



Fact sheet

ids i20[®]

Samples/reagents management

Samples

- 90 positions for samples, calibrators and controls (9 racks with 10 positions)
- 60 positions for samples, calibrators and controls (6 racks with 10 positions) with track connection
- Default sample tube library: Primary tubes: 5 ml (13 x 75 mm), 7 ml (13 x 100 mm), 10 ml (16 x 75 mm)
- Secondary tubes: 5 ml (13 x 75 mm)
- Micro cups: 500 µl, 2 ml
- Other sample containers can be defined by the user
- Continuous loading, batch mode and STAT function
- Automatic reading of barcoded sample tubes (positive identification)
- Barcode types: Code 2/5, EAN/UPC, Code 39, Code 128 and Codabar
- On-board dilution and automatic pre-treatment

Reagent compartment

- Up to 20 reagent cartridges (immunology)
- Up to 80 reagent vials (spectrophotometry)
- Up to 171 specific antigens + 1 total IgE cartridge (allergy)
- Management of multiple same reagent vials
- Automatic reading of barcoded reagent (positive identification)
- Onboard storage: 12–15 °C

Sample handling

- Liquid level detection by capacitance (samples and reagents)
- Clot detection (by pressure transducer)
- Internal and external rinsing between each pipetting of sample
- Possibility of specific rinses using decontaminating solution
- Preheating of sampling (reagents & samples)
- Sample volumes: from 4 µl to 300 µl (assay dependent)

Carousel

- Temperature regulated at 37 °C ± 0.5 °C
- 72 positions for disposable cuvettes
- 4 independent washers

Cuvette loader

- Preheated loader
- Refill with cubes of 960 disposable cuvettes each
- Up to 1120 cuvettes on board

Waste collection

- 10 litres container for liquid waste
- Solid waste (cuvettes) using disposable waste bags (up to 650 cuvettes)

Detection

Spectrophotometer

- Spectrophotometer with LED technology
- 13 wavelength interferential filters: 340, 405, 450, 500, 540, 550, 580, 600, 620, 650, 700, 750 and 880 nm
- Linearity: up to 3 Abs
- Optic path of cuvettes: 0.8 cm

Luminometer

- Photomultiplier 300 to 500 nm
- Linearity $R^2 > 0.95$ up to 625k RLU

Connect with us

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Regulatory status of the products must be verified for the user's individual jurisdiction. Please contact your country representative for product availability and information.

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Throughput

- Random access
- Time to first results: <25 minutes (assay dependent)
- Up to 150 tests/hour (assay dependent)

Graphic user interface and computer

GUI

- Modern look and feel
- One-screen run monitoring
- Touchscreen friendly
- User role management
- GDPR compliant
- Cybersecurity UL 2900-1 compliant
- Microsoft BI reporting
- Full traceability
- Reagent stability management
- Bidirectional connection to Laboratory Information System (LIS)

Computer

Minimum configuration required:

- Operating system: Windows 10 or Windows 11
- Microprocessor: Intel Core i3 12th Generation or higher (4 cores, 12 MB cache), 3.3 to 4.3 Giga Hertz (GHz)
- Live memory: DDR4 3200 MHz, 8 GB min., 16 GB preferred
- Hard disk: 1 TB preferred
- Ethernet: 2 independent Ethernet network adaptors
- Ports: USB ports (min 5) ; 1 USB C port recommended ; 1 HDMI or Display port
- Input devices: USB keyboard (country specific), mouse
- Screen: 19 to 25 inches (touchscreen) monitor, speakers integrated
- Screen resolution: 1920 x 1080 pixels
- Screen compatible with VESA1
- Peripherals: CD reader, integrated graphics device

System

Dimensions

- Size (W x D x H) 134 cm x 66.7 cm x 160 cm
52.8 inches x 26.3 inches x 63 inches
- Weight: >245 kg ; <320 kg ; >540 lb ; <705 lb
- Basis weight: >129 kg/m² ; <369 kg/m² ; >57.7 lb/ft² ; <75.3 lb/ft²

Power supply (excluding computer)

- Voltage: 100 – 240 V
- Frequency: 50 – 60 Hertz
- Maximum power consumed: 700 VA (2389 BTU/h or 167 cal/s)

Environment

- Sound level: <72 dB
- The surrounding temperature must be between 18 °C and 30 °C
- Relative humidity must be within 20 and 80% (non-condensing at 25 °C)

Ordering information

Product name	Code
IDS i20	IS-910400