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Living the innovation in Gastroenterology

IR200

Automatic infrared analyzer with Android OS for the detection of Helicobacter pylori



- Small-sized, compact device
- LCD touch screen display
- Simple and intuitive user interface
- Automatic calibration
- No limit on the number of daily tests

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IR200



Operating principle

The instrument operates through the absorption of infrared light in the mid-infrared spectrum, ranging from 2 to 8 micrometers in wavelength (NDIR – Non-Dispersive Infrared Spectroscopy).

The high selectivity of the infrared sensors is achieved through the saturation of the $^{13}CO_2$ and $^{12}CO_2$ components. Cross-sensitivity between ^{13}C and high concentrations of ^{12}C is reduced thanks to a gas filter for $^{12}CO_2$ in the $^{13}CO_2$ channel and a mathematical algorithm.

The unit consists of a host system that includes a control panel, optical path, air channel, and a micro-printer (with the option to connect an external printer).

The sample gas collection bags are connected directly to the device via specific ports located on the front panel.

Technical features

- Small-sized, compact device (480x230x370 mm)
- Android Operative System
- Results available within 3 minutes
- Automatic calibration at no additional cost using 5% CO_2 exhaled by the operator
- LCD touch screen display
- Patient data entry via alphanumeric on-screen keyboard
- USB port; possibility to export the database in Excel format via USB key
- Patient search function
- Additional software for reporting and patient data archiving
- Auto-check for evaluating the $^{12}C/^{13}C$ voltage
- Automatic air circuit cleaning after each test Two-channel sampling (time 0 – time 30)
- Built-in micro-printer
- Report includes DOB and result (positive/negative) on thermal paper
- Option to display “Delta 0” and “Delta 30” on screen
- No limit on the number of daily tests
- Rear filters for CO_2 and dust, easy to replace and empty
- Sensitivity and specificity > 95% / Precision: 0,3 ‰
- Sampling via 120 ml aluminum bags with screw cap
- Latest generation infrared reading system (NDIR)
- Specific for the analysis of Urea Breath Test
- Non-invasive, non-radioactive, suitable for all ages as well as pregnant women

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