

Dante Embedding Module

Dante Embedding Module

Code SDSDC9000

Manufacturer: Diapath S.p.A.

Made in Italy

GENERAL FEATURES

Dante Embedding Module has been designed to facilitate the work of laboratory professionals in embedding histological specimens.

The linear design is free of obstacles or encumbrances, and equipped with tools capable of satisfying the comfort needs that the operator requires to support a work phase, which is full of repetitive movements and precision movements, such as that of the embedding of samples.

The structure is made up of specially selected materials to ensure durability over time.

In fact, the hot plate has a patented surface treatment capable of ensuring maximum protection against corrosion, wear and abrasion, allowing easy cleaning of the worktop even at low temperatures.

1. Functions:

- Highly comfortable, linear and ergonomic design, free from encumbrances capable of supporting routine activities, equipped with a forearm support area in order to guarantee the operator a support away from heat sources
- Heated containers designed on the right and left of the instrument for housing molds and cassettes at a distance that allows the correct postural alignment of the operator for the entire duration of the work cycle
- Trays for removable cassettes and mold holders
- Drawers for collecting excess paraffin with removable drawers
- Large work surface, which allows to comfortably embed a large amount of samples
- Hot plate with surface treatment able to guarantee maximum protection against corrosion, wear and abrasion, allowing easy cleaning of the worktop even at low temperatures
- Wax reservoir equipped with microfilter able to block any impurities that may be present in paraffin grains, or that accidentally enter into the wax reservoir
- Rapid melting system of solid paraffin able to facilitate dispensing 30 minutes after switching on
- Effective paraffin drainage system, which prevents it from accumulating on the work surface
- Heated and removable forceps holder with 6 housings for forceps of different sizes that offers the possibility of carrying out an accurate cleaning of the same by means of a dedicated opening compartment in order to avoid potential "carry over" phenomena caused by residues of fragments of fabric
- Cold spot, cooled by means of a Peltier element, capable of accommodating even mega-cassettes
- LED lighting system with adjustable intensity
- Possibility of activating the dispensing of liquid paraffin in three ways: via manual dispensing lever, via ultrasonic sensor capable of detecting the presence of the mold and via foot pedal
- Modulation of the paraffin flow rate by means of an adjustment lever
- Digital adjustment and display of all working temperatures on the comfortable 4.3 "capacitive touchscreen display
- Programming of days and hours of automatic switch-on for the working week
- Possibility to view the instrument status through the colorimetric system of the display

2. Capacity and productivity:

- | | |
|--|-----------------------------|
| • Paraffin reservoir capacity: | 6L |
| • Paraffin flow from the dispensing point: | Adjustable |
| • Mold container capacity: | Over 350 standard molds |
| • Cassette container capacity: | Over 192 standard cassettes |

3. Technical features:

- | | |
|--------------|-----------------------------------|
| • Weight: | 30 Kg |
| • Voltage: | 230 V \pm 10% - 110 V \pm 10% |
| • Frequency: | 50-60 Hz |

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4. Features of the installation surface:

- Installation on a flat, stable and vibration-free surface
- Minimum size: 600Lx590W mm

FEATURES OF USE



Ergonomics and user comfort

- Diapath is careful to meet the needs of the end user, and for this reason it has developed measures to improve the interaction between the operator and the embedding module with the aim of improving posture and **protecting the musculoskeletal system** of the healthcare professional **over time**
- The linear worktop has been designed to **reduce unnatural movements of the operator**, allowing maximum ease and fluidity of movement.

- The arrangement of the various areas of the embedding module and respect for distances are the starting points for making the embedding phase a fluid and comfortable activity.

Touchscreen display and status "color screen"

The 4.3" color touchscreen display is capacitive and can be used with different types of gloves (vinyl, nitrile, latex).

The capacitive display guarantees

- **Touch sensitivity:** it is sufficient to approach the finger without pressure to obtain the interaction with the system;
- **Less wear:** glass display that guarantees excellent resistance
- **Better visibility:** excellent visibility and transparency thanks to the use of glass



Moreover, thanks to the status "color screen" function, the instrument display will show a different color according to the instrument status



Traceability

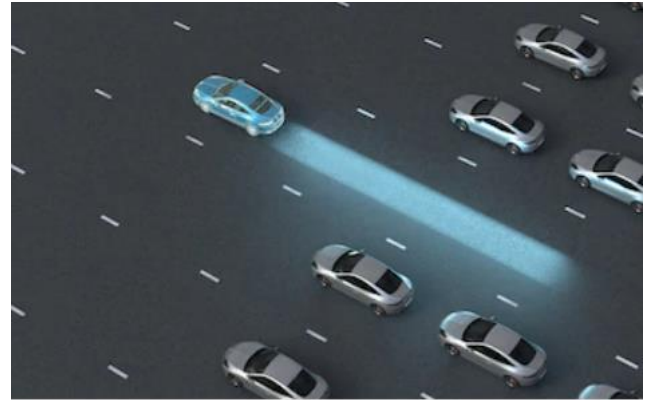
RFID technology, integrated within the Dante Embedding Module, allows tracking of the batch, of the expiration of the paraffin used and of the operator who performed the operations. This requirement has been conceived in accordance with the ISO Standards and with the regulatory aspects related to the tracking of reagents used in diagnostics.

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Increased autonomy

Thanks to the considerable capacity of the melting tank, it is possible to increase the autonomy of the instrument by 35% compared to the standards on the market and to reduce filling operations to the minimum.

To make it easier to monitor the amount of paraffin available, Diapath has developed the "REFILL" function that "visually" communicates with the operator via a specific icon on the display with paraffin filling alerts.



"Easy to use" user interface

The color touchscreen display is equipped with **user-friendly icons** developed according to the operator's needs. A simple and clear user interface for managing the various functions listed below



USER ID ICON: possibility to identify individual users through the LOGIN User



TEMPERATURE ICONA: display and management of the temperature set for the heated or cooled zones



ALARMS ICON: MENU for displaying the instrument ALARMS



CALENDAR PROGRAMMING MENU: MENU for programming the automatic switching on/off of the instrument, based on a weekly calendar



GREEN REFILL ICON: indicates that the level of paraffin inside the wax reservoir is suitable



RED REFILL ICON: indicates that the level of paraffin inside the wax reservoir is not suitable and it is necessary to fill the reservoir



BOOST ICON ACTIVATED: "turbo" function for rapid melting of paraffin is enabled



BOOST ICON DEACTIVATED: "turbo" function for rapid melting of paraffin is disabled



STATISTICS ICON: display of statistics concerning instrument functioning



GENERAL SETTINGS ICON: MENU for managing the general settings (language, screen brightness, background color, etc.) of the instrument



CUSTOMIZED SETTINGS ICON: MENU for managing the general settings of the instrument with the possibility to customize and save them for each user profile (language, screen brightness, background color, light intensity of the worktop)



ECOFRIENDLY ICON: display of instrument "GREEN" performances

User customized settings

The user ID allows easy access to customized settings by creating a profile tailored to the operator who logged in.

User and Avatar LOGIN

The User can choose an Avatar and access the customized settings



- **Customized language setting:** based on the operator who has logged in, the instrument will automatically set the language to the preferred language
- **Customized brightness and background display color settings:** based on the operator who logged in, the instrument will automatically set the preferred brightness and background
- **Customized LED light intensity settings:** based on the operator who logged in, the instrument will automatically set the intensity of the preferred work light

A new dispensing system

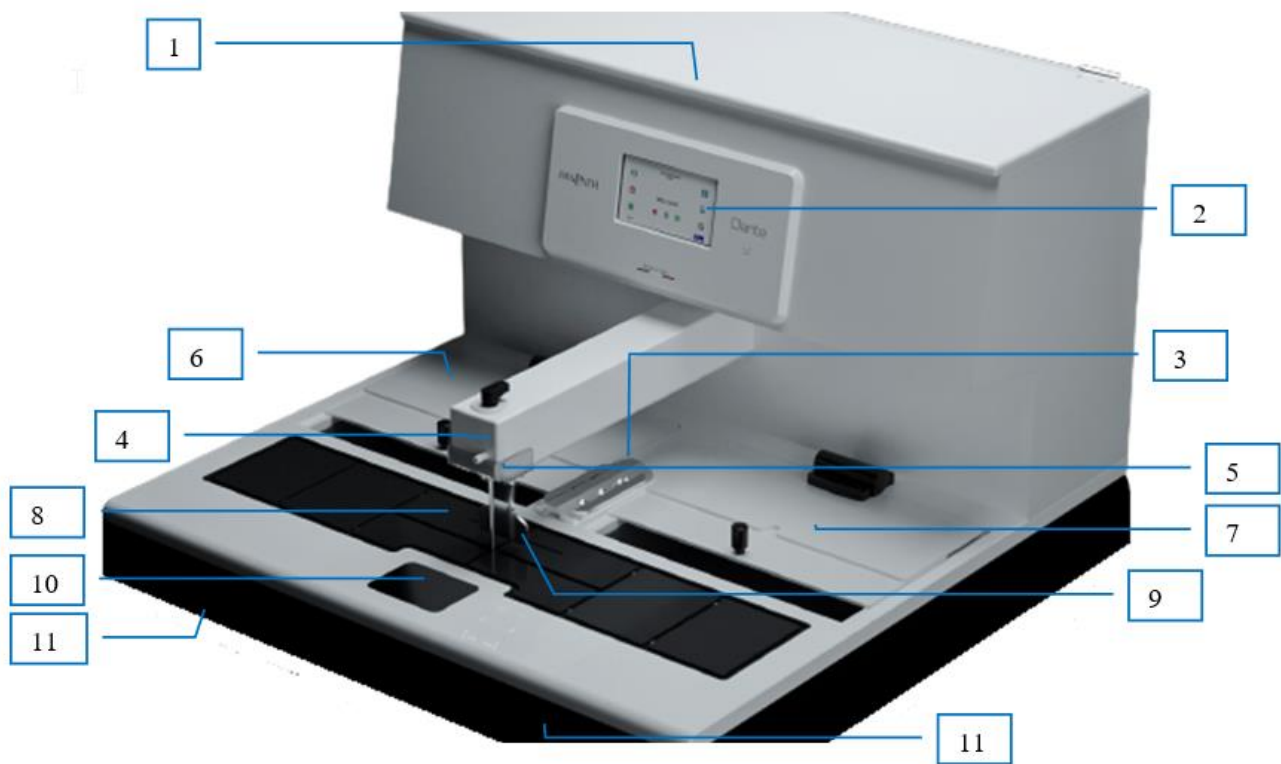
Dante Embedding Module is equipped with three different dispensing systems:

- **Manual lever** allows dispensing of liquid paraffin by manually pressing the lever
- **Foot pedal** allows dispensing of liquid paraffin by pressing the foot on the pedal
- **High precision ultrasonic sensor** allows automatic dispensing of liquid paraffin without further action by the operator

The innovative ultrasonic sensor is able to detect the presence of the mold and automatically dispense the paraffin allowing the reduction of repetitive movements related to the dispensing of paraffin in manual mode or with pedal.

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1. 6L reservoir for paraffin (adjustable temp. +50°C/+75°C)
2. Capacitive touchscreen with 4.3" LCD
3. Heated forceps holder
4. Sensor for dispensing paraffin
5. LED light with adjustable intensity
6. Heated container for molds/cassettes (adjustable temp. +50°C/+75°C)
7. Heated container for molds/cassettes (adjustable temp. +50°C/+75°C)
8. Heated plate
9. Spatula for dispensing paraffin
10. Cold point (adjustable temp. -5°C/+5°C)
11. Drawers for collecting excess paraffin

DIA PATH

AVAILABLE MODELS

Dante Embedding Module 230V – 110V

CODE SDSDC9000

AVAILABLE ACCESSORIES



Diaforceps Advance heated forceps 2 mm

CODE 53DBF500



Diaforceps Advance heated forceps 1 mm

CODE 53DBF505



Heated forceps 2 mm tips compatible with Diaforceps Advance

CODE 53DBF020



Heated forceps 1 mm tips compatible with Diaforceps Advance

CODE 53DBF010



One-button foot pedal to operate the paraffin dispenser

CODE SDCOP9014



Magnifying glass with LED light

CODE SDSDC0053



Halogen table lamp

CODE SDXLA0000



Wax scraper

CODE GP14010



Paratrimmer

CODE SDSDC0051



Tissue Tamper

CODE SDSDC0052

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TECHNICAL FEATURES:

Reservoir capacity (liquid paraffin):	6 Liters
Reservoir capacity (paraffin in grains):	3.2 Kg
Paraffin melting:	possibility of dispensing 30 minutes after switching on
Hot point temperature arrangement range:	+50°C to +75°C
Cold point temperature arrangement range:	-5°C to +5°C
Hot plate dimensions (LxW):	540x110 mm
Cold plate dimensions (LxW):	75x55 mm
Mold container capacity:	Over 350 standard molds
Cassette container capacity:	Over 192 standard cassettes
Lighting:	LED, adjustable
Voltage:	230 V~ ±10% 110 V~ ±10%
Frequency:	50-60 Hz
Power:	300 W (average)
Operating temperature:	From +20°C to +30°C
Maximum operating humidity:	10% to 80% non-condensing
Certifications:	CE – IVD - TUV

Dimensions and weight:

Dimensions:	600Lx590Wx410H mm
Dimensions (with open reservoir lid):	600Lx590Wx630H mm
Weight:	30Kg

Accessories supplied with the purchase:

Wax scraper