

	QuantStudio™ 3 system	QuantStudio™ 5 system	QuantStudio™ 6 Pro system	QuantStudio™ 7 Pro system	QuantStudio™ 12K Flex system
Block format	Fixed block		Interchangeable block		
Blocks	96-well (0.1 mL or 0.2 mL)	96-well (0.1 mL or 0.2 mL) 384-well	96-well (0.1 mL or 0.2 mL) 384-well	96-well (0.1 mL or 0.2 mL) 384-well Applied Biosystems™ TaqMan™ Array Card block	96-well (0.1 mL or 0.2 mL) 384-well TaqMan™ Array Card block Applied Biosystems™ OpenArray block
Multiplexing	Up to 4 targets	96-well, up to 6 targets 384-well, up to 5 targets	Up to 5 targets	Up to 6 targets (96-well and 384-well block)	96-well, up to 6 targets   384-well, up to 5 targets TaqMan™ Array card: up to 3 targets OpenArray: up to 2 targets
Automation-ready	No	No	Upgradeable to QS7	Yes	Yes
Run time	<30 min runs	96-well, <30 min runs 384-well, <35 min runs	96-well, <30 min runs 384-well, <35 min runs	96-well, <30 min runs 384-well, <35 min runs	96-well, <30 min runs 384-well, <35 min runs
VeriFlex Block technology	Yes	Yes	Yes	Yes	No
Gradient capacity	VeriFlex 3 Zone (5°C Zone-to-Zone)	VeriFlex 6 Zone (5°C Zone-to-Zone)	VeriFlex 3 Zone (5°C Zone-to-Zone)	VeriFlex 6 Zone (5°C Zone-to-Zone)	N/A
Filter/colors	4 coupled excitation/emission filters	6 decoupled excitation/emission filters (0.1 mL or 0.2mL) 5 coupled excitation/emission filters (384-well)	5 coupled excitation and emission filters	6 decoupled excitation and emission filters (21 filter combos)	6 coupled excitation and emission filters (21 filter combos)
Dye Compatibility *	FAM™/SYBR™ Green, VIC™/JOE™/HEX™/TET™, ABY™/NED™/TAMRA™/Cy®3, JUN™/ROX™/Texas Red™; custom dyes	FAM™/SYBR™ Green, VIC™/JOE™/HEX™/TET™, ABY™/NED™/TAMRA™/Cy®3, JUN™/ROX™/Texas Red™; Mustang Purple™/Cy®5/LIZ™/Alexa Fluor™ 647; Cy®5.5 (96-well only); custom dyes	FAM™/SYBR™ Green; VIC™/JOE™/HEX™/TET™; ABY™/NED™/TAMRA™/Cy®3; JUN™/ROX™/Texas Red™; Mustang Purple™/Cy®5/LIZ™; Cy®5.5; custom dyes	FAM™/SYBR™ Green; VIC™/JOE™/HEX™/TET™; ABY™/NED™/TAMRA™/Cy®3; JUN™/ROX™/Texas Red™; Mustang Purple™/Cy®5/LIZ™; Cy®5.5; custom dyes	FAM™/SYBR™ Green; VIC™/JOE™/HEX™/TET™; ABY™/NED™/TAMRA™/Cy®3; JUN™/ROX™/Texas Red™; Mustang Purple™/Cy®5/LIZ™; Cy®5.5; custom dyes
Features to assist with 21 CFR Part 11 compliance	No	Yes	No	Yes	Yes
Footprint	27 cm (w) x 50 cm (d) x 40 cm (h)	27 cm (w) x 50 cm (d) x 40 cm (h)	33.8 cm (w) x 52.5 cm (d) x 54.7 cm (h)	33.8 cm (w) x 52.5 cm (d) x 54.7 cm (h)	53 cm (w) x 70 cm (d) x 75 cm (h)
Touchscreen	8.4 inch capacitive	8.4 inch capacitive	12 inch capacitive	12 inch capacitive	10.4 inch capacitive
System Configuration	Stand-alone, PC connected, or direct connection via LAN or Wi-Fi to the Connect Platform	Stand-alone, PC connected, or direct connection via LAN or Wi-Fi to the Connect Platform	Stand-alone, PC connected, or direct connection via LAN or Wi-Fi to the Connect Platform	Stand-alone, PC connected, or direct connection via LAN or Wi-Fi to the Connect Platform	PC connected, LAN
Dynamic Range	10-logs	10-logs	10-logs	10-logs	10-logs OpenArray: 7 logs
Analytical sensitivity	1 copy	1 copy	1 copy	1 copy	1 copy
Discrimination / Resolution	1.5-fold concentrations	1.5-fold concentrations	1.5-fold concentrations	1.5-fold concentrations	1.5-fold concentrations OpenArray: 2-fold

Note: The QuantStudio 6 Pro system can be upgraded to include many of the features of the QuantStudio 7 Pro system. Not all models are available in all regions. Contact your sales representative for more information.