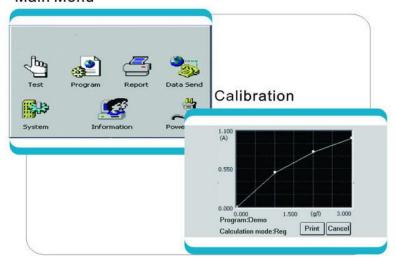# RT - 2100C

Microplate Reader

Features

- Easy Windows operation software, 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 include ABS,Cut-off,Curve,Linear,Log and Exponent regression
- Large memory to store at least 100 test protocols and 10000 sample results
- Auto self-check when power on
- With lamp sleeping and wake-up function
- Random positive control and negative control setting
- Multi-assay feature enables up to 12 different assays on one plate
- Powerful QC function: Grubs, Westguard rules, Levey Jennings plot (optional)
- Multiform result output including patient comprehensive report
- Easy software upgrade by SD card, support USB mouse and keyboard
- Ability to communicate with PC for data management (optional)

RT-2100C

Microplate Reader

Main Menu

Test   Program   Report   Data Send

System   Information   Power

Calibration

1.100 (A)

0.550

0.000
0.000   1.500   (g/l)   3.000
Program:Demo
Calculation mode:Reg   [Print] [Cancel]

Plate setting

| Sample | Blank | NC | PC | STD | QC | CLR |

	1	2	3	4	5	6	7	8	9	10	11	12
A	001	002	003									
B												
C												
D												
E												
F												
G												
H												

Program: ABS   Calculation: Absorbance

[New] [Select all] [Clear all] [Start] [Cancel]

Programming

Program HbsAg
Full name Antigen
Reagent
First wavelength 450
Second wavelength None
Calibaration mode Absorbance
☐ Double sample   Blanks 0.050

[>>] [Cancel]

Patient data setting

Input patient information

Date 2003-06-09   Sample NO. 001
Name Susan   Age 25
Sex ○ Male ♂ ○ Female ♀ ● Unknow
Dept xxx ▼   Operator xxx ▼
Bed ID 006   Sender xxx ▼
ID 008   [Ok] [Cancel]

Report

Name: Susan   Sex: Female   Age: 25   Dept: xxx
Date: 20/10/2003   Sample: 05   Bed No: 006   Sender: xxx

Program	Full name	Result	Unit	Diagnosis	Reference range
HIV		0.163	s/co-	Neg-	(0.000-1.000)
HbsAg		0.283	s/co-	Neg-	(0.000-1.000)
HbsAb		0.634	s/co-	Neg-	(0.000-1.000)
T3		3.374			

Operator: Checker:

Technical Specifications

Photometric Range	0.000-4.000Abs
Resolution	0.001Abs(displayed), 0.0001Abs(calculated)
Light Source	Halogen lamp
Wavelengths	405,450,492,630nm, 4 more filters optional
Wavelength Accuracy	±1nm
Band Width	<8nm
Calculation Mode	ABS, %ABS, cut-off, linear, point to point, log, exponent, power regression
Accuracy	±1% or ±0.005A
Reading Speed	5 secs for 96 well plate (Single wavelength)
Shaking Plate	Shaking time and speed adjustable
Memory	100 tests, up to 10000 test results
Interface	RS-232, USB, SD card interface
Display	6" LCD
Input	Touch screen, mouse or external keyboard
Output	External printer(optional)
Net Weight	8KG
Dimensions L×W×H (mm)	460 x 330 x 200
Power Supply	AC 110V-220V±10%, 50-60Hz