

- Typical throughput
- Typical reaction volume
- Dimensions
- Capabilities
- Pumps
- Probes
- Min. and Max. Volume
- Precision for volumes <5µL
- Precision for volumes >5µL
- Maximum number of specimens
- Maximum number of reagents
- Standard reagent rack
- Reaction vessel
- Instrument bottles
- EIA mode
- Thermal control
- Reagent cooling
- Wash head
- Programs
- Optical design
- Interference filters
- Linear Range
- Photometer Accuracy
- Format
- Supports
- Calculation modes
- Self monitoring modes
- QC options

General

Up to 200 endpoint reactions per hour, up to 170 kinetic reactions per hour.
 200µL or less.
 36.25"(92.1cm) width, 18.75"(47.6cm) height, 21.5"(54.6cm) depth.
 Approximate weight 80 lbs (36Kg).

Reagent and Sample Dispensing

Dilution, pre-dilution, dispensing single or multiple reagents.
 Two syringe pumps, sized 50µL and 2.5mL.
 316 stainless steel for maximum reagent compatibility, level sensing.
 2µL - 1.95mL
 <2.5% CV
 <1% CV
 96 (including calibrators and controls).
 Typically 27 to 44 or more (you can program reagents to go in the sample rack; assorted replaceable racks and custom designed racks are available for various bottle sizes).
 27 positions, other configurations optional.
 Standard microwells, strips or plates.
 2L wash with low volume warning sensor.
 1L rinse (or second wash) with low volume warning sensor.
 2L waste bottle with full sensor.
 1L priming bottle.
 Drain bottle (not supplied).

Incubating, timing, and temperature control

Incubation timing is software controlled and automatically optimized.
 Well, probe, and tubing; ambient or 37°C (other options also available).
 RCA, Reagent Cooling Accessory (optional) cools 12° to 15°C below ambient through Peltier thermoelectric modules connected to an external controller.

Washing

8-probe, automatic prime and rinse.
 Wash protocols are user-programmable for aspirate, dispense, soak, mix.

Reading

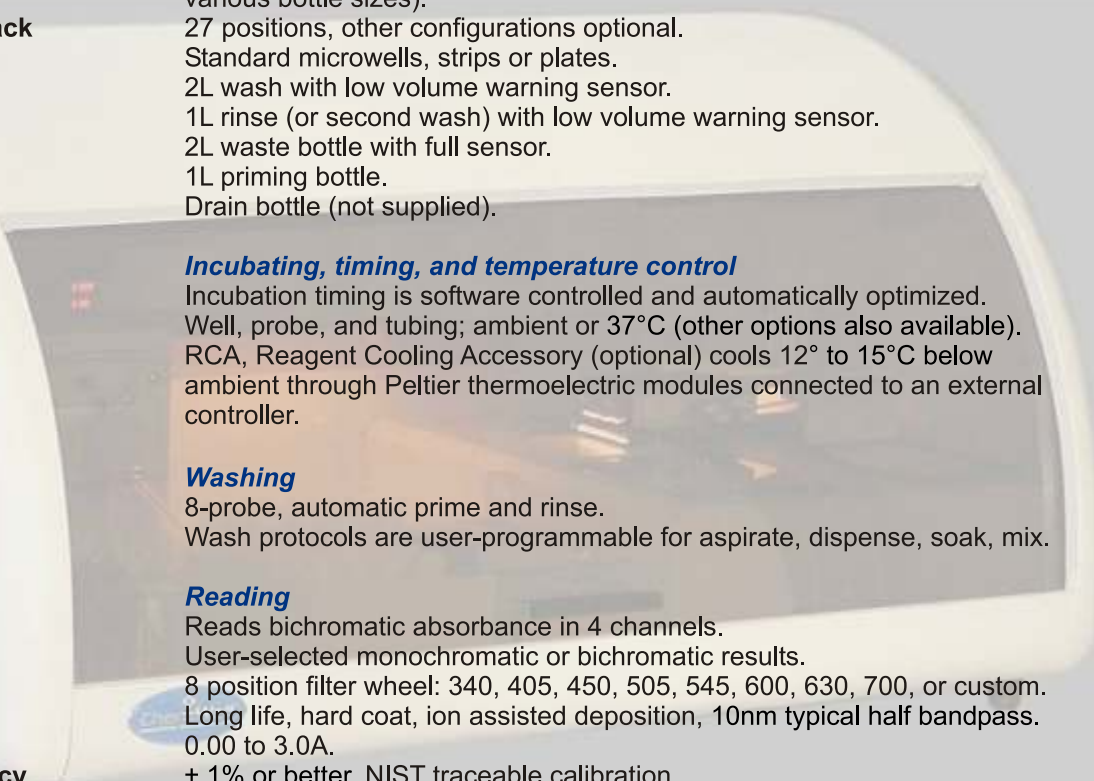
Reads bichromatic absorbance in 4 channels.
 User-selected monochromatic or bichromatic results.
 8 position filter wheel: 340, 405, 450, 505, 545, 600, 630, 700, or custom.
 Long life, hard coat, ion assisted deposition, 10nm typical half bandpass.
 0.00 to 3.0A.
 ± 1% or better, NIST traceable calibration.

Software

CD-ROM and internet upgrades.
 Windows® XP, Vista, or 7 with CD drive, serial or USB port (Computer not supplied).
 Absorbance, single standard, factor, fixed time kinetics, kinetics by multipoint, kinetics by standard or factor, multipoint, linear regressions, polynomial, cubic spline, 4-parameter, cutoff by absorbance or standard, and more.
 Lamp, bottle volumes, filters, pressure, vacuum, mechanical function, and more.
 Store control data, print Levey-Jennings or QC range plots.

Certifications

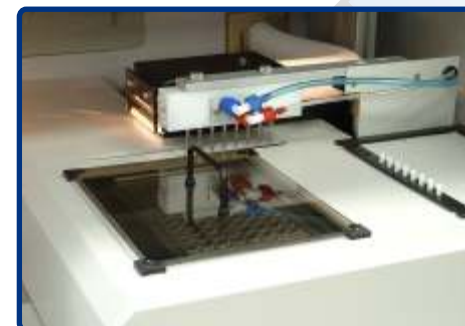
NRTL Listed, CE Marked.
 Awareness Technology is certified under ISO 13485:2003.



ChemWell® 2910

Biochemistry and EIA

combined in
 one modern
 system



ChemWell® 2910

For the modern laboratory



An open system you can program for the reagent applications of your choice

ChemWell® is a completely open system that is easy to program.

Set up assays, routine jobs, quality control, panels, even index calculations to suit your laboratory. A password system and log of changes protect your programs.

Choose from a large selection of monitoring and reporting styles.

Precise pipetting of low volume specimens, elimination of carryover, and careful control of temperature are all essential for reliable results.

ChemWell® can make pre-dilutions, however this is seldom necessary since a high level of precision is achieved even with a 2µL sample. Carryover is eliminated without the need for disposable pipet tips. A unique wash cup assures cleaning inside and out. In addition, extra washes may be programmed for any particularly sensitive assay. With a completely open system you can program additional wash volume, or increase the number of washes, or even direct the probe to pick up and dispense a probe cleaning solution after each specimen.

ChemWell® can process EIA's at ambient temperature or 37°C. An incubator is provided for biochemistry wells to assure precise kinetic reactions. The probe is also temperature-controlled to deliver 37°C reagents. An optional reagent cooling accessory (RCA) is available to protect reagents from ambient heat. Removable racks can be refrigerated, pre-loaded and ready for the next use.

27 reagents, 96 samples



probe washes inside and out



washes 8 wells together

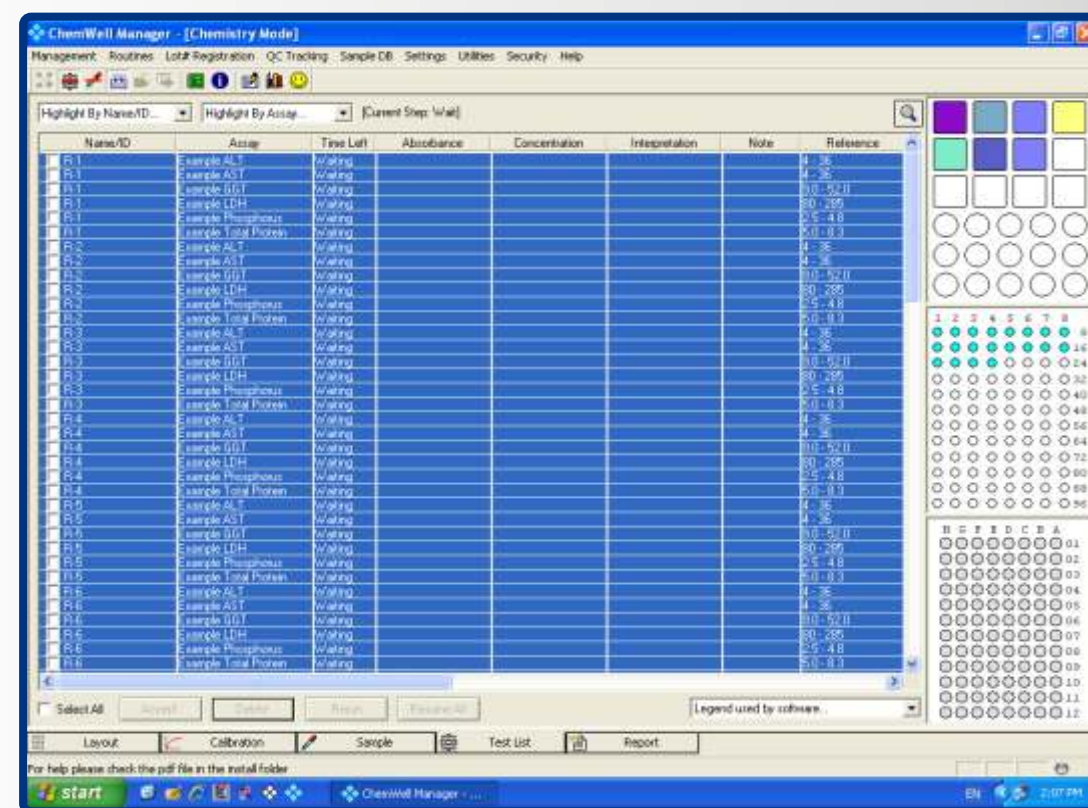


ChemWell® is designed and manufactured in the USA by Awareness Technology, Inc.
 PO Box 1679 Palm City, FL 34991 USA tel: 772-283-6540 fax: 772-283-8020
 email: info@awaretech.com website: http://www.awaretech.com
 ChemWell® is supplied only by qualified, factory-trained distributors.

ChemWell® is truly two instruments in one.

Set up a full or partial plate of enzyme immunoassays (EIA) and program ChemWell® to automatically make dilutions, dispense reagents, incubate, wash, read, and prepare final reports.

ChemWell® uses uncoated microwells to run low-volume samples for biochemistry reactions. Performing biochemistry assays in microwells offers many advantages, among which are increased throughput and decreased cost per test. The wells can also be washed for re-use. You can also program ChemWell® as a batch analyzer or a continuous loading random-access analyzer for performing clinical biochemistry tests. ChemWell® reads vertically using 4 optical channels and 8 wavelengths.



1. Choose chemistry or EIA mode.
2. Load reagents, samples, and microwells.
3. Select assays and report formats.

THE REST IS AUTOMATIC

ChemWell® 2910

For the modern laboratory

200 tests per hour
 No carryover
 Liquid-sensing probe tip

Easy to maintain
 Makes automatic service reports
 Low cost lamps

Reaction volume < 250µl
 No custom disposables
 IAD filters

Edit standard curves
 Self-monitoring mechanics and optics

Open system
 QC tracking
 Reflex testing
 STAT

8-well wash head
 Level-sensing wash, rinse, and waste bottles
 LIS

220 or 110 VAC input
 safety shields
 removable racks