Comparison Table : SDS 200 vs SDS 200A

Input	SDS200	SDS200A(NEW VERSION)
Max. sample rate	Realtime sampling: 100MS/s using one channel,	Realtime sampling: 100MS/s using one channel,
	50MS/s using two channels	50MS/s using two channels
	Equivalent sampling: 5GS/s	Equivalent sampling: 5GS/s
Channels	2	2
Bandwidth	200 MHz (-3dB)	200 MHz (-3dB)
	Single shot bandwidth:50MHz	Single shot bandwidth:50MHz
		20MHz bandwidth limiting function is available
Vertical resolution	9 bits/channel	9 bits/channel
Gain range	10mV ~ 10V/div @ x1 probe	10mV ~ 10V/div @ x1 probe
	(10mV, 20mV, 50mV, 100mV, 200mV, 500mV, 1V, 2V, 5V, 10V/div	(10mV, 20mV, 50mV, 100mV, 200mV, 500mV, 1V, 2V, 5V, 10V/div
	1,2,5 sequence)	1,2,5 sequence)
	100mV ~ 100V/div @ x10 probe	100mV ~ 100V/div @ x10 probe
	1V ~ 1000V/div @ x100 probe	1V ~ 1000V/div @ x100 probe
	10V ~ 10kV/div @x1000 probe	10V ~ 10kV/div @x1000 probe
Range	8 divisions	8 divisions
Offset level	+/-4 divisions	+/-4 divisions
Coupling	AC, DC	AC, DC, GND(S/W)
Offset increments	0.02 div	0.02 div
Impedance	1M ohm	1M ohm

DC accuracy	+/-3%	+/-3%
Input protection	42Vpk (DC + peak AC < 10 kHz, without external attenuation)	42Vpk (DC + peak AC < 10 kHz, without external attenuation)
Display Mode	Y-T, X-Y	Y-T, X-Y

Timebase	SDS200	SDS200A(NEW VERSION)
Timebase range	2ns/div ~ 10s/div	2ns/div ~ 10s/div
	(2ns, 4ns, 10ns, 20ns, 40ns, 100ns, 200ns, 400ns, 1us,	(2ns, 4ns, 10ns, 20ns, 40ns, 100ns, 200ns, 400ns, 1us,
	2us, 4us, 10us, 20us, 40us, 100us, 200us, 400us, 1ms,	2us, 4us, 10us, 20us, 40us, 100us, 200us, 400us, 1ms,
	2ms, 4ms, 10ms, 20ms, 40ms, 100ms, 200ms, 400ms, 1s,	2ms, 4ms, 10ms, 20ms, 40ms, 100ms, 200ms, 400ms, 1s,
	2s, 4s, 10s /div 1-2-4 sequence)	2s, 4s, 10s /div 1-2-4 sequence)
Acquisition mode	Equivalent sampling: 2ns/div ~ 4us/div	Equivalent sampling: 2ns/div ~ 4us/div
	Realtime sampling: 10us/div ~ 400ms/div	Realtime sampling: 10us/div ~ 400ms/div
	Roll mode: 1s/div ~ 10s/div	Roll mode: 1s/div ~ 10s/div
		Peak detection
Range	10 divisions	10 divisions
Pre/Post trigger	0% ~ 1000%	0% ~ 1000%
Time resolution	200ps	200ps
Buffer size	10K samples	10K ~ 512K samples

Trigger	SDS200	SDS200A(NEW VERSION)
Туре	Edge trigger: Rising edge, falling edge	Edge trigger: Rising edge, falling edge
	Logic trigger: AND, NAND, OR, NOR, XOR, XNOR	Pulse trigger: Less than width, more than width (10ns ~ 167ms)
	Pulse trigger: Less than width, more than width (10ns ~ 167ms)	Delay trigger: By event (1~16,777,215), by time (1us ~ 167ms)
	Delay trigger: By event (1~16,777,215), by time (10ns ~ 167ms)	
Mode	Auto, Normal and Single	Auto, Normal and Single
HF Rejection	No	Yes
Autoset	Yes	Yes
Range	10 divisions	10 divisions
Trigger level	+/-4 divisions	+/-4 divisions
Settabillity	0.02 div increments	0.02 div increments

Math	SDS200	SDS200A(NEW VERSION)
Measurements	Vp-p, Vmax, Vmin, Vmean, Vrms, Vamp, Vhigh, Vlow, positive	Vp-p, Vmax, Vmin, Vmean, Vrms, Vamp, Vhigh, Vlow, positive
	overshoot, negative overshoot, cycle mean, cycle rms, period,	overshoot, negative overshoot, cycle mean, cycle rms, period,
	frequency, positive pulse width, negative pulse width, rise time	frequency, positive pulse width, negative pulse width, rise time
	(10%~90%), fall time (10%~90%), positive duty cycle, negative	(10%~90%), fall time (10%~90%), positive duty cycle, negative
	duty cycle	duty cycle
Cursor	Time/frequency difference, voltage difference	Time/frequency difference, voltage difference
	Frequency only in FFT mode	Frequency only in FFT mode
Math	Addition, Subtraction, Multiplication, Division	Addition, Subtraction, Multiplication, Division
FFT	Rectangular, Hanning, Hamming, Blackman Window	Rectangular, Hanning, Hamming, Blackman Window

Physical	SDS200	SDS200A(NEW VERSION)
Interface	Universal Serial Bus (USB)	Universal Serial Bus (USB)
Power	No external power source required.	No external power source required.
	Bus-powered from USB	Bus-powered from USB
Calibration Signal Ouput	5V, 1kHz, Square Wave	3V, 1kHz, Square Wave
GND Ouput	No	Yes
Dimensions	5.1" x 4.4" x 1.5" (130 × 112 × 38mm)	5.1" x 4.4" x 1.5" (130 × 112 × 38mm)

Software	SoftScope1.3.2	SoftScope2.0
Reference	No	Yes
Cursor	1Mode(Cross)	3Mode(Cross, Vertical, Horizontal)
Invert	No	Yes
GND	No	Yes