



# Swift



Swift Spectrum Real-Time 96

## Spectrum Real-Time 96

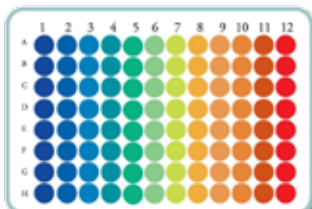
Esco Healthcare introduces a 2nd generation platform for quantitative real-time PCR; the Real-Time PCR 96 System combines new technology, an unprecedented range of options and features with unsurpassed data quality, all at an affordable price.

The Real-time PCR 96 has the unique patented block dissipation technology and bottom detection mode, which provide better heating/cooling rate, temperature accuracy, uniformity and stability.

Adopting Ferrotec newest Peltier, fiber optic technology and a new global wide range power supply, the highly improved instrument is available for a variety of scientific research and clinical applications.

### Features

- Improved temperature control accuracy and stability.
- Bottom detection mode avoids interference between wells and insures more reliable result.
- Both entire plate and designated line scan mode. Rapid 96-well dual-color scanning.
- Excellent Ferrotec Peltier module applied inside.
- TM calculator with Maximum 36 temperature gradient control function.
- Perfect heating and cooling rate supported by patented block dissipation technology.
- Experience a new level of data quality and reproducibility with industry-leading well-to-well uniformity.

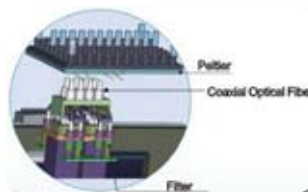


Up to 36°C of the temperature range

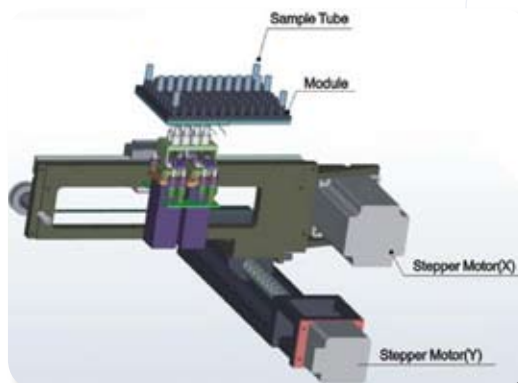
### Selling Points

- Expanding numbers and analyses available.
- Becoming less technically demanding.

- Multi-competent device for performing with virtually any detection chemistry
- PMT detector is one of the most sensitive detectors, and has a fast response time with no need of water-cooling.
- Affordable price comparing with the key competitors in the market.
- Long Warranty period- 3 years for main body, 2 years for blocks.
- Open Platform-Compatible with usage of generic consumables and reagents.



Convenient 96-well format meets the throughput needs of most researchers



Sensitive optical system delivers rapid, accurate temperature changes and reduced vertical temperature



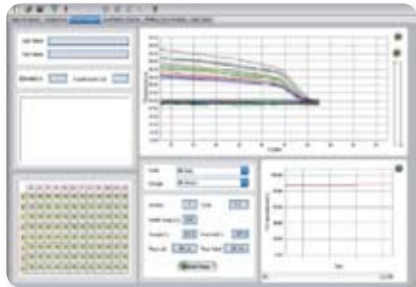
Software Programming



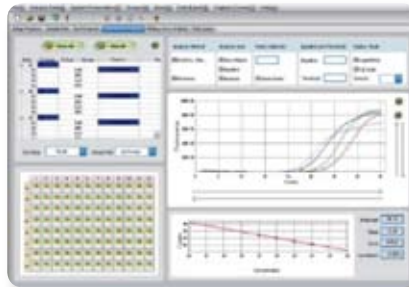
Well and Dye Setting



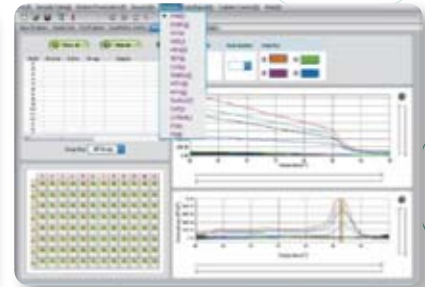
SNP Interface



Quantitative Analysis







Running Interface



Melting Curve Analysis

### Real-time Spectrum 96 Comparison with Similar Models of Key Competitors

Model	ESCO HEALTHCARE SPT-RT-96	ABI 7500 Fast	Eppendorf Mastercycler ep realplex4	Bio-Rad iQ5
				
Price	-	49500 EURO	-	37500 EURO
Laser / Lamp	LED	Tungsten halogen lamp	LED	Tungsten halogen lamp
Detector	PMT	CCD camera	2-channel PMT	12-bit CCD camera
Thermocycling	Peltier element block	Peltier element block	Gradient Peltier element block	iCycler Peltier element block
Excitation Spectrum	300-800nm	Five excitation filters	470 nm	5 filter positions in range 475-645 nm
Filters / Detection Channels	8-individual filters: FAM/SYBR Green I, VIC, HEX, TET, JOE, CY3, NED, ROX, TAMRA, TEXAS-RED, CY5, LightCycler Red)	5-position filter wheel: FAM/SYBR Green I, VIC/JOE, NED/TAMRA/Cy3, ROX/Texas Red and Cy5 dyes	520 / 550 / 580 / 605 nm	5 filter positions available in range 515-700 nm, 2 provided
Gradient Temperature Range	1-36°C	-	24°C	25°C
Format	96-well Microplate (Full Skirted), 12x8-strip, 96x0.2ml	Fast 96-well plates optimized for 10 µl reactions	96-well plates, 0.2 ml tubes	96- or 384-well plate, 8 x 0.2ml strip tubes
Heating / Cooling Rate	4°C/s	6°C/s	-	-
Reaction Volume	5-100 µl	10-30 µl	5-100 µl	15-100 µl
Multiplexing Supported	8-plex	-	4-plex	5-plex
Dimensions (H x W x D)	352 x 395 x 430 mm	340 x 490 x 450 mm	396 x 260 x 410 mm	360 x 330 x 620 mm
Weight	28 Kg	34 Kg	24 Kg	17.6 Kg
Other features	Software: absolute quantification, relative quantification, SNP analysis, Melting curve, Gradient etc, Automatic Gain,	Software: absolute quantification, relative quantification, allelic discrimination, isothermal, melt curve analysis and plus/minus assays	Software: raw data, melting curve analysis, quantification/relative quantification, allelic discrimination	Software: allelic discrimination, gene expression and melting curve analysis, end point detection, absolute quantification

# ESCO

## HEALTHCARE

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