

**UT-2100C, Microplate Reader**



UT-2100C

**Features:**

- Easy Windows operation system with touch screen or mouse, large LCD display.
- 8-channel optical fiber system enables 5 secs' reading for the whole plate.
- Bichromatic measurement. calculation modes including ABS, Cut-off, Curve, Linear-Log and Exponential regression.
- Large memory, up to 100 test protocols and 10,000 can be stored.
- Auto self-check when power on
- With lamp sleeping and wake-up function
- Random positive and negative control setting
- Multi-assay enables up to 12 different assays on one plate
- Plate shaking function
- Powerful QC function: Grubs, Westguard
- Multi-rule, Levey jennings plot (optional)
- Easy software upgrade by SO card, support USB mouse & keyboard
- Multiform result output including patient comprehensive report
- Ability to communicate with PC for data management(optional).

Model	UT-2100C
<b>Absorbance range</b>	0.000-4.000Abs
<b>Resolution</b>	0.001Abs (display), 0.0001Abs (calculation)
<b>Accuracy</b>	±0.1% or ±0.005Abs (calculation)
<b>Type of microplate</b>	Standard with 96-well or other kind of microplate & strip
<b>Wavelength</b>	405, 450, 492, 630nm, 4 more filters optional (from 400-700nm available on special order)
<b>Optic system</b>	8 channel optic fiber system
<b>Light source</b>	Halogen lamp
<b>Wavelength accuracy</b>	±1nm
<b>Band witch</b>	<8nm
<b>Calculation method</b>	ABS, Cut-off, single standard, curve, multi-percent, percent log, linear, exponential, power, 4PL regression
<b>Reading speed</b>	5 second for 96 well plate (single wavelength)
<b>Shaking plate</b>	Shaking time and speed adjustment
<b>Memory</b>	More than 100 programs, up to 100,000 test results
<b>Interface</b>	RS-232, USB, SD card interface
<b>Display</b>	6" LCD (with touch screen function)
<b>Input</b>	Touch panel or mouse
<b>Output</b>	External printer (optional)
<b>Power supply</b>	AC 110V-220V ±10%, 50/60Hz
<b>Net weight</b>	9kg
<b>Dimensions (mm)</b>	L460xW330xH200

**UT-6100, Auto Microplate Reader**



UT-6100

**Features:**

- PC controlled system, Windows XP.
- 8-channel optical fiber system enables 5 secs' reading for 96-well plate.
- Calculation modes include ABS, Cut-Off, Curve, Linear, Log, Exponential, Power and 4PL regression.
- Up to 12 different tests can be performed in one plate.
- Powerful laboratory management software, more than 100 programs and 100,000 results can be stored.
- Powerful QC programs including Westguard Multi-rule and Instant method, automatic alarm.
- Multiform test reports output.
- Lamp saving and plate shaking.
- Save data automatically when power off unexpectedly
- Compatible with all popular external printers
- Powerful internet connection enables remote data sharing and OS update
- Multi-language software available on request.

Model	UT-6100
<b>Absorbance Range</b>	0.000-4.000Abs
<b>Resolution</b>	0.001Abs (display), 0.0001Abs (calculation)
<b>Accuracy</b>	±0.5% or ±0.005Abs
<b>Type of Microplate</b>	Standard with 96-well or other kind of microplate & strip
<b>Wavelength</b>	405, 450, 492, 630nm, 4 more filters optional (from 400-700nm available on special order)
<b>Measurement range</b>	0.000-2.500Abs
<b>Optic System</b>	8-channel optic fiber system
<b>Light Source</b>	Halogen lamp
<b>Wavelengths</b>	405, 450, 492, 630nm, 4 more filters optional
<b>Wavelength Accuracy</b>	± 1nm
<b>Band width</b>	<8nm
<b>Methodologies</b>	End Point, fixed time, Kinetic
<b>Calculation Method</b>	ABS, Cut-Off, Single Standard, Curve, Multi-Percent, Percent Log, Linear, Exponential, Power, 4PL Regression
<b>Reading Speed</b>	5 seconds for 96 well plate (single wavelength)
<b>Shaking Plate</b>	Shaking time and speed adjustable
<b>Operation</b>	PC operation, bidirectional communications
<b>Memory</b>	More than 100 programs, up to 100,000 test results
<b>Printer</b>	All printers compatible with Windows
<b>Interface</b>	RS-232, USB
<b>Power supply</b>	AC 110V - 240V ± 10%, 50-60Hz
<b>Net Weight</b>	7KG
<b>Dimensions (mm)</b>	L454xW295xH146

## UT-6500, Microplate Reader



UT-6500

### Features:

- UV wavelength available, including 340nm.
- End Point, Fixed time, Kinetic.
- Temperature control(optional), incubation time & temp. adjustable.
- PC controlled system, windows XP.
- 8-channel optical fiber system enables 5 secs' reading for the whole plate.
- More than 500 Programs and minimum 100,000 results can be stored.
- Powerful QC programs including Westguard Multi-rule and Instant method, automatic alarm.
- Calculation modes include ABS, cut-off, curve, linear, log. Exponential, Power and 4PL regression.
- Auto self- check when power on, with lamp saving and plate shaking.
- Random positive and negative control setting.
- Multi-assay enables up to 12 different assays on one plate.

Model	UT-6500
<b>Absorbance range</b>	0.000-4000 Abs
<b>Resolution</b>	0.001 Abs (display), 0.0001 Abs (calculated)
<b>Wavelengths</b>	340,405,450,492,630nm,3 more filters optional
<b>Wavelength accuracy</b>	±1nm
<b>Band width</b>	<8nm
<b>Methodologies</b>	End point, fixed time, Kinetic
<b>Calculation method</b>	ABS, cut-off, single standard, curve, multi-percent, percent log, linear, exponential, power, 4PL regression
<b>Reading speed</b>	5 Seconds for 96 well plate (single wavelength)
<b>Shaking plate</b>	Shaking time and speed adjustable
<b>Plate incubation</b>	Ambient temperature +4~45°C, adjustable
<b>Optic system</b>	8-channel optic fiber system
<b>Light source</b>	Halogen lamp
<b>Operation</b>	PC operation, bidirectional communications
<b>Memory</b>	More than 500 programs, up to 100,000 test result
<b>Printer</b>	All printers compatible with windows
<b>Interface</b>	RS-232
<b>Power requirement</b>	AC 110V/240V ±10%, 50/60 ±1Hz
<b>Net weight</b>	9 kg
<b>Dimensions (mm)</b>	L186xW440xH220

**Standard Filters:** 405nm, 450nm, 492nm, 630nm.

**Special Filters:** 412nm, 420nm, 490nm, 505nm, 540nm, 550nm, 545nm, 546nm, 578nm, 595nm, 590nm, 570nm, 690nm, 650nm, 655nm, 600nm, 690nm, 530nm, 562nm, 620nm, 675nm, 685nm, 660nm.

## FSA-1510, Food Safety Analyzer



FSA-1510

### Features:

- Multiple tests on one analyzer, includes Food Safety Analyze, Pesticide Residues, Veterinary Drug Residues. Antibiotic Residues, Determination of Organic Pollutants, Natural Toxins. Safety of Aquatic Products. Analysis of Biological Pollutants etc.
- Widely applied. not only in labs, but also in On-site Screening, like Food and Drug Administration, Inspection and Center for Disease Control and Prevention, etc.
- Multi-assay enables up to 96 tests and 12 different assays on one plate, 5 sec. for 96 well plate (single wavelength). fast and accurate.

Model	FSA-1510
<b>Absorbance Range</b>	0 - 4,500Abs
<b>Resolution</b>	0.001Abs(Displayed). 0.0001Abs (Calculated)
<b>Accuracy</b>	±0.1%or ±0.005Abs
<b>Type of Microplate</b>	Standard with96-wellor other kind of microplate & strip
<b>Wavelength</b>	410, 450, 492, 630nm, 4 more filters optional
<b>Wavelength Accuracy</b>	±1nm
<b>Band Width</b>	8nm
<b>Calculation Method</b>	ABS, %ABS, Cut-Off, Single Standard, Curve, Multi-Precent,, Precent Log, Linear, Exponential, Power, 4PL Regression
<b>Reading Speed</b>	5 seconds for 96 well plate (single wavelength)
<b>Shaking Plate</b>	Shaking time & speed adjustable
<b>Memory</b>	>100 programs, 100,000test results
<b>Interface</b>	RS-232, USB,SO card & LAN interface
<b>Display</b>	6" LCD, Touch panel
<b>Power Supply</b>	AC 110V - 220V ±10%, 50-60Hz
<b>Net Weight</b>	8kg
<b>Dimensions (mm)</b>	L460xW330xH190

- Variety tests and calculation methods, meeting the requirements from different areas of Food Safety
- Easy Windows operation system with touch screen Or mouse, large LCD display
- 22 pre programmed tests, covers area in Pesticide Residues, Aquatic Pollution. Natural Toxins, Animal Diseases
- Powerful QC function: Grubs, Westguard Multi-rule, Levey Jennings Plot
- Professional software design, sample in two different tests, dilution ratio adjustable
- Multifom result output including patient comprehensive report.



UT-2600C

**Features:**

- Fully automatic.
- Easy Windows operation system, large LCD display.
- Washes flat, U and V-bottom strips and plates.
- 12-way or 8-way manifold, automatic and manual positioning.
- Large memory, up to 50 wash protocols can be programmed.
- Automatic monitoring for vacuum and pressure, automatic rinse cycle.
- Washing pressure volume and time adjustable.
- Liquid level detection & alert function
- No special airtight bottle required for wash bottle.
- Easy maintenance.

**UT-2600C, Microplate Washer**

Model	UT-2600C
Plate Mode	96-/48-well plate or strip
Dispense Precision	CV<2.0%
Residual Volume	<1 $\mu$ l
Washing Volume	50~3000 $\mu$ L for 8-way manifold 50~2000 $\mu$ L for 12-way manifold
Washing Cycle	Maximum 99 cycles
Strip Washing	1 to 12 strips programmable
Soaking Time	0~24hours
Shaking Time	0~24hours
Display	5" LCD
Wash Channels	3 channel bottles, 1 for wash, 1 for water(rinse) and 1 for waste
Bottles Capacity	2 Liters each bottle
Memory	50 washing protocols
Interface	RS-232
Power Supply	AC 110/220V $\pm$ 10%, 50~60HZ
Net Weight	8KG
Dimension (mm)	L390xW340xH180



UT-3100-5

**Features:**

- Fully automatic.
- User friendly operation system with large LCD display.
- Washes flat, U and V-bottom strips and plate.
- 12-way or 8-way manifold, automatic and manual positioning.
- Large memory, up to 100 wash protocols can be programmed.
- Multi-channel, 1 or 3 (optional) for wash, 1 for rinse and 1 for waste.
- Plate shaking function, time and speed are adjustable.
- Two 96-well plate incubation positions (optional)
- Liquid level detection & alert function.
- Easy maintenance.

**UT-3100-5, Microplate Washer, 5 Channels, Build-In Incubator**

Model	UT-3100-5
Plate Mode	96-/48-well plate or strip
Residual Volume	<1 $\mu$ l
Washing Volume	10~3000 $\mu$ l/well, 1 $\mu$ l by step
Washing Cycle	Maximum 99 cycles
Strip Washing	1 to 12 strips programmable
Soaking Time	0~24hours
Shaking Time	0~24hours
Display	Large LCD
Wash Channels	5 channel bottles, 1 or 3 (optional) for wash, 1 for water(rinse) and 1 for waste
Bottles Capacity	2 Liters each bottle
Memory	100 washing protocols
Interface	RS-232
Power Supply	AC 110/220V $\pm$ 10%, 50~60HZ
Net Weight	13 KG
Dimension (mm)	L450xW390xH190

**UT-3900, Microplate Washer****UT-3900****Features:**

- 96-way manifold, automatic and manual positioning.
- Multi-channel, 3 for wash, 1 for rinse and 1 for waste.
- Plate shaking function, time and speed are adjustable.
- User friendly operation system with large LCD display.
- Washes flat, U and V-bottom strips and plate.
- Large memory, up to 100 wash protocols can be programmed.
- Liquid level detection & alert function.
- Easy maintenance.

Model	UT-3900
<b>Plate mode</b>	96-well plate or strip
<b>Residual volume</b>	<1µl
<b>Washing volume</b>	50~3000µl/well, 10/50 continuously adjustable
<b>Washing cycle</b>	Up to 99 cycles
<b>Strip washing</b>	Wash 2 plate at a time, 1-8 strips programmable
<b>Soaking time</b>	0~24 hours
<b>Shaking time</b>	0~24hours
<b>Display</b>	Large LCD
<b>Wash channels</b>	5 Channels, 3 for wash, 1 for rinse and 1 for waste
<b>Memory</b>	100 washing protocols & 10 plates protocols
<b>Interface</b>	RS-232
<b>Power requirements</b>	AC 110/220V±10%, 50±1 Hz
<b>Net weight</b>	23.8Kg
<b>Dimension LxWxH (mm)</b>	610x460x240

**ELI-WAS-200, Semi-automatic Microplate Washer (ELISA Washer)****ELI-WAS-200****Features:**

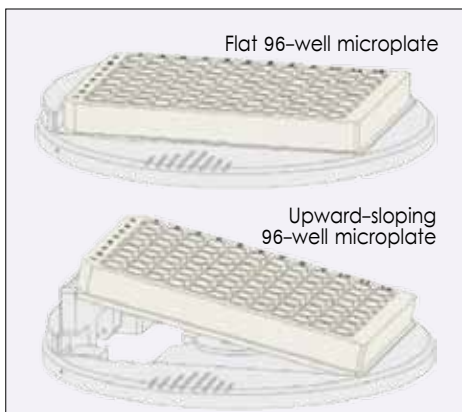
- **Economical** ELI-WAS-200 is very ideal for washing immunoassays in 8-well and 96-well microplate for ELISA procedure; economic price is especially suitable for laboratories with limited budget.
- **Convenient operation** Unique ergonomic platform can accommodate 8-channel dispenser and accept flexible placement of 96-well microplate in flat or upward-sloping way that can reduce residues more efficient.
- **No cross contamination** There are 2 separate rows of tiny S.S. tubes in different length on 8-channel dispenser. The shorter row is used to distribute washing solution and the longer row is used to suck waste liquid. The 2-row design can avoid cross contamination.
- **Autoclavable** The main body of 8-channel dispenser is made of PTFE and its 2-row of tubes are made of SUS 304. Both have a long working life and are autoclavable.

**Ordering Information****196200-11(22)**

ELI-WAS-200, Semi-automatic Microplate Washer AC11011, 60Hz (AC220V, 50Hz).

**196811-00** 8-channel Dispenser.**196100-04** Waste Bottle (2L).**196100-06** Buffer Bottle (2L).**Applications:**

- ELISA washing procedure.
- 96-well microplate washing and dispensing.

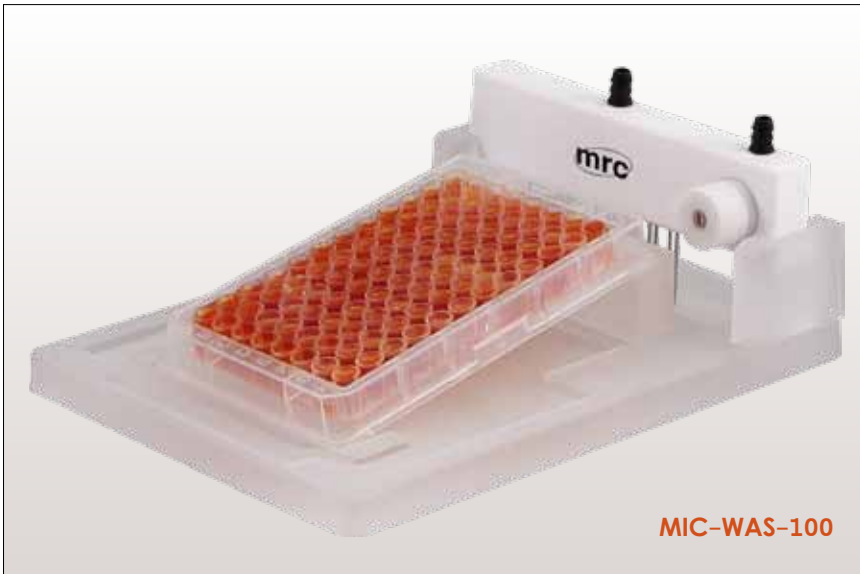


Flat 96-well microplate

Upward-sloping 96-well microplate

Model	ELI-WAS-200
<b>Max. flow</b>	500 ml/min, adjustable
<b>Buffer bottle capacity</b>	2 Liter
<b>Waste bottle capacity</b>	2 Liter
<b>8-channel dispenser dimension</b>	137(L)x67(W)x33(H) (mm)
<b>8-channel dispenser material</b>	PTFE
<b>Dispensing tube material</b>	SUS 304
<b>Machine dimension</b>	200(L)x240(W)x130(H) (mm)
<b>Packing dimension</b>	350(L)x310(W)x370(H) (mm)
<b>N.W./G.W.</b>	4.10 / 5kg

**MIC-WAS-100, Gravity-fed Microplate Washer**



**Features:**

● **Economical**

MIC-WAS-100 is a manual dispenser by utilizing the force of gravity, ideal for washing immunoassays in 96-well microplate for ELISA procedure or similar applications.

● **Convenient operation**

Unique designed plate base can accept flexible placement of 96-well microplate in flat or upward-sloping way that can reduce residues more efficient.

● **No cross contamination**

There are 2 separate rows of tiny S.S. tubes in different length on 8-channel dispenser. The shorter row is used to distribute washing solution and the longer row is used to suck waste liquid. The 2-row design can avoid cross contamination.

● **Autoclavable**

The main body of 8-channel dispenser is made of PTFE and its 2-row of tubes are made of SUS 304. Both have a long working life and are autoclavable.

**Ordering Information**

**196100-01**

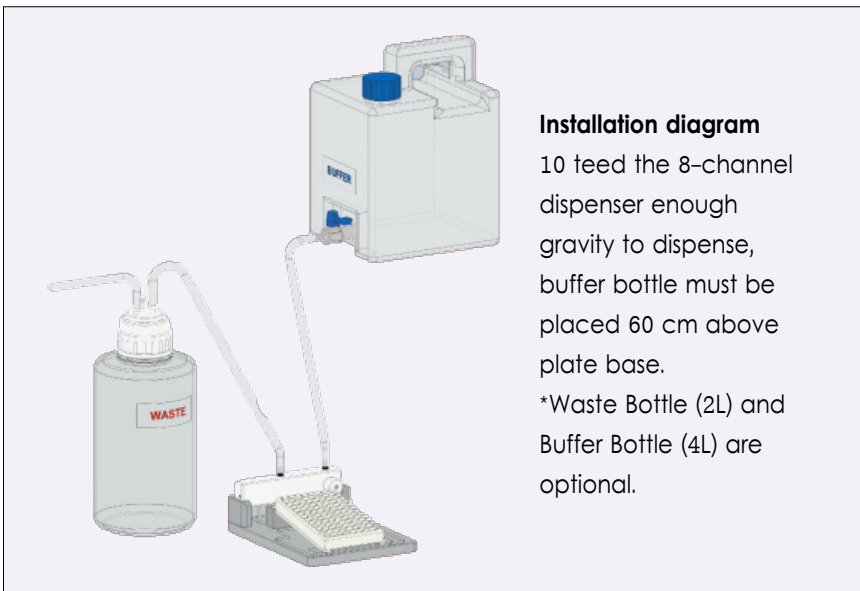
MIC-WAS-100, gravity-fed microplate washer, complete set includes 9-channel dispenser and plate base:

**196811-00** 8-channel Dispenser.

**196100-05** Waste Bottle (4L).

**196100-06** Buffer Bottle (2L).

**196100-02** Microplate plate.



**Installation diagram**

10 feed the 8-channel dispenser enough gravity to dispense, buffer bottle must be placed 60 cm above plate base.

\*Waste Bottle (2L) and Buffer Bottle (4L) are optional.

**Applications:**

- ELISA washing procedure.
- 96-Well microplate washing and dispensing.

Model	MIC-WAS-100
Min. height	Buffer bottle must be placed 60 cm above plate base.
8-channel dispenser dim. (mm)	137(0 x 67(W) x 33(H)
8-channel dispenser material	PTFE
Port thread	3/16 inch (5 mm)
Plate base dimension (mm)	197(Li x 148(W) x 433(H)
Plate base material	Acrylic
Dispensing tube material	51/5304