GC-Processor

Walk-away analyzer for Immuno-hematology applications in GEL CARDS



Main features

Suitable for ABO/Rh grouping, antibody screening, phenotyping and cross match testing

Multi probe fast pipetting system

Safe processing through the on-board barcode reading and consistency checks

Fully programmable test layouts

High resolution Gel Card image capturing and storage in archive repository

Automatic result interpretation for standard and proprietary reactions type

User-friendly windows base interface

Local worklist and communication with host PC

Throughput and processing

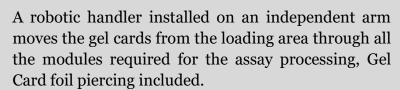


Available with 2 or 4 pipetting probes, GC Processor is a suitable solution for medium labs requiring a safe and fast processor hosting 80 samples and 120 gel cards in 112 cm long platform.

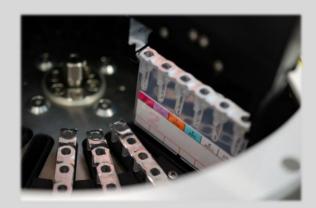
The washable tips are fully independent on Y / Z axis, provided with a capacitive liquid detection sensor.



Samples are sourced from primary tubes through predilution performed in deep well tubes or standard microtiter plate format.







The assay run is optimized by the processing of "batch" with up to 24 Gel Cards. Each batch is moved to the centrifuge after the dispensing in order to allow the simultaneous dispensing of a new batch of Gel Cards.

The incubation of the Gel Card takes place in a dedicated device which hold the entire column at 37°C temperature.

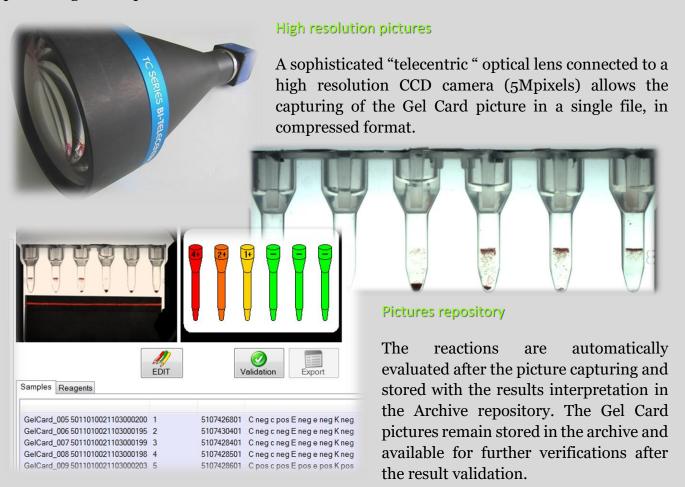
Safety and precision

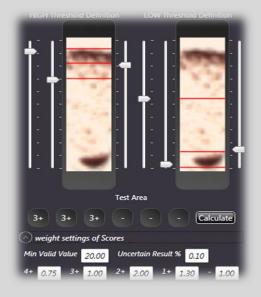
The excellent pipetting precision is guaranteed by the innovative "mini toothed wheel" pumps, which don't require maintenance or replacement parts. The sample and reagents dispensing is "carry-over" free through a secure decontamination procedure of the dispensing tips.



The on-board barcode scanners allows a safe of samples testing, alerting the user when incorrect or expired reagents/Gel Cards mismatching the worklist in process.

The front protection shield is connected to a locking system sensor which stops the analyzer processing when opened.





Flexible Interpretation

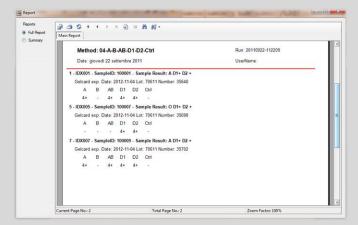
The result interpretation is based on a flexible algorithm whose parameters can be adapted to different type of agglutination reaction.

A dedicated interpretation settings can be assigned specifically to each Gel Card type, depending on the sensitivity of the reagents and related reaction scores.

Protected data

The access to the application interface (login) is protected by user ID and PW. Different user and privilege can be defined by the GSG LogInManager program.





Validation and reporting

The result elaboration can be confirmed or modified through a validation process before to generate the reporting or send the result to an external host-PC.

The result print out is available in different format customizable by Crystal Report software. Reporting can be also saved as a file in the most common file format (PDF, XLS, DOC etc.).

Technical specifications

BAR CODE READING	Semi-automatic system for BARCODE identification for sample tubes, reagents.
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Automatic BC reading for Gel Cards.

Most commercially available bar codes can be read.

Max digits: 20.

80 to 100 sample tubes (depending the configuration), in linear rack with 20 tubes

each.

Tubes size between 10 to 16 mm.

REAGENTS Up to 20 reagents on 2 linear rack (barcode reading available on demand).

2 becher style (120 ml) and 3 trough (50ml) for sample diluent containers.

2 or 4 washable tips (dispensing probes), Tips are fully independent on Y and Z axis.

Variable Tips Spacing from 9 to 350 mm.

LIQUID DETECTOR Capacitance, independent detector for each tip. Liquid, bubble and clot detection.

CARRY-OVER Around 10-6 according to the washing cycles and the reagents typology.

PUMPS 4 High precision mini toothed wheel pumps for precision liquid handling.

Volumes from 1µl to 1ml.

VOLUMES Minimum sample/reagent volume 5μl.

Maximum sample/reagent volume 1ml.

INCUBATOR 24 Gel Cards positions at 37°C.

CENTRIFUGE 24 positions Gel Cards, between 100....1.200 rpm selectable by software.

Centrifugation time (5.....32.400 seconds).

GEL CARD READER 5 M pixel CCD camera connected to a "telecentric" optic.

COMPUTER REQUIREMENTS Dual core i5/i7 or higher – 2 USB port min.

Windows XP or Windows 7 operating system.

OPERATING CONDITIONS Temperature: 15°C to 30°C/60°F to 85°F.

Relative humidity: 10 - 85% at 30° C/ 85° F or below.

INTERFACE Through 2 USB plugs (analyzer control and Gel Card reader's camera).

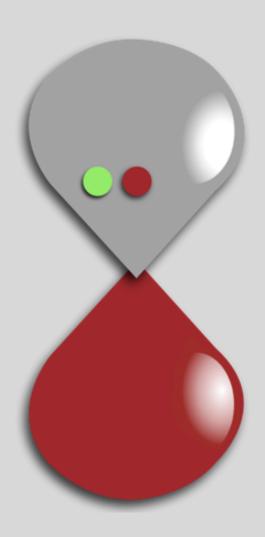
WEIGHTS AND Net Wt. Kg 80.

DIMENSIONS Width 1120, Depth 850, Height 850.

NOTE: PC not included.



a new experience in lab automation



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