INTRODUCTION

Real-time PCR thermal cyclers provide a system for the efficient amplification of nucleic acids *in vitro,* while offering capability to monitoring the PCR reaction in real-time.

These PCR thermal cyclers also provide the capability for quantifying and estimating the original concentration of the template.

These features enable the use in variety of applications for molecular biology.

List of Applications

- Molecular Diagnostics
- Expression Studies
- Genotyping
- Other Molecular Biology Research
- Forensics
- Quality Control Testing

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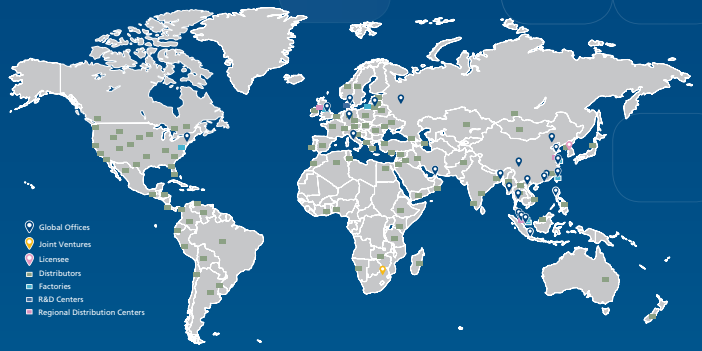

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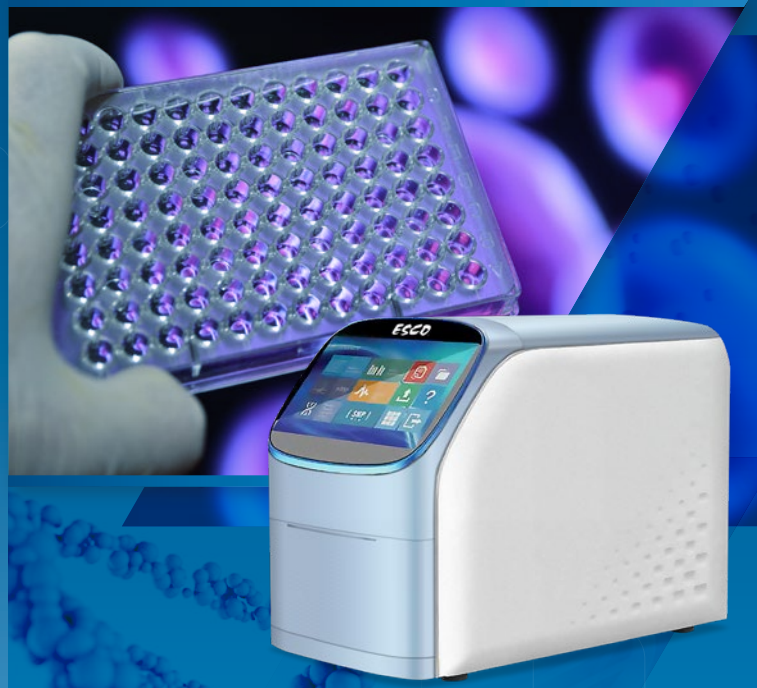
Esco Swift™ ProGene

Real-time PCR Thermal Cyclers



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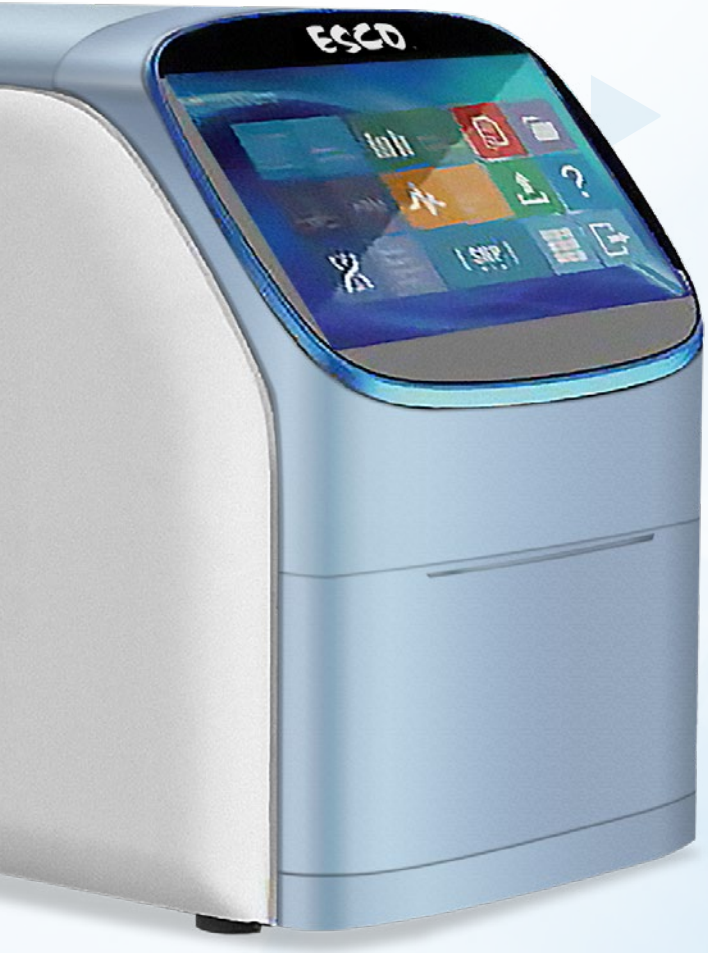
Esco Swift™ ProGene

Real-time PCR Thermal Cycler



KEY FEATURES

- Fast heating/cooling rate for faster run time
- Offers 6-zone independent temperature control for accurate results
- Low energy consumption
- Built-in computer for stand-alone operation from PCR program input, monitoring, to analysis.

OTHER FEATURES

Touchscreen Display

Large display allows for stand-alone operation or can import programs from USB.

Multiple Configurations

Variety of PCR applications can be performed including: quantification, SNP, and HRM analysis.

6 Channels

Standard 5 channels plus additional for user customization, allowing specific detection of particular wavelength.

Automatic Sample Cavity

Automatic insertion and ejection of PCR plates or tubes to the system.

SPECIFICATIONS

MODEL	SWT-PG-96
Sample Capacity	96 x 0.2 ml
Applicable Consumables	0.2ml tubes, 96-well microplates, 12 x 0.8 strips, 8 x 12 strips (transparent caps)
Reaction Volume	10-100 µl
Max. Heating/Cooling Rate	Heating: 6°C/sec Cooling: 5°C/sec
Temperature Uniformity	≤±0.2°C
Temperature Accuracy	± 0.1°C
Temperature Display Resolution	±0.15°C
Temperature Control Mode	Block or Tube
Temperature Range	4-105 °C (Increment of 0.1°C)
Hot-lid Temperature Range	30-110 °C
Excitation Wavelength	300-800 nm
Emission Wavelength	500-800 nm
Channels	6 Channels F1: FAM, SYBR Green I F2: VIC, HEX, TET, JOE, TAMRA, CY3, NED F3: ROX, Texas-Red F4: Cy5 F5: Cy5.5 F6: Customized
Gradient	6 independent temperature control zones
Linear Dynamic Range	1-10^{10} copies/L
Power Requirements	100-240 V, 50/60 Hz, 1000W
Communication Interface	USB to PC adapter, bluetooth
Alarms	Hot-lid overheat protection and alarm Switching power supply overheat protection
Dimension (W x D x H)	380 x 400 x 380 mm

ORDERING INFORMATION

PRODUCT	Swift™ ProGene
Item Code	2210039
Model	SWT-PG-96
Description	SWIFT PROGENE, SWT-PG-96, REAL-TIME PCR