

# STALWART

## Thermal Cycler STG-X Series



## Introduction

STC-10X thermal cycler uses long service life peltier. Its max. Ramping rate is 5°C/s and cycle times is more than 1000,000. The product combines a variety of advanced technologies: Android system; Color capacitive touch screen; 3 blocks can run gradient experiments independently; built-in WIFI module, mobile APP and PC software control function; email notification function; big storage capacity and etc. All above functions allow PCR's excellent performance and meet higher experiment's need.

## Features

- 6 long service life Peltier heating units and form 3 circuits to control 3 temperature zones.
- Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance.
- High heating and cooling rate, max. Ramping rate 5°C/s, can save your precious time;
- 3 blocks independently controlled and can run 3 different PCR gradient programs simultaneously.
- Stepless adjustable hot lid with pressure-protection, fit tubes of different heights to avoid tube melt and evaporation.
- Android operating system, capacitive touch screen, high-definition TFT display (8", 800×600 pixels, 16 colors) with graphical interface provides easy use for setting up and monitoring.
- Built-in 11 standard program file template, can quickly edit the required files.
- Folder management, user can build directory.
- The running program and left time can be displayed in real time, allow to edit file when program is running.
- One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA.
- Internal flash memory for 10000 typical PCR files in free configurable folders.
- Hot lid temperature and hot lid work mode can be set to meet different experiment's need.
- Automatic restart after power failure. When power is restored it can continue to run unfinished program.
- GLP report records every step to provide accurate data support for experiment result analysis.
- User Login Management, three-tier permission, password protection function to ensure data security.
- support U disk to get PCR data, to update software, and USB mouse can also be used to control the PCR instrument;
- Built-in WIFI module, one machine can control multiple PCR machines at the same time through mobile APP or PC software;
- Support email-alert function when experiment is over.

## Specification

Item	STG-3X	STG-10X
Capacity	3×(32×0.2ml )	3×(32×0.2ml )
Temperature Range	0-100°C	0-100°C
Heating Rate	5°C/s	5°C/s
Cooling Rate	4°C/s	4°C/s
Uniformity	≤±0.3°C	≤±0.3°C
Accuracy	≤±0.2°C	≤±0.2°C
Display Resolution	0.1°C	0.1°C
Temperature Control	BlockTube	BlockTube
Ramping Rate Adjustable	0.1-5°C	0.1-5°C
Gradient Temp. Range	-	30-100
Gradient Spread	-	1-30
Hot Lid Temperature	30-110°C	30-110°C
Hot Lid Height Adjustable	Stepless Adjustable	Stepless Adjustable

## Specification

Number of Programs	10000 +(USB FLASH)	10000 +(USB FLASH)
Max. No. of Step	30	30
Max. No. of Cycle	100	100
Time Increment/Decrement	1 Sec - 600 Sec	1 Sec - 600 Sec
Temp. Increment/Decrement	0.1-10.0°C	0.1-10.0°C
Pause Function	Yes	Yes
Auto Data Protection	Yes	Yes
Hold at 4°C	Forever	Forever
Touchdown Function	Yes	Yes
Long PCR Function	Yes	Yes
Language	English	English
Mobile App	Android	Android
LAN to Computer	Yes	Yes
LCD	8 inch, 800×600 pels, TFT	8 inch,800×600 pels, TFT
Communication	USB2.0 , LAN,wifi	USB2.0 , LAN,wifi
Dimensions	390mm×270mm×255mm (L×W×H)	390mm×270mm×255mm (L×W×H)
Weight	9kg	9kg
Power Supply	85-264VAC , 47-63Hz , 600 W	85-264VAC , 47-63Hz , 600 W