

Thermo Cycler



Features

- Fast heating rate higher than 4.8°C / sec & 3.8°C / sec cooling rate
- Inter-changable gold-plated 96 / 384 wells reaction module
- Multiple language selection, direct dialogue operation
- Temperature Differential and Step Control available
- Gas tight reaction zone with no moisture condense
- Low noise high efficiency cooling fan
- No need for operation training
- Pre-set sample storage mode
- Superior long time stability
- Sample Volume selectable
- Control Bus Net ability
- Touch down available
- Tm calculation

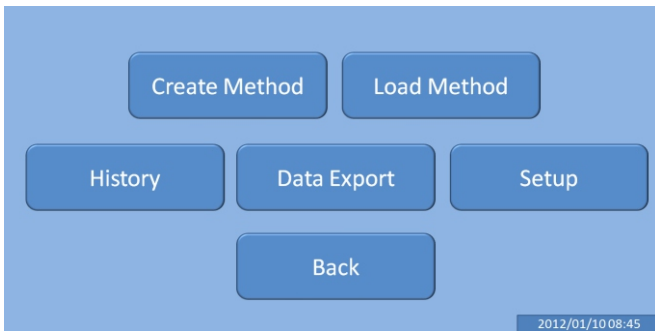
Application

- Pharmaceutical and immunological research laboratory
- Gene expression, Genome typing research laboratory
- Method development in gene amplification laboratory
- Routine gene amplification at clinical laboratory
- Gene cloning / mutation research laboratory
- University, academic and government
- High throughput screening laboratory

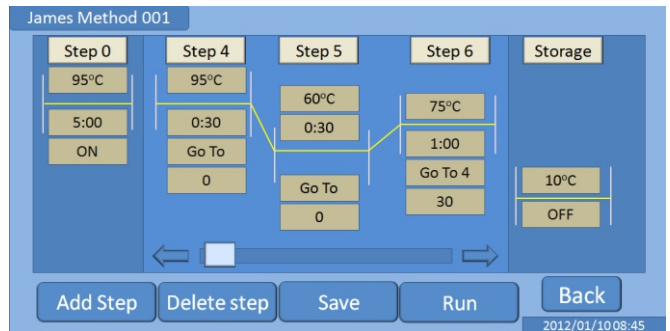
User interface

- Method creation, running status display, methods storage, and data transfer by using 7 inches touch screen; moreover, emergency sample interruption and error message also included
- Control Bus Net supports maximum six satellite SEDI S units. Personal computer also allowed to control individual SEDI S for routine and high throughput laboratory
- Evaluate the cycling program through temperature differential function is also available
- Multi-user provides recall or load method by searching user's own document
- Hot start, ramping, number of cycle, history all controlled by touch screen
- Graphic function icon for quick function select and parameter setting
- 20µl, 50µl and 80µl sample volume selectable
- Touch Down can be set through adding steps

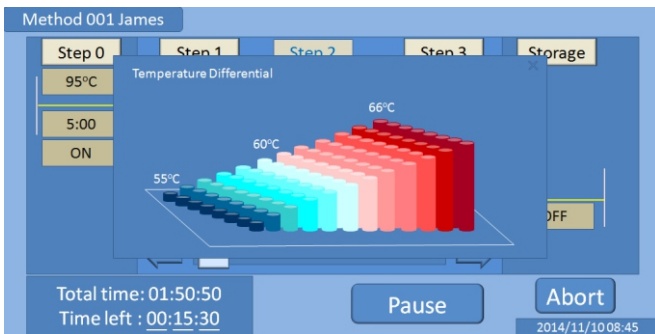
Main Menu



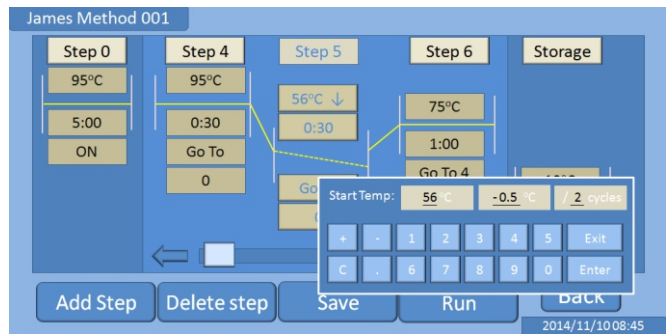
Create Method



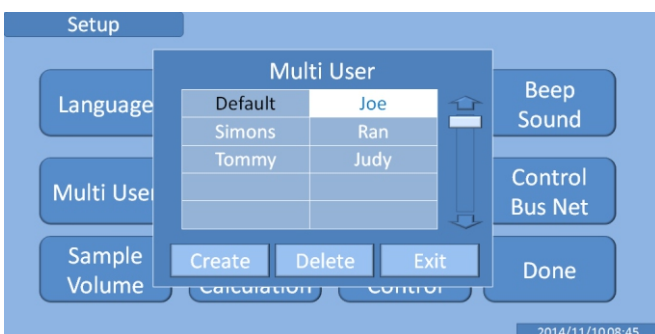
Temperature Differential



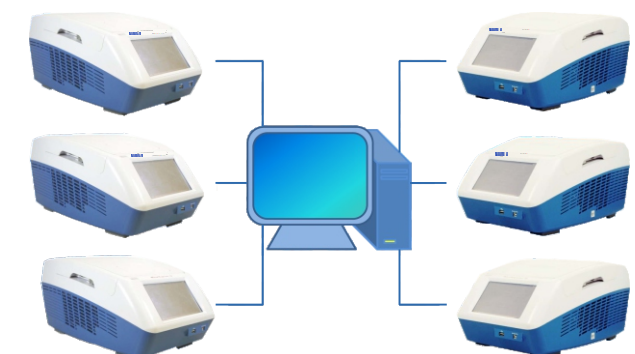
Touch Down Step



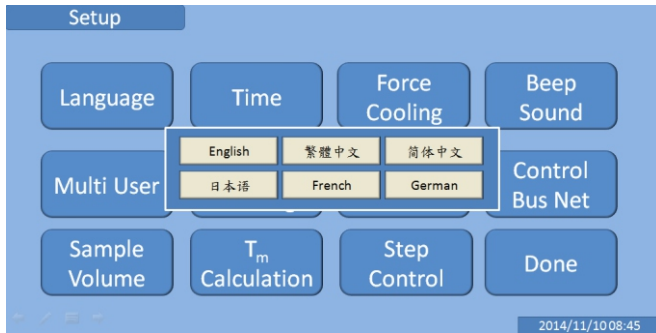
Multi User



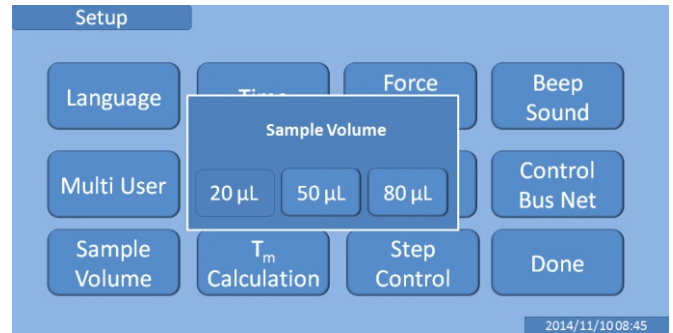
Control Bus Net



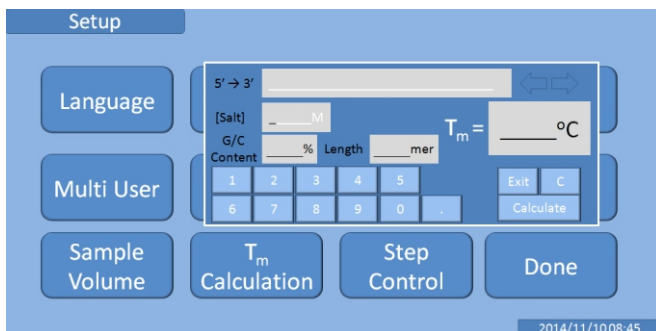
Multi Language



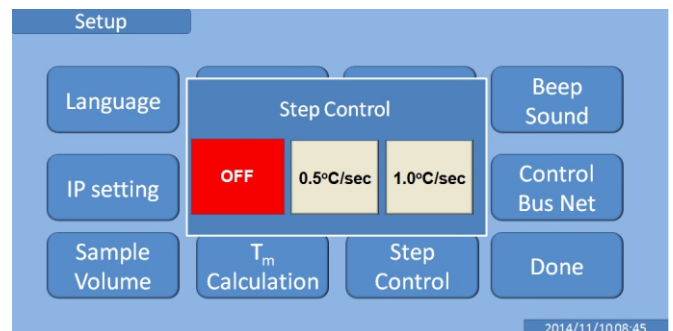
Volume Selection



Tm Calculator

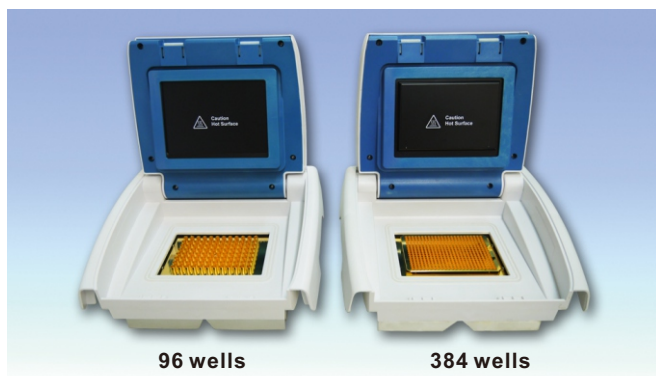
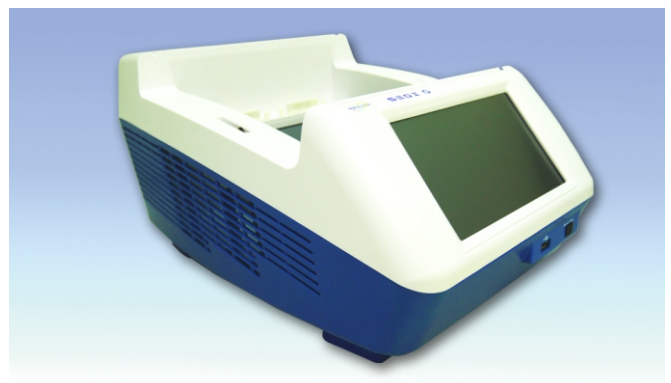


Step Control



Main Cabinet

- A, B type USB port for firmware upgrade, method transfer and service purpose
- 7 inches 800 x 480 large LCD touch screen human machine interface
- High efficiency low noise cooling fan for rapid heat sink cooling
- 12 bit PWM control to high accuracy temperature control
- Ethernet port for bus control and communication
- Fire resistant and recyclable material



Interchangeable reaction module

- Peltier element with linear temperature sensor controlled by microprocessor
- Gold plated reaction zone for outstanding thermo conductivity
- Controlled temperature top lid provides zero vapor condense
- Vapor free and water proof inside the reaction core area
- Auto adjust top lid while reaction module closed

Specifications

Model	SEDI B	SEDI S	SEDI X
Main cabinet	CU - 100	CU -100S	CU - 100
Large LCD	7"	-	7"
USB port	•	•	•
Service port	•	•	•
Cooling fan	•	•	•
Ethernet port	•	•	•
Volume selectable*	•	•	•
Top lid temperature	95 -105 °C		
Temp. range	0 - 99.9°C		
Language	Multiple	Multiple	Multiple
Method storage	9999	9999	9999
Temp. accuracy	<+ / -0.25°C well to well		
Temp. uniformity @ 56°C	<+ / -0.25°C well to well		
Ramp rate	Higher than 4.8°C / sec(well);higher than 3.0 °C / sec (vial)		
Cooling rate	Higher than 3.8°C / sec(well);higher than 3.0 °C / sec (vial)		
Storage function	Yes		
Ramping control	0.5 / 1.0°C By Selection		
Certification	CE		
Reaction module			
Model	RM G	RM X	
Reaction core	96	384	
Peltier	6	6	
Temp. sensor	7	7	
Heated top lid	•	•	
Gold plated	•	•	
Weight (kg)	3 for reaction module; 6.8 for main cabinet		
Dimensions (mm)	534 x 396 x 297 (W x D x H)		
Input power	100 - 240VAC, 50 - 60Hz, 700W		
Option	Step temperature control program with differential range + / - 1~ 12°C		

*Selectable volume 20, 50 and 80 µl from the touch panel.
The spec is subject to change without prior notice.

Ordering Information

Catalog No.	Description
1310001	SEDI B Thermo Cycler, gold plated 96 wells reaction module, 100 - 240V, 50 - 60Hz
1310026	SEDI X Thermo Cycler unit, gold plated 384 wells reaction module, 100 - 240V, 50 - 60Hz
1310031	SEDI S Thermo Cycler satellite unit, gold plated 96 wells reaction module, 100 - 240V, 50 - 60Hz
1311061	Step temperature control software
1310062	Control bus net software option, PC version



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