Specifications

CONTINUOUS SAMPLE LOADING

- 50 sample tubes on-board, on 5 sample trays
- No dedicated STAT position
- Convenient for all types of tube including pediatrics and eppendorfs

COMPREHENSIVE REAGENT MANAGEMENT

- Real continuous loading with positive barcode identification
- Monitoring of reagent volume, expiry and on-board stability
- Accomodates all size of reagent vials
- 31 on-board reagents with 22 in cooling area and 3 stirred positions

MULTIPLE MEASURING TECHNOLOGIES

- Flexibility to choose mechanical or optical clotting method
- Chronometric, Chromogenic and Immunoturbidimetric assays

LOW OPERATING COST

- System Fluid: DI water
- Assay-dependent pipet probe cleaning, using one single cleaning solution
- Versatile cuvette tray: eliminates waste
- Reduced training requirement
- Minimal maintenance: < 5 min daily

TEST MENU	
Mechanical clotting assays	Yes
Optical clotting assays	Yes
Chromogenic assays	Yes
Immunoturbidimetric assays	Yes
Continuous sample loading	Yes
Continuous reagent loading	Yes
Continuous cuvette loading	Yes
Sample loading capacity	50
Loading capacity reagents	31
Loading capacity cuvettes	440
STAT sample processing	Any time, any position
Calibrator processing	Any time, any position
QC sample processing	Any time, any position
Sample ID barcode	Yes
Reagent ID barcode	Yes
Throughput	
PT	up to 180 Tests/hour
aPTT	up to 90 Tests/hour
PT/aPTT	up to 116 Tests/hour
PT/aPTT/FIB	up to 98 Tests/hour
Assay calibration	During routine processing
Factor parallelism	Yes
Multiple dilutions/sample	Yes

TEST MENU	
Automatic repeats	Yes - user definable
Automatic re-dilution	Yes - user definable
Reflexive testing	Yes - user definable
Real time validation	Yes - user definable
QC program	Yes - Levey-Jennings charts and monitoring for Westgard rule violations
Bi-directional interface	Yes
Host query function	Yes
PC	Integrated
Monitor	Colour touch screen
Keyboard	Yes (external)
Mouse	Yes (external)
Printer	Yes (external)
Remote diagnostics	Yes (integrated modem)
User Interface Software	Windows® based, icon prompted
Dimensions (Analyser)	71 x 84 x 68 cm (H x W x D)
Weight (Analyser)	65 kgs
Voltage	100-240 VAC; 50 Hz/60 Hz
Power consumption	250 VA
Noise levels	< 78 dB
Operating temperature range	10-32°C

DestinyPlus™

Higher efficiency - Lower operating cost

DestinyMax™

DestinyPlus™

Reagents

For further information, please contact:

Tcoag
Your Coagulation Company

Tcoag Ireland Ltd.
IDA Business Park
Southern Cross Road
Bray, Co. Wicklow
Ireland
Ph.: +353 1 274 32 00
Fax: +353 1 274 66 78
info@tcoag.com
www.tcoag.com

Tcoag

No volume too small, No demand too large

The Destiny Plus™ has its origins in the time-tested mechanical method developed by Heinrich Amelung in 1950. Tcoag has designed a family of platforms that still employ the latest evolution of this patented technology, combined with state-of-the-art optics and algorithms. The Destiny Plus™ mechanical clot detection is insensitive to biphasic algorithm abnormalities, thus reporting the correct result the first time, every time.

The small footprint of the Destiny Plus™ means that even the most confined laboratory has the possibility for a fully automated coagulation system; there is no need to sacrifice menu for lack of space. All of this allows the Destiny Plus™ to deliver complete flexibility for every test from the PT to the D–Dimer – a perfect fit for the most demanding laboratory!

The demand for rapid, accurate patient results from today's clinician requires a complete solution for the Haemostasis Laboratory. The **Destiny Plus**™ represents the ultimate in the fusion of technology and economy for coagulation automation in the mid to large-sized, routine or specialty laboratory. The unique combination of key features includes:

- Patented Ball Method Mechanical Testing technology
- STAT results on-demand in under three minutes
- IntuiTouch user-friendly software with integrated reflexive testing
- Comprehensive test menu including clotting, chromogenic and immunoassay analysis

Measuring Modes

MECHANICAL MEASURING MODES

- TRUE mechanical measuring mode, the "Gold standard" - developed and perfected by Amelung
- Reliable, accurate results on compromised samples - icteric, haemolytic, lipemic and medicated
- No interference through biphasic reactions

OPTICAL MEASURING MODES

- Optical clot detection
- Chromogenic assays
- Immunoturbidimetric assays

1 FRESH AND WASTE FLUID CONTAINERS

The containers each have a capacity of 2 litres, minimizing hands-on time to once-daily empty and fill. Quick-release tubing connectors are easily accessible. Continuous real-time monitoring of fluid levels provides an audible and visual warning before filling levels become critical. Automatic system prime after refill ensures precise and accurate sample and reagent pipetting.

2 DILUTOR SYSTEM

Precise and accurate Cavro® syringe dispensing system with minimum volume capacity of 3 µl. Syringe has easy accessibility for service and maintenance.

3 SAMPLE/REAGENT PROBE WITH LIQUID-LEVEL SENSING

The probe warms the sample and reagent to 37°C. The operator is protected during normal operation by the Safety Shield and during maintenance by an additional Probe Guard. The capacitance liquid-level sensing system is designed to give ample warning to the operator when a reagent requires refilling. When multiple vials of the same reagent are on-board, the instrument will automatically move to the new vial when the first vial has been emptied.

4 CUVETTE TRAY WASTE

Cuvette trays are moved along the incubation rail and into the waste drawer when fully used. The drawer is easily and continuously accessible for emptying and the operator can either remove the liner for disinfection or replace as desired as a consumable item.

5 SAMPLE LOADING AND STORAGE STATION

50 samples transported on 5 sample trays can be loaded and stored at any one time. A signal light indicates when a sample tray has been completed and may be removed and replaced with a new sample tray, allowing continuous sample loading. Every position can be used as a STAT position, giving the operator anytime STAT access.

6 INTEGRATED BARCODE SCANNER

The integrated barcode scanner provides unique sample management with positive verification of sample positioning. With the safety shield in place, samples must pass the barcode scanner when loaded and unloaded, thus assuring positive identification.

7 TOUCH SCREEN

The system incorporates a simple touch screen with IntuiTouch access to the Windows®-based software. Clear and basic icons make operation easy for even the most infrequent users.

8 COM AND USB PORTS

Operator has ready access to USB port for easy back-up, restore, export of results data and software upgrades. Instrument also includes COM ports for connections to LIS.

9 CUVETTE TRAY LOADING AREA

The loading drawer will accommodate 10 cuvette trays; each tray contains 24 mechanical test wells and 20 multipurpose test wells. This total on-board capacity of 440 test wells maximizes walk-away time for the operator. A visual warning provides the operator with ample time to replenish cuvette trays before supply becomes critical. Continuous loading is possible with no interruption to sample processing.

10 ANALYSIS AREA

The transport rail moves the prepared cuvette tray to the measuring area. This measuring area has 4 mechanical and 4 optical measuring channels. The optical signals are read at 405 nm for all clot-based, chromogenic and immunoturbidimetric assays.

11 SAFETY SHIELD SENSOR

The sensor for the safety shield provides absolute security for sample and reagent positioning and identification. The instrument will not begin processing without the shield in place. If the shield is removed during operation, the instrument will immediately discontinue processing.

12 REAGENT LOADING AND STORAGE STATION

The integrated barcode scanner is also used for the identification of reagent trays and vials. With the safety shield in place, the reagents must pass the barcode scanner when loaded and unloaded. The reagent storage area includes 24 positions cooled to 12-16°C and 7 positions at ambient temperatures. Three of the cooled positions are also stirred by a magnet. Original reagent vials may be used with diameters varying from 12-35 mm; adapters are provided to adjust positions. Multiple vials of any reagents may be stored on-board simultaneously.