

# Automated ELISA Programmable Analyzer

## Reagent and Sample Dispensing

Capabilities	Predilutions, dispensing single or multiple reagents
Pumps	Two syringe pumps, sized: 50µL and 2.5mL
Probe	316 stainless steel for maximum reagent compatibility, level sensing
Minimum and Maximum Volume	20µl – 1.95ml
Maximum number of specimens	Standard 66 (including calibrators and controls), optional 96 sample rack
Maximum number of reagents	Standard rack 28 reagent spaces, optional racks available <ul style="list-style-type: none"><li>• Assorted replaceable racks and custom designed racks are available for various bottle sizes.</li><li>• Reagents can also be programmed to go to the Sample rack.</li></ul>
Reaction vessel	Standard microwell plates or microwell strips
Instrument bottles	1L Priming bottle
Incubation, timing and temperature control	Thermal control: Plate/Well 25°C, 37°C, or ambient temperature <ul style="list-style-type: none"><li>• Temperature controlled to 25°C providing the ambient room temperature is below 25°C</li><li>• Refrigerated Reagent Rack (optional) cools 12° to 15°C below ambient through Peltier thermoelectric modules connected to an external controller</li><li>• Sample Rack is not temperature controlled</li></ul>

## Washing

Wash Head	8-probe, automatic prime and rinse
Programs	Create and run user programmable protocols (aspirate, dispense, and soak). Can wash wells for re-use as applicable

## Reading

Optical design	Reads absorbance in four simultaneous channels (full microwell plate) 2 channels simultaneously (using strips); NIST traceable calibration; user selects monochromatic or bichromatic results
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## Light Source:

8 position filter wheel with 4 installed filters	Tungsten-Xenon lamp
Interference filters	405nm, 450nm, 492nm and 630nm
Linear range	Long life, hard coat, ion-assisted deposition, +/- 2nm, 10nm typical half band pass
Photometric Accuracy	-0.2 to 3.0A ± (1% of the reading +0.005A from 0 to 1.5A) ± (2% of the reading +0.005A from 1.5 to 3.0A)

## Software

Format	USB and Internet upgrades
Operating Systems	Microsoft Windows®
Minimum System	MS Windows® 7, 8.1 and 10 (32 bit), Internet Explorer 11, 1GHz processor, 1GB Ram; USB 2.0 port, Ethernet port or Wi-Fi card
Recommended System	MS Windows® 7, 8.1 and 10 (64 bit), 2GHz processor, 4GB Ram; USB 2.0 port, Ethernet port or Wi-Fi card
Secondary menu options	Create/edit protocols, import/export data, etc., Control, Run, and Setup
Calculation modes	Cut-Off, Cut-off Standard, Point to Point, Linear Regression, Cubic Spline(Constrained), Dose Response, Polynomial (2nd, 3rd and 4th Order), 4-Parameter Logistic, 5-Parameter Logistic, % Absorbance
Self monitoring modes	Lamp, bottle volume, filters, pressure, vacuum, mechanical function, and more.
QC options	Store control data, print Levey-Jennings or QC range plots, calculate SDs



**Awareness Technology, Inc. USA & INTERNATIONAL:**  
1935 S.W. Martin Hwy., Palm City, FL 34990, USA  
tel.: +1 772 283 6540, fax: +1 772 283 8020  
info@awaretech.com

**Awareness Technology, Inc. EUROPE:**  
Franz-Siegel-Gasse 1, 2380, Perchtoldsdorf, Austria  
tel.: +43 (1) 804 81 84, fax: +43 (1) 804 81 85  
info@awaretech.eu

**Awareness Technology, Inc. ASIA & AFRICA**  
Q3-146, SAIF Zone, 120543, Sharjah, United Arab Emirates  
tel.: +971 (06) 557 80 58, fax: +971 (06) 557 80 59  
info@awaretech.com

ISO 13485:2016



No 5, Shekarabi Alley, Naz Street, Zafar district, Shariati Ave, Tehran, Iran

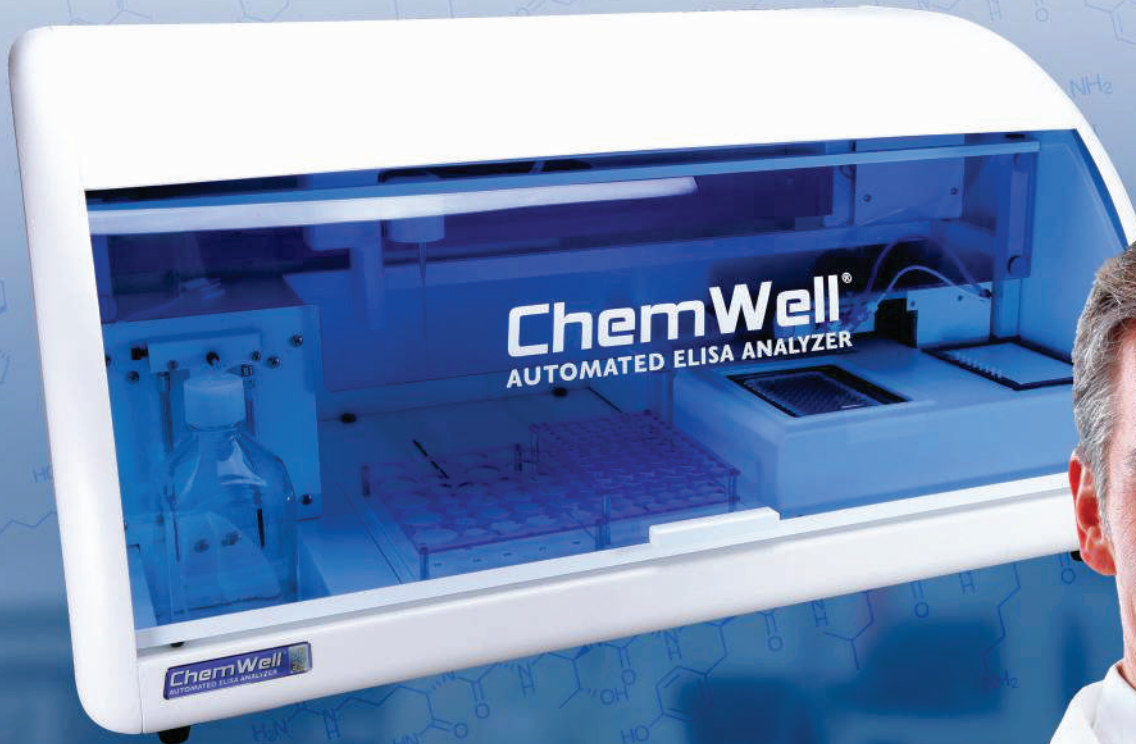
021 72801  
vestalab.ir  
@vesta\_tajhiz\_part  
Info@vestalab.ir

www.awaretech.com

**ChemWell®**

*Programmable Open System*

**Automated ELISA Analyzer**

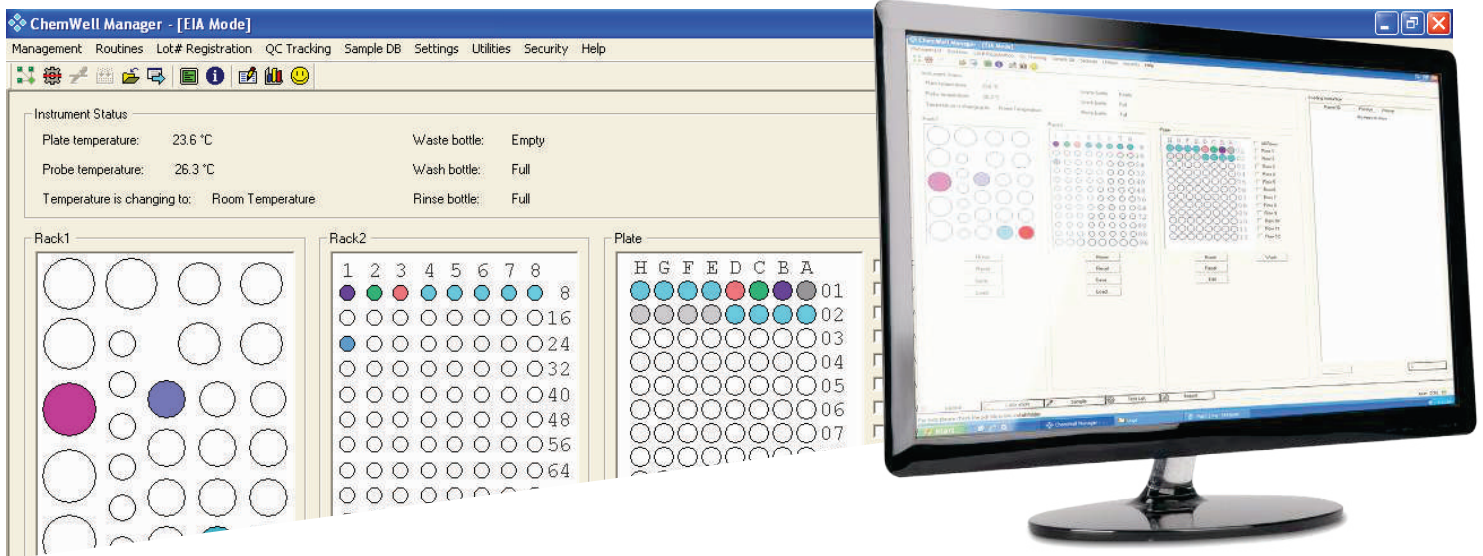


- Accurate results, dependable performance
- Automated analyzer for microwell based ELISA
- Versatile open system
- Cost-effective operation

# The Ultimate In Flexibility

 **AWARENESS®**  
TECHNOLOGY, INC.

  
**VESTA**  
Laboratory Equipment  
وستنا تجهیزات بیارت



## ChemWell® Automated ELISA Analyzer

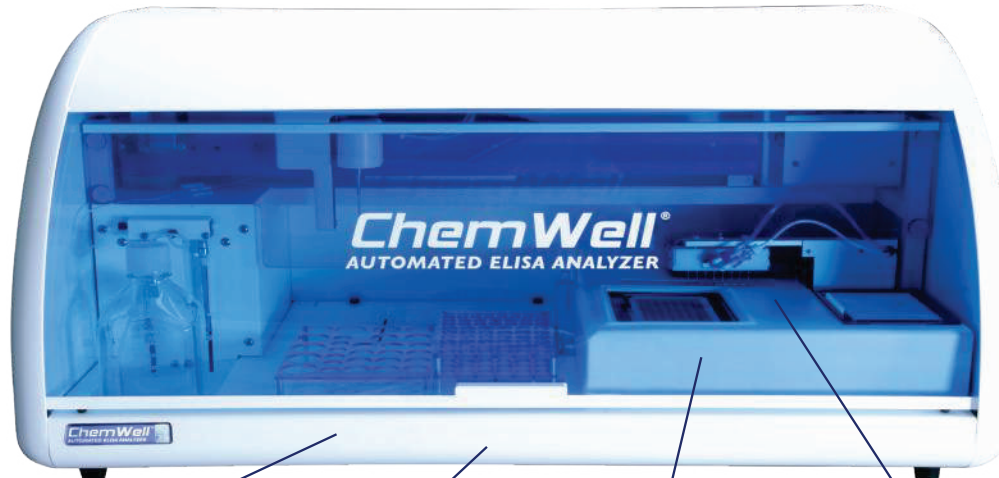
Field-proven with over 10,000 Analyzers in use globally, ChemWell is a reliable and solid platform for the automated processing of a wide variety of ELISA based assays.

The ChemWell Automated ELISA Analyzer in addition to having the flexibility of programming custom assays using the provided ChemWell Assay Editor, also offers pre-programmed test parameters for ReQuest® ELISA kits. This provides the advantages of ease of use, improved lab to lab uniformity, and reduces the opportunity for operator error as the programming, optimization, and validation for these tests has already been done.

- ◆ Announcing FDA cleared ReQuest® HSV II ELISA kit for use on the ChemWell platform
- ◆ ChemWell now offers a partially closed system with options for FDA Cleared ELISA kits
- ◆ ChemWell includes an assay editor which allows for the programming of custom assays
- ◆ Customizable and expandable protocols
- ◆ Proven technology and performance - True walk away capabilities
- ◆ World class customer support
- ◆ Ease of operation
- ◆ Flexible placement of reagent and samples for optimization
- ◆ Complete patient database available with search and tracking system
- ◆ Flexible reporting options including export to Excel® or LIS
- ◆ On Board Predilution Options in the Rack or Plate
- ◆ Fluid Handling - aspirates and dispenses from 20 µL to 1.95 ml
- ◆ On-Board programming for workflow optimization
- ◆ On-Board storage of QC, calibrator data and Levey-Jennings
- ◆ 8 position Filter wheel with 4 installed filters 340 nm – 700 nm Range
- ◆ On-Board Plate Washer, Mixer and Incubation
- ◆ Security Lock Out Options - Data Archive - unlimited capacity



Versatile • Flexible • Reliable • Accurate • Programmable • ELISA Analyzer



Reagent Rack  
up to 28 Reagents  
Optional rack  
configurations  
available

Sample Rack  
66 Samples,  
Optional 96  
Sample rack

Reaction Chamber

Washer

ChemWell Shown with optional Plate Seal compression plate  
(replaces the need for films or covers during incubation)

**FDA 510(k) Microbiology IgG ELISA Kits by ReQuest<sup>®</sup>:**  
**EBV EA-D IgG • EB NA IgG • EB VCA IgG • MUMPS IgG • MEASLES IgG**  
**VZV IgG • HSV IgG • RUBELLA IgG • TOXOPLASMA IgG • CMV IgG**

## The Ultimate in Flexibility

The ChemWell Automated ELISA Analyzer, is a true walk-away system, providing the user the opportunity to address other tasks while the ELISA assays are processing. With computer controlled accuracy of all aspects of the ELISA process - aspiration/dispensing of reagents/samples, in-plate mixing, custom wash protocols, probe wash protocols, custom placement of reagents/samples within their respective racks, timing and incubation options, and the flexibility to mix different assays on the same microwell plate, ChemWell delivers effective, accurate results while providing dependability and peace of mind.

In addition ChemWell offers custom reporting options, QC/Levey-Jennings, password protection, multiple calculation modes, additional filter options, and the ability to export to an LIS system

With it's open programming architecture ChemWell is as versatile and flexible as the user needs it to be, offering something that most analyzers just can't deliver, the flexibility on how you wish to use it.