with monitor: + 400 mm lenght
Weight:	190 kg (dry)
Electrical Power:	115 - 240 V - 50/60 Hz - 800 VA
Flowing Water:	2 connections for external flowing water supply and water disposal.
Certifications:	CE/IVD/UL (ISO9001 manufacturing company certificated)



Management
System
ISO 9001:2008
www.tuv.com
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