

ThermoFisher SCIENTIFIC

Overview of the QuantStudio[™] 3 & 5 Real-Time PCR System

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	QuantStudio™ 3 (96 well block 0.1ML)	QuantStudio™ 5 (384-well block)
Block configurations	10-30 µl	5-20 µl
Run time	<35 minutes (with fast mastermix)	<35 minutes
Excitation source	Bright white LED	Bright white LED
Optical Detection	4 coupled filters	5 coupled filters
21 CFR p11 enablement	No	Yes
Detection Sensitivity	10 log dynamic range sensitivity 1 copy 1.5 fold differences in target quantities	10 log dynamic range sensitivity 1 copy 1.5 fold differences in target quantities
On-Board Memory	10GB (2,000 - 6,000 run files)	10GB (2,000 - 6,000 run files)
N	te: Data file is always saved t	o the instrument!

A Flexible	Optical T	echno	logy : O	ptiFlex⊺	[™] System
	Filters Wavelength (nm) Emission Spectra	st-mt s2-m2 s3-m	60 st-mt st-mt sb-mt 60 700		
Channel	FAM [®] dye SYDR* Green dye Dye Examples	VIC* dys ABY* TAMRA Cy*3 NED* Excitation Filter	dye JUN ⁺ dye N * dye ROX * dye dye Texas Red* dye dye Emission Filter	luatang Purple* dye Cy*5 dye QuantStudio™ 3 (96-well)	QuantStudio™ 5 (384-well)
1	FAM [™] , SYBR [*] , SYTO [*] 9, Fluorescein, PTS Dye	470 ± 15nm	520 ± 15nm	~	~
2	VIC [®] , JOE [™] , TET [™] , HEX [™]	520 ± 10 nm	558 ± 12nm	~	~
3	TAMRA [™] , NED [™] ,, ABY [®] , BODIPY [®] TMR-X	550 ± 10nm	586 ± 10nm	~	~
4	ROX TM , JUN [*] , Texas Red [®]	580 ± 10nm	623 ± 14nm	~	~
5	LIZ™, Cy®5, Mustang Purple®	640 ± 10nm	682 ± 14nm		~
					ThermoFisher



QuantStudio[™] 3 Real-Time PCR Systems: The Basics

VeriFlex[™] Blocks

- 3 programmable zones
 - Independent temperature control in each zone (more precise than gradient)
- Can program at will, including multiple zones with same temp
 Great for optimization and also running multiple assays at the same time

















Enhanced Instrument Touchscreen • Power Failure Mode

- On-going run resumed automatically within 30'
- On screen notifications, Run log & instrument log

















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Barcode						
User name						
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Block type	96-Well 0.2-mi, Block	*				
Experiment type	Standard Curve					
Chemistry	TaqVanil Reagents					
Run mode	Fast	v				
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						Thermo



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APOE	VIC	NFQ-M	58		×			Import	and Sav	e to
FZD1	FAM	NFQ-M	68		×				Library	
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