



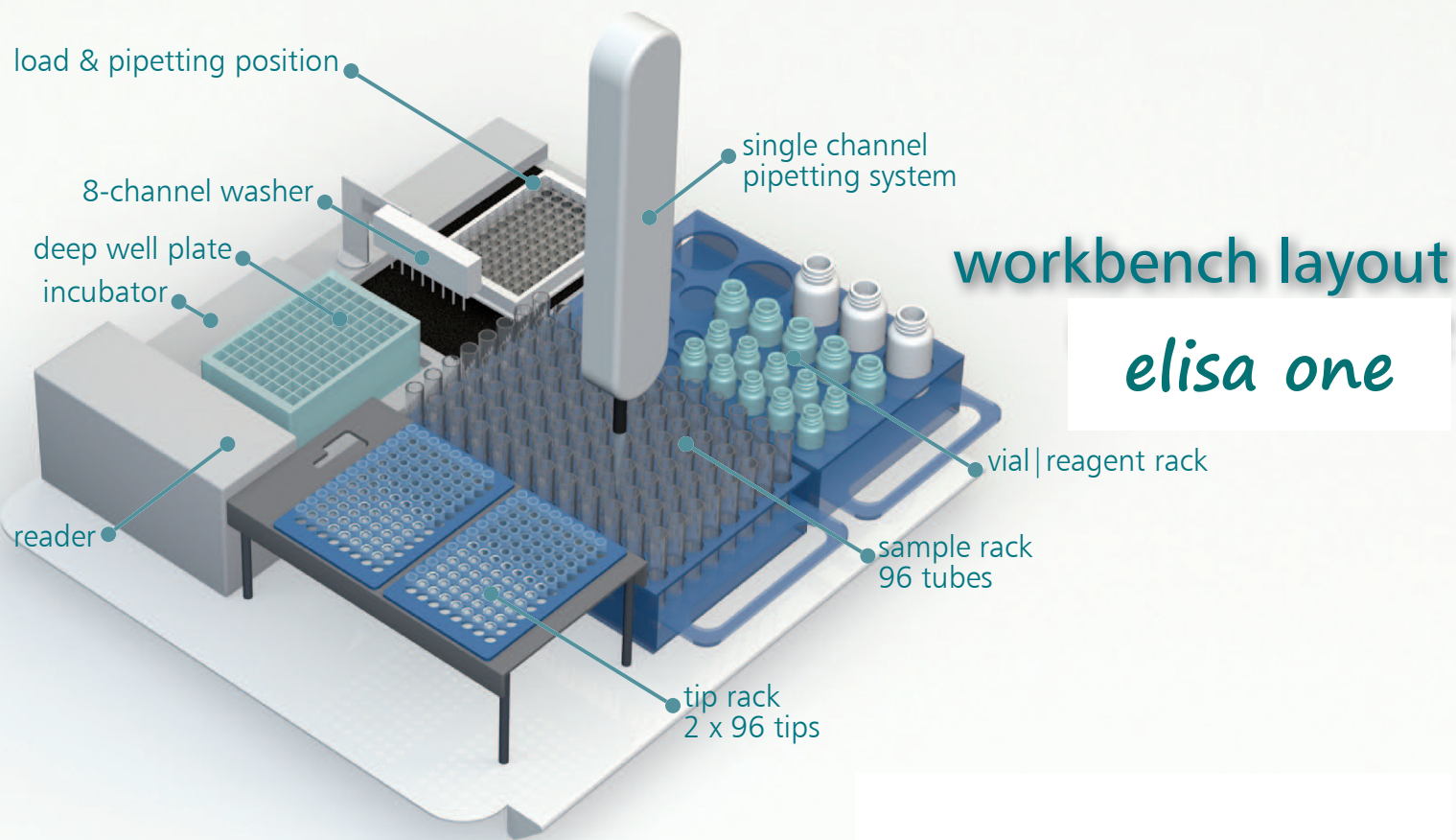
# *elisa one*

fully automated ELISA workstation  
compact | state of the art | affordable



Innovative technology for your liquid handling applications

<http://www.aa-diagnostics.de>



## workbench layout elisa one

# elisa one

## fully automated immunoassay workstation

**elisa one** is the latest member of addcares family of fully automated immunoassay processors. It provides an entry level to walk away assay automation even for small laboratories or low sample volume applications.

The space saving, reliable system combines all functions necessary to process one or multiple ELISA assays on a single microplate.

**Processing line** The pipetting position, an 8-channel microplate washer, the incubator and the microplate reader are aligned along a single, linear plate drive. This configuration allows for a very compact design, occupying just 65cm on your lab bench - less than the space of a narrow, manual pipetting work station.

**Liquid handling** The centerpiece of the system is a single channel pipetting system with disposable tips. It utilizes our latest generation liquid handling technology to provide fast and accurate pipetting.

**Software** elisassist one is supplied with ADCstation, a versatile Windows® based software package designed to control all functions of the instrument. It allows the user to configure, run and control the required assay procedure and manage sample and result data. The intuitive user interface closely follows and supports the workflow defining the procedures in the lab.

**Addcare** is engaged in the development, production and sales of advanced liquid handling systems, automated immunoassay workstations and related products. We apply sophisticated automation and software technology to create solutions to reduce your workload and increase productivity and reliability of your processes.

- ▶ fully featured ELISA processing solution
- ▶ walk away system
  - ▶ space-saving just 65cm wide!
- ▶ attractively priced
- ▶ advanced technology
- ▶ assay processing & sample preparation

## Customization

Elisassist one is based on a platform which provides perfect flexibility for customization. Due to its compact size and economic pricing the elisassist one platform is the ideal choice to create an attractive and cost efficient package to fulfill the needs of the user and create the necessary added value to the customer. The platform approach and our experienced development team allow for short time to market.

A+A Diag liquid handling system AIW 1/75 is based on the same platform and extends our existing portfolio of sample preparation systems towards smaller sample volume applications.

## Specifications

Model	elisa one			
Design	Benchtop system with single plate ELISA processing unit combining pipetting position, washer, incubator and reader on one module			
Liquid handling system	Pipetting by air displacement, disposable tips			
Number of channels	1			
Specification of tips	300µl, 800µl tips			
Pipetting range   increment	Range: 0.5 to 800µl   Increment: 0.1µl			
Pipetting precision and accuracy	Type of tip	@ Volume	Accuracy	Precision (CV%)
	300µl	50µl	1.0%	<0.75%
	800µl	100µl	1.0%	<0.75%
Liquid handling speed	1300sec	pipetting 100µl into 96-wells (incl. tip exchange)		
	160sec	dispensing 100µl into 96 wells (no tip exchange)		
Liquid handling functions	Pipetting, dispensing, dilution, conjugation, aliquoting, multiple- and diversified dispensing			
Liquid level monitoring	Liquid level monitoring, clot monitoring and empty tube monitoring			
Racks Samples   Reagents				
	Sample tubes	≥8x12=96 samples (standard tube diameter 13mm, other diameters on request)		
	Reagent Racks	bottles / vials (16+7+5) in custom rack		
Plate positions	One plate on plate drive + one standard or deep well plate predilution			
Incubator	1 (in light protected position)			
	Temperature range	Room temperature to 60°C, 0.1°C increment		
	Accuracy	±0.5°C @ 37°C		
Washer				
	Washing channels	1 x 8		
	Liquid containers	2 bottles for wash buffers and one for waste   all containers are equipped with liquid level sensors		
	Wash volume	50 to 1000µl per well		
	Residual volume	≤2µl per well		
	Washing modes	Dispense - aspirate, overflow washing, crosswise aspiration with selectable injection height, soak time and final aspiration		
Measurement module	Photometric microplate reader module			
	Measurement system	8-channel   detector: silicon photo diodes   light source: tungsten halogen lamp		
	Wavelength range	340 - 750nm		
	Filter configuration	405, 450, 492, 630nm + two empty filter positions		
	Measurement range   increment	0.000 - 3.600A   0.001A		
	Measurement modes	Single- and dual wavelength measurement		
	Accuracy	± 1% or 0.007A		
	Precision	CV < 0.5% (@ 0.3 - 1.5A, 405nm), CV <1.0% (@ 1.5 - 2.0A, 405nm)		
Barcode scanner	Manual (option)			
Software	Windows® based control software ADCstation preconfigured to the individual system configuration			
Power	Consumption: 300VA, Voltage: 220V ± 10%, Frequency: 50-60Hz (standard configuration)			
Interface	1 x USB, 1 x RS232			
Environmental Conditions	Operating temperature: 18 - 25°C, Humidity: 30 - 60% non condensing Storage temperature: 10 - 30°C, Humidity: 15 - 70% non condensing			
Dimensions WxDxH mm	645 x 450 x 680			
Weight kg	50			