

# Thermo Cycler

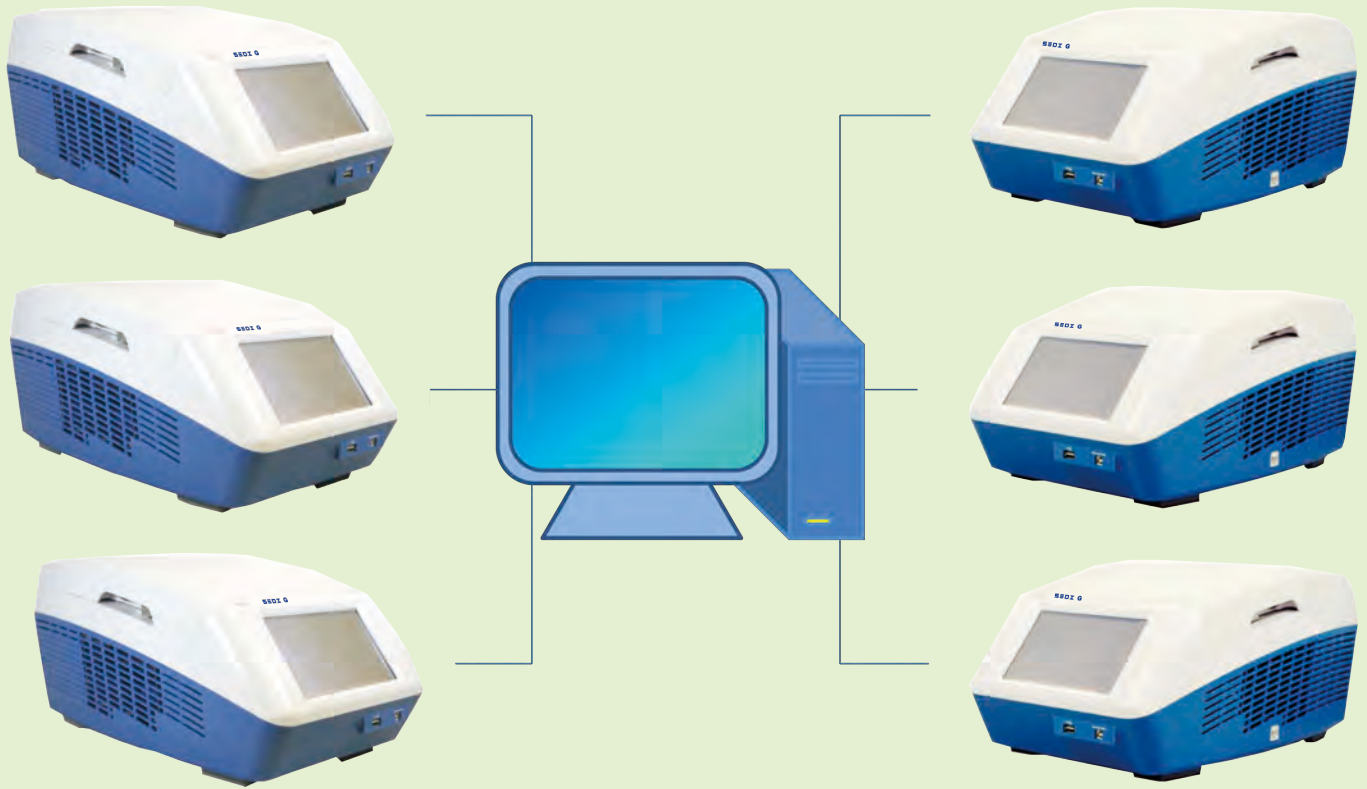


## Features

- Multiple language selection, direct dialogue operation
- Gas tight reaction zone with no moisture condense
- Small footprint Interchangeable reaction module
- Fast heating rate higher than 4.5°C/Sec & 2.8°C/Sec cooling rate
- Low noise high efficiency cooling fan
- 96, 384 wells reaction capability
- Superior long working time stability
- Pre-set sample storage mode
- No need for operation training
- Control Bus Net ability

## Application

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



Control Bus net software package supports maximum six Satellite SEDI S units; this unique design provides each SEDI S unit controlled by personal computer individually for routine and high throughput laboratory. The advanced Pulse Width Modulation control technique to maintain temperature accuracy within 0.3°C.

## Interchangeable reaction module



- Peltier element with linear temperature sensor controlled by microprocessor
- Oil less for 96 and 384 wells both skirt and non-skirt plates; 20µl and 50µl sample volume
- 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
- Reaction module change within seconds

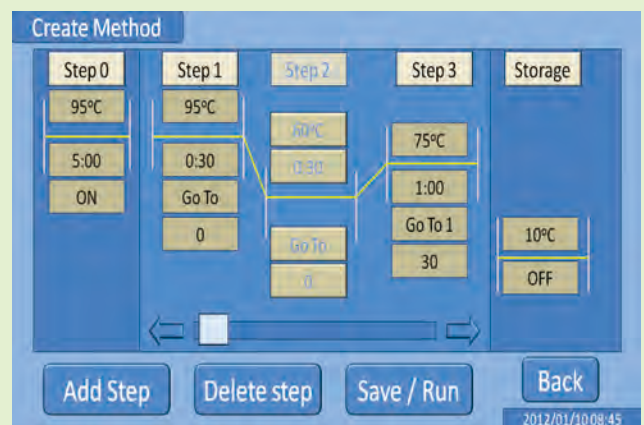
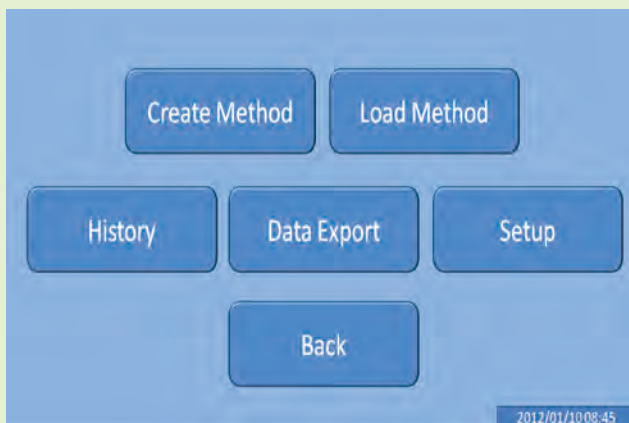
## Main Cabinet

- 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
- Clear-View human machine interface



## User interface

- Recall/load method, method create, running status display, methods storage, and data transfer by using 7 inches touch screen moreover emergency sample interruption and error message also included
- Graphic function icon for quick function select and parameter setting
- Hot start, ramping, number of cycle, history all controlled by touch screen



## Specifications

	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*	•	•	•
Temp. range	10-99°C		
Language	Multiple	Multiple	Multiple
Method storage	9999	9999	9999
Temp. Accuracy	+/-0.3°C		
Temp. uniformity @ 56°C	< +/-0.3°C well to well		
Ramp rate	Higher than 4.5°C / sec		
Cooling rate	Higher than 2.8°C / sec		
Storage function	Yes		
Ramping control	1 ~ 3°C By Selection		
<b>Reaction module</b>			
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	100-240 VAC, 50-60Hz, 700W		
Option	Step temperature control program with differential range +/- 1~ 12°C		

\*Selectable volume 20µl and 50µl 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 for gradient



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