

*Product Catalog*



# Company Profile

MeterTech Inc. ( [MeterTech](#) ) was established in 1981 pioneering in Taiwan for designing and manufacturing medical, analytical, biotechnology, life science, industrial quality control, and environmental instruments. MeterTech specializes in integrating everyday needs and laboratory instruments with the most current technologies and manufacture qualities.

When MeterTech first started the company mainly involved in OEM/ODM projects for world renowned companies in US, Europe, and Japan. With continuous research and development in response to the diversifying interest from the market, MeterTech established itself as a leader in the field of biochemical instrumentation and won worldwide recognition for its achievements in biochemistry technology, software programming and product design.

With continuous technology development, MeterTech keeps striving for the design and manufacture of advanced instruments to meet customers' needs and market demands. Conforming to applicable safety requirements and quality standards, MeterTech's products are certified in compliance with global testing and manufacturing standards. Now MeterTech enjoys a stable growth on a wide base of expertise in this business, which allows us with capabilities to provide services to help solve our customer's toughest analytical challenges with our complete range of products and technologies.



# Certification and Awards

- 1993 M6+ Miniphotometer**  
**Certificate of Medium and Small Business Innovation Research Award**
- 1993 Spectrophotometer**  
**Certificate of Excellence**
- 1993 Flow-Cell Chemistry Analyzer**  
**Outstanding Innovation Award First for Innovative Medical Equipment & Supplies**
- 1993 96-well Microplate Reader**  
**Innovation Award First Award for Innovative Medical Equipment & Supplies**
- 1994 Flow-Cell Chemistry Analyzer**  
**Certificate of Medium and Small Business Innovation Research Award**
- 1995 Flow-Cell Chemistry Analyzer**  
**Certificate of Excellence**
- 1996 Blood Glucose Monitoring**  
**The Winner of Gold National System Sensorex-G Award of Excellence**
- 2000 UV/Vis Spectrophotometer**  
**Certificate of Excellence**
- 2000 ISO9001 Certificate**
- 2010 M7+ Handheld Water Test Solution**  
**Certificate of Excellence**
- 2010 Certificate of ISO13485**
- 2010 Certificate of Taiwan GMP (Good Manufacturing Practice)**





# SP-8001

## Description

The Metertech SP-8001 UV/Visible Spectrophotometer is an accurate, reliable, and cost effective instrument designed for quality control, research, and teaching requirements. The system is designed with a narrow, and focused beam to provide excellent linearity, and small variance with small samples in semi microcells. With ongoing improvement and upgrades by Metertech the SP-8001, has become a reliable, versatile and easy to use instrument designed to meet the requirements of research institutes, educational needs, and manufacture facilities to perform routine analysis.

## Key Features

1. Large LCD and on-board soft keys for ease of use
2. Flexible sample compartment to suit all types of experiment
3. High performance optical design for long lamp life, precision and repeatability
4. Standalone and PC control with advance software features for varies experiments.
5. Modular parts for easy to maintain with minimal training

## Specifications

| Model Number              | SP-8001                                                 |
|---------------------------|---------------------------------------------------------|
| Optical Design            | Split Beam (Internal double beam design)                |
| Light Source              | Deuterium and Halogen lamp, auto switching at 320~360nm |
| Detector                  | Silicon photodiode                                      |
| Wavelength Range          | 190-1100 nm                                             |
| Bandwidth                 | 2.0nm                                                   |
| Wavelength Accuracy       | +/- 0.5 nm                                              |
| Wavelength Repeatability  | +/- 0.2 nm                                              |
| Measurement mode          | Absorbance,<br>Transmittance (%T)<br>Concentration      |
| Photometric range         | -0.300~4.000 A<br>0.0~300 %T<br>0.000~39996C            |
| Photometric accuracy      | +/- 0.004Abs at 1.000Abs                                |
| Baseline flatness         | +/-0.002Abs (210~1100nm)                                |
| Noise level               | +/-0.0001Abs (500nm)                                    |
| Stability                 | < 0.0003 Abs /hr at 500nm after 1hr warm-up             |
| Stray Light               | <0.05% at 340 and 220 nm by NIST SRM2031                |
| Wavelength scanning speed | 100-5000 nm/min (user programmable)                     |
| Display                   | 6 Inch LCD display with back light                      |
| Interface                 | RS232 and parallel port                                 |
| PC software               | UV-mate software                                        |
| Power                     | 100 ~ 240V at 50/60Hz                                   |
| Dimension                 | 506(W) x 430(D) x 220(H) mm                             |
| Weight                    | 18 kg                                                   |

\*Metertech reserve the right to alter specifications without notice



Slipper unit



Rectangular cell holder



Single cell holder



Thermo fluid cell holder



Automatic 6 cell holder





SP-830+



SP-880

## Description

The SP-800 series single beam visible spectrophotometers are an affordable, easy-to use, and reliable general purpose instrument designed for laboratories and educational needs. The SP-800 series visible single beam spectrophotometer comes with 2 models. The SP-830+ standalone model measures the traditional absorbance, transmittance and concentration. And the PC enabled SP-880 with enhance measurement features such as spectrum scan, time scan, kinetic, and quantitative. Both models also come with a versatile sample compartment to hold cuvettes, and tubes, of all sizes. The SP-800 series visible spectrophotometers are a compact, low-cost instrument with all the essentials for teaching and routine laboratory use.

## Key Features

1. Reliable optical design for better accuracy and longer lamp life
2. Versatile sample compartment to fit all kinds of cuvettes, and tubes
3. Built-in validation tool for trouble shooting
4. Kinetics, time scan, and Quantitative found only in high end spectrophotometers
5. PC connection with PC-mate for data storage

## Specification

| Model Number             | SP-880                                                                                                                | SP-830+                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Optical Design           | Single Beam                                                                                                           | Single Beam                                                           |
| Light Source             | Halogen Lamp                                                                                                          | Halogen Lamp                                                          |
| Detector                 | Silicon photodiode                                                                                                    | Silicon photodiode                                                    |
| Bandwidth                | 2nm                                                                                                                   | 5nm                                                                   |
| Wavelength Range         | 330~1100nm                                                                                                            | 320~1100nm                                                            |
| Wavelength Accuracy      | +/-0.8nm                                                                                                              | +/-1nm                                                                |
| Wavelength Repeatability | +/- 0.35nm                                                                                                            | +/- 0.3nm                                                             |
| Scanning Speed           | 4500nm/min                                                                                                            | 4500nm/min                                                            |
| Photometric Range        | -0.300~3.500 A<br>0.0~150 %T<br>0.0 ~ 34996C                                                                          | -0.300~3.500 A<br>0.0~150 %T<br>0.0~34996 C                           |
| Measurement Mode         | Absorbance,<br>Transmittance (%T),<br>Concentration                                                                   | Absorbance,<br>Transmittance (%T),<br>Concentration                   |
| Photometric Accuracy     | 1.0% or 0.003A(from 0.000 to 2.500A),<br>whichever is greater                                                         | 1.0% or 0.003A(from 0.000 to 2.500A),<br>whichever is greater         |
| Stability                | < 0.003A/hr at 500 nm after one hour warm-up                                                                          | < 0.003A/hr at 500 nm after one hour warm-up                          |
| Stray Light              | <0.1% at 340 nm                                                                                                       | <0.1% at 340 nm                                                       |
| Data Storage             | 100 sets                                                                                                              | N/A                                                                   |
| Display                  | 16 x 2 large LCD display                                                                                              | 10 x 2 large character LCD                                            |
| Sample Holder            | 10 mm square cuvette<br>10~13 mm round tube<br>16 mm round tube(option)<br>50 mm rectangular cell<br>1 inch test tube | 10 mm square cuvette<br>10~13 mm round tube<br>50 mm rectangular cell |
| Interface                | RS232 and Parallel port                                                                                               | Parallel port                                                         |
| PC Compatibility         | PC-mate software                                                                                                      | N/A                                                                   |
| Power                    | 100 ~ 240V at 50/60Hz                                                                                                 | 100 ~ 240V at 50/60Hz                                                 |
| Dimension                | 400(W) x 300(D) x 145(H) mm                                                                                           | 400(W) x 300(D) x 145(H) mm                                           |
| Weight                   | 7.5 kg                                                                                                                | 7.5 kg                                                                |

\*Metertech reserve the right to alter specifications without notice



# M965/965+

## Description

Using high quality optical components the M965 series Microplate reader can perform ELISA measurements between the wavelength of 340~900nm with end point, two point, and kinetic measurement method. The instrument has a fast reading speed, with less than 5s per plate. For temperature sensitive essays the instrument includes a built-in incubator and, shaker for measurements.

The M965 series can be used in both standalone and PC control mode. Users can perform advance features such as Qualitative, Cut-off, Quality control, and Ratio/inhibition. With the versatility and features provided within the M965 series Microplate reader users can use this instrument in many different applications such as ELISAs / EIAs, enzymatic activity, bacterial growth studies, and fast kinetic assays.

## Key Features

1. Multiple measurement modes for different analysis
2. Detects from 340~900nm with easy to install filters
3. Less than 5 second per plate reading speed
4. 8 position filter wheel
5. Built-in incubator and shaker
6. 8 channels and 1 reference for reliable results
7. Easy to control through standalone mode or PC mode
8. Verification plate for IQ/OQ/PQ

## Specifications

| Model Number      | M965+                                                                | M965                                                                 |
|-------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| Wavelength Range  | 340~900nm                                                            | 400~900nm                                                            |
| Optical system    | 8 channels and 1 reference                                           | 8 channels and 1 reference                                           |
| measurement range | 0.000~4.000Abs                                                       | 0.000~4.000Abs                                                       |
| measurement time  | <5 second                                                            | <5 second                                                            |
| measurement modes | End point, Two points, and Kinetic                                   | End point, Two points, and Kinetic                                   |
| Accuracy          | +/- 0.005 Abs or 2%, whichever is greater                            | +/- 0.005 Abs or 2%, whichever is greater                            |
| Linearity         | +/- 1% from 0.000~3.000Abs                                           | +/- 1% from 0.000~3.000Abs                                           |
| Precision         | <0.2% CV from 0.000 to 2.000 Abs<br><0.5% CV from 2.000 to 3.000 Abs | <0.2% CV from 0.000 to 2.000 Abs<br><0.5% CV from 2.000 to 3.000 Abs |
| Resolution        | 0.001 Abs                                                            | 0.001 Abs                                                            |
| Data storage      | Parameter 100 sets,<br>Data 50 sets,<br>Calibration 20 sets          | Parameter 100 sets,<br>Data 50 sets,<br>Calibration 20 sets          |
| Incubator         | +3°C~50°C                                                            | +3°C~50°C                                                            |
| Shaking           | 8hz, 11hz, 14hz                                                      | 8hz, 11hz, 14hz                                                      |
| Interface         | USB and RS232                                                        | USB and RS232                                                        |
| PC software       | Accumate software                                                    | Accumate software                                                    |
| Power             | 100~240V at 50/60Hz, 90W max                                         | 100~240V at 50/60Hz, 90W max                                         |
| Dimension         | 355(W) x 345(D) x 174(H) mm                                          | 355(W) x 345(D) x 174(H) mm                                          |
| Weight            | 14 Kg                                                                | 14 Kg                                                                |

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# M6+

## Description

The M6+ is a portable and cost effective instrument designed to perform waste water, drinking water, environmental, food, and ELISA testing. With a large LCD and 2 button controls, the instrument can operate with just minimal training. The M6+ can accommodate a wide variety of tests with 2 of its major optical designs. The first is an interchangeable filter design which can detect from 400~750nm. The second is a patented optic compartment which allows users to perform different type of experiments by using round tubes, square cuvette, and microstrips. The M6+ is a versatile instrument that will accommodate users to perform all kinds with the most flexibility.

## Key Features

1. Multiple measurements method for all kinds of experiments
2. Interchangeable filter design to select different wavelength
3. The patent (US Patent No 5,221,961) approved rotating optical unit design
4. Battery pack option to perform on-site experiment

## Specification

| Model Number      | M6+                                                |
|-------------------|----------------------------------------------------|
| Light Source      | Tungsten Halogen lamp                              |
| Detector          | Silicon photodiode                                 |
| Wavelength range  | 400~750nm                                          |
| Bandwidth         | 10nm +/- 2nm                                       |
| Reproducibility   | <+/- 0.005 (under 2.000 O.D)                       |
| Measurement mode  | Absorbance<br>Concentration<br>Cutt-off            |
| Concentration     | 0.000~99,999.99                                    |
| Linearity         | 0.001 ~ 1.500 OD ( $\pm 2\%$ )                     |
| Resolution        | 0.001 O.D.(under 2.000 O.D.)                       |
| Photometric range | 0 ~2.500 abs                                       |
| Display           | 16 x 2 large LCD Display                           |
| Interface         | RS232 and parallel port                            |
| Power             | 100 ~ 240V at 50/60Hz<br>AAA battery X 6 pack box. |
| Dimension         | 150(W) x 170(D) x 50(H) mm                         |
| Weight            | 85g                                                |

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# eXact meters

## Description

The new generation of water test solution—eXact series makes it more convenient and easy to check the water quality. With only three steps : 1. Collect sample 2. Dip strips 3. Reading, users can get water quality results easily. The eXact series meters are a suitable instrument for everyone without much professional training. The meter is IP67 water proof and designed with sample holder inside so user can collect sample directly using the meter which saves a lot of consumables and chemicals. With battery powered it is applicable on field use such as pool, spa, and drinking water quality testing.

## Key Features

1. Patented test procedure with only 3 steps : 1. Collect sample 2. Dip strips 3. Reading
2. LED light source for long meter life
3. Small and compact suitable for field testing
4. Environmental friendly and use strips for each test



## Specifications

| Model Number                | Micro 7+                      | Micro 8                       | Micro 10                      | LeadQuick                     |
|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Measurement Method          | Photometric                   | Photometric                   | Photometric                   | Photometric                   |
| Light Source                | LED                           | LED                           | LED                           | LED                           |
| Wavelength                  | 525nm                         | 630nm                         | 525nm                         | 476nm                         |
| Transmission Range          | 0.00~100% T                   | 0.00~100% T                   | 0.00~100% T                   | 0.00~100% T                   |
| Photometric Precision       | +/- 0.1/0.01 %T               | +/- 0.1/0.01 %T               | +/- 0.1/0.01 %T               | +/- 0.1/0.01 %T               |
| Display                     | LCD                           | LCD                           | LCD                           | LCD                           |
| Cell Pathlength             | 20mm                          | 20mm                          | 20mm                          | 20mm                          |
| Cell Chamber                | Embedded                      | Embedded                      | Embedded                      | Embedded                      |
| Sample Required             | 4 ml                          | 4 ml                          | 4 ml                          | 4 ml                          |
| Operating Temperature Range | 0 - 50°C                      | 0 - 50°C                      | 0 - 50°C                      | 0 - 50°C                      |
| Power Supply                | AAA Batteries x 4             | AAA Batteries x 4             | AAA Batteries x 4             | AAA Batteries x 4             |
| Battery Life                | >2000 Tests                   | >2000 Tests                   | >2000 Tests                   | >2000 Tests                   |
| Weight                      | 140g                          | 140g                          | 140g                          | 140g                          |
| Dimension                   | 5 (W) x 3.5 (D) x 16.5 (H) cm | 5 (W) x 3.5 (D) x 16.5 (H) cm | 5 (W) x 3.5 (D) x 16.5 (H) cm | 5 (W) x 3.5 (D) x 16.5 (H) cm |

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## exact<sup>®</sup> MICRO 7+ and exact<sup>®</sup> MICRO 10

| Parameter                                   | Part Number | # of Tests | Detection Range |
|---------------------------------------------|-------------|------------|-----------------|
| Alkalinity, Total                           | 486641      | 100        | 20 - 180 ppm    |
| Ammonia*                                    | 486654      | 25         | 0.03 - 5.8 ppm  |
| Bromine (DPD-1)                             | 486637      | 100        | 0.01 - 9.0 ppm  |
| Calcium (as CaCO <sub>3</sub> )             | 486629      | 50         | 20 - 990 ppm    |
| Chloride / Sodium Chloride *                | 481657-II   | 25         | 3 - 285 ppm     |
| Chlorine Dioxide(DPD-1) *                   | 486637      | 100        | 0.03 - 6.5 ppm  |
| Chlorine, Free(DPD-1)                       | 486637      | 100        | 0.01 - 11.0 ppm |
| Chlorine, Total(DPD-3) **                   | 486638      | 100        | 0.01 - 11.0 ppm |
| Chlorine, Total (DPD-4)                     | 486670      | 100        | 0.01 - 11.0 ppm |
| Chromium Hexavalent *                       | 486614      | 50         | 0.02 - 4.89 ppm |
| Copper (Cu+2)                               | 486632      | 50         | 0.04 - 8.0 ppm  |
| Cyanuric Acid*                              | 481652      | 100        | 5 - 62 ppm      |
| Fluoride*                                   | 486643      | 25         | 0.1 - 1.1 ppm   |
| Hydrazine *                                 | 486649      | 50         | 1 - 2.0 ppm     |
| Hydrogen Peroxide LR (Low Range) *          | 486616      | 50         | 0.01 - 4 ppm    |
| Hydrogen Peroxide MR (Mid Range) *          | 486648      | 50         | 1 - 42 ppm      |
| Hydrogen Peroxide HR                        | 486670      | 100        | 10- 1000 ppm    |
| Iodine (DPD-1) *                            | 486637      | 100        | 0.01 - 10 ppm   |
| Iron, Ferrous (Fe+2) *                      | 486631      | 50         | 0.03 - 3.8 ppm  |
| Total Iron, TPTZ (Fe+2/Fe+3)*               | 486650      | 50         | 0.03 - 3.8 ppm  |
| LR Total Hardness (as CaCO <sub>3</sub> ) * | 486630      | 100        | 2 - 77 ppm      |
| Nitrate (NO <sub>3</sub> ) *                | 486617      | 50         | 13 - 140 ppm    |
| Nitrite (NO <sub>2</sub> ) *                | 486623      | 50         | 0.05 - 3.5 ppm  |
| Ozone(DPD-4)                                | 486670      | 100        | 0.01 - 4.0 ppm  |
| Permanganate (DPD-1)                        | 486637      | 100        | 0.01 - 4.5 ppm  |
| PH                                          | 486639      | 100        | 6.2 - 8.4       |
| pH, Acid *                                  | 486624      | 50         | 3.4 - 6.2       |
| pH, Alkali *                                | 486609      | 50         | 8.3 - 9.6       |
| Sulfate *                                   | 486608      | 50         | 1 - 111 ppm     |
| Sulfide*                                    | 486646      | 50         | 0.1 - 13 ppm    |

\*Results utilize the Tr-7 (transmission) meter function and require the use of a conversion table

\*\*Total chlorine DPD-3 test requires free chlorine DPD-1 (486637) to be run first

## exact<sup>®</sup> MICRO 8

| Parameter                        | Part Number | # of Tests | Detection Range |
|----------------------------------|-------------|------------|-----------------|
| Ammonia                          | 486654      | 25         | 0 - 2.4 ppm     |
| Cyanide                          | 486812      | 25         | 0.03 - 2.28 ppm |
| Iron, Ferrous (Fe+2)             | 486631      | 50         | 0.03 - 3.8 ppm  |
| Total Iron, TPTZ (Fe+2/Fe+3)     | 486650      | 50         | 0.03 - 8 ppm    |
| Phosphate                        | 486814      | 50         | 0 - 3.7 ppm     |
| Sulfate (as SO <sub>4</sub> )*   | 486608      | 50         | 1 - 125 ppm     |
| Sulfide                          | 486646      | 50         | 0.01 - 1 ppm    |
| Biguanide*                       | 486810      | 50         | 5 - 80 ppm      |
| Calcium (as CaCO <sub>3</sub> )* | 486629      | 50         | 20 - 900 ppm    |
| Chloride (as NaCl)*              | 481657      | 25         | 3 - 300 ppm     |
| Cyanuric Acid*                   | 481652      | 130        | 5 - 90 ppm      |
| pH, BT                           | 486652      | 100        | 5.9-10.0        |
| pH, CG                           | 486817      | 50         | 5.3 - 2.7 ppm   |
| Turbidity*                       | N/A         | N/A        | 3 - 580 NTU     |

\* Results utilize the Tr-7 (transmission) meter function and require the use of a conversion table

## exact<sup>®</sup> LEADQuick™

| Parameter        | Part Number | # of Tests | Detection Range |
|------------------|-------------|------------|-----------------|
| Lead in paint    | 486903      | 25         | 0.00~1.99       |
| Lead in water    | 486901      | 50         | 1~500 ug/L      |
| Mercury in water | 486901      | 25         | 10~600 ug/L     |
| Cadmium in water | 486904      | 25         | 0.01~0.8 mg/L   |



# Accutest

## Description

The Accutest Enzyme Inhibitor Testing Solution is a rapid test solution using Acetylcholine esterase (AChE) to detect Organophosphorus and Carbamate in fruits, and vegetables. The solution includes Accutest strips with AChE enzyme coating, and the Accutest meter to provide users with quantitative results in inhibition rate to determine the residual amount of Organophosphorus and Carbamate within the testing sample.

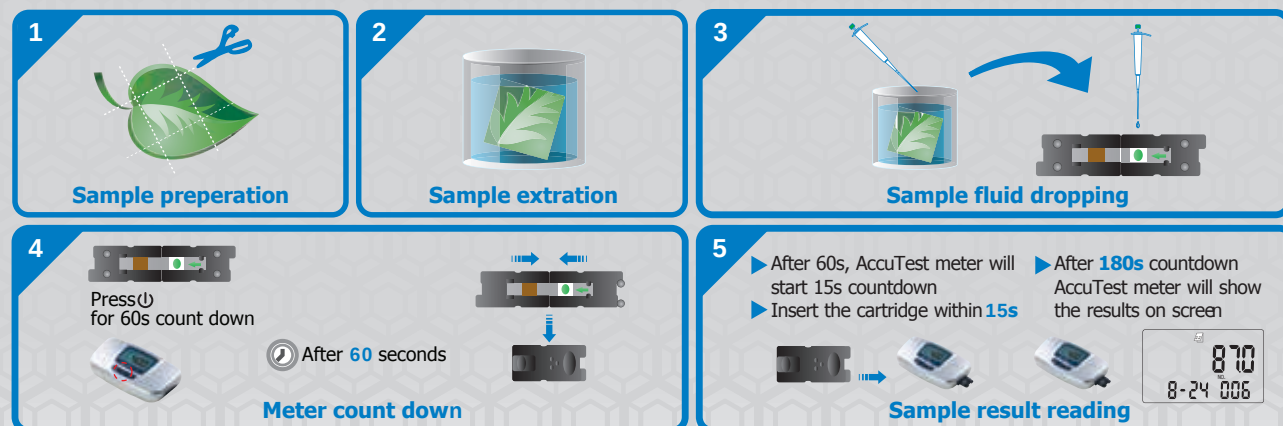
## Key features

1. Patented quick and easy way to determine pesticides residual
2. Uses test strip and reflectance technology so no liquid reagents
3. Cartridge design to prevent contamination
4. Built-in self-test function to check for errors
5. Portable unit designed for laboratory and field testing

## Specifications

| Model            | AccuTest                                  |
|------------------|-------------------------------------------|
| Light source     | LED                                       |
| Detection method | Reflectance                               |
| Measurement unit | % inhibition Rate                         |
| Detection range  | 15%~85%                                   |
| Detection time   | 180s                                      |
| Wavelength       | 615nm                                     |
| Precision        | +/- 3%                                    |
| Working temp     | 10°C~40°C ( 50°F ~ 104°F )                |
| Internal memory  | 320sets                                   |
| Display          | Graphic LCD display                       |
| Data output      | USB                                       |
| Power            | 100~240V DC 6 +/- 0/6V<br>AAA battery x 4 |
| Dimension        | 89.5(W) x 160(D) x 36.6(H) mm             |
| Weight           | 160g                                      |

\*Metertech reserve the right to alter specifications without notice





# FAI-6000

## Description

Fecal occult blood test (FOBT) is a common test used in colorectal cancer screening. Metertech has developed the FAI-6000 fully automated instrument to detect FOBT using immunoassay. Compare with conventional systems that performs only 1 test on the system, the FAI-6000 can test Transferrin, Hemoglobin, and H.pylori in one unit. Once operated the unit will run automatically and requires no human intervention thus eliminating human error.

## Key Features

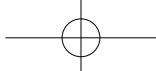
1. Fully automated system that dispense, incubate, and reads
2. Transferrin, Hemoglobin, and H.pylori in one platform
3. Patented and proprietary Stool Sample Collection Device
4. Liquid surface detection technology
5. Automatic loading and unloading of cuvettes

## Specifications

| Model Number      | FAI-6000                                       |
|-------------------|------------------------------------------------|
| Analysis Method   | Latex agglutination immunity nephelometry      |
| Throughput        | 180 samples/hour                               |
| Measurement Items | Transferrin, Hemoglobin, and H.pylori          |
| Measurement Range | 20 to 1000ng/ml                                |
| Sample Volume     | 10~20 µl                                       |
| Reagent Volume    | Latex : 40~100 µl Buffer: 100~300 µl           |
| Sample Carrier    | 40 specimen holder + 40 round cuvettes         |
| Reaction Plate    | 40 cuvettes                                    |
| Reagent Container | 5 .5 ml                                        |
| Sampling Method   | Automated pipetting with washing               |
| Reaction Time     | 5 minutes                                      |
| Incubation Temp   | 37°C at reaction plate, 25°C at reagent holder |
| Data Output       | Printer and USB                                |
| Weight            | 60 Kg                                          |
| Dimension         | 880(W) x 527(D) x 410(H) mm                    |
| Power             | 100~240V at 50/60Hz, 300W max                  |

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