



BioTray

Microtechnology for Life Science
& Chemistry Applications

FlowTest™

We Have Just Made It Easier

*Automated controller
for micro-fluidic systems*



The FlowTest™ is an automated controller that operates simultaneously up to eight fluidic control components (valves and pumps). These components can be run independently of one another. Programming is carried out on a computer, using the dedicated CosDesigner™ software. This programming tool is ideal for the development of new procedures that require liquid displacement, sampling, and injection. Multiple programs can be set up, stored and managed. The users can effortlessly retrieve and run their programs. The field of use spans laboratory and industrial applications requiring precise liquid transfers. For example, the FlowTest™ will prove to be an invaluable asset in many quality testing applications and as well as in development of microfluidic systems.

The FlowTest™ can also work as a stand-alone instrument, without a computer. In this case, programs are loaded with a USB key. The controller is then operated by a "run" and a "stop" button conveniently located on the top of the control box.

Bring your ideas to life

Our FlowTest™ controller allows you to easily design and quickly run your experiments. By controlling up to eight valves and pumps (12 or 24 Volt), a wide variety of fluidic and micro-fluidic operations can be performed.

Simple and user friendly

The graphical user interface of the CosDesigner™ software is straightforward and intuitive. The biologists, chemists, laboratory technicians, quality control technicians or other users can efficiently program the controller without having to learn complicated programming languages. Programming is accomplished in two easy steps:

- Design your fluidic flow diagram in a graphic window using a library of valve and pump components.
- Set the parameters (open and closing times, amount of fluid, interrupts) and launch the program.

Efficient and reliable

Improve your productivity with the FlowTest™ controller. CosDesigner™ allows the user to monitor several precisely timed fluidic flow operations simultaneously. Wide programming parameters allow the controller to run complex sequences for extended periods of time.

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Technical specifications

(Note: FCD = Fluid Control Device, i.e. valves and pumps)

Dimensions:	22.5cm x 18.0cm x 8.5cm / 9 x 7 x 3.5 inches
Weight:	1.5 kg / 3.4 lbs
Capacity:	Up to 8 FCD's running in parallel.
Output voltage:	12 V or 24 V
External trigger:	4 IRQ's (0-5V TTL, dry contact) permitting the start or stop of FCD operation. IRQ inputs through female CINCH/AV connectors.
FCD connection:	Spring-loaded terminal blocks with bi-color LED's indicating state of actuation.
USB-A port:	Designated for USB key in order to load programs into the controller.
USB-B port:	Designated for PC or laptop connection.
Input voltage:	110-120 V, 60 Hz / 220-240 V, 50 Hz.
	Power cables with U.S. and European plugs are supplied with the controller.
Programming:	CosDesigner™ tool can be run on Windows Seven, Vista and XP operating systems in either 32-bit or 64-bit versions.

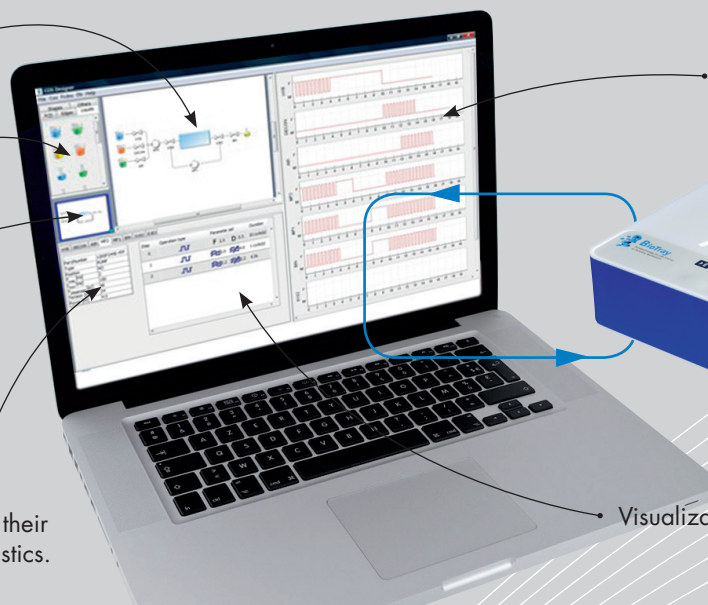
Graphical user interface of CosDesigner™ software

Graphic window for micro-fluidic diagrams.

Library of fluid system components, incl. valves and pumps.

Preview window used to pan and zoom around the graphic window.

Table of FCD's and their technical characteristics.



Visualization of the Pulse Width Modulation (PWM) signals for each FCD.

Visualization of program sequence.

Other characteristics of CosDesigner™ software

- Import/Export of FCD's in comma-separated-value format.
- Graphical user interface for ease in programming.
- Display of valve and pump part numbers and technical characteristics.
- Library of fluidics system components: fluid containers, valves, pumps, sensors, etc.
- "Drag and Drop" system. Ability to move components from the library into the graphic window diagram.

F.A.Q.: For additional information, please contact us at contact@biotray.fr

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