Model	MSO4012 MSO4014	MSO4022 MSO4024	MSO4032 MSO4034	MSO4052 MSO4054
Bandwidth	100MHz	200MHz	350MHz	500MHz
Channels	Analogue: 2 (MSO40X2 Models), 4 (MSO40X4 Models) Digital: 16			
Maximum Sample Rate	Analogue: 4GSa/s total, 2GSa/s per channel Digital: 1GSa/s per channel			
Maximum Memory Depth	Analogue: 70Mpts per channel Digital: 28Mpts per channel			
Maximum Waveform Capture Rate	110,000wfms/s			
Time-Base Accuracy	≤±4ppm			
Time-Base Drift	≤±2ppm/year			
Time-Base Scale	5ns/div to 1,000s/div	2ns/div to 1,000s/div		1ns/div to 1,000s/div
Input Impedance	Analogue: 1MΩ ± 1% // 14pF ± 3pF or 50Ω ± 1.5% Digital: 101kΩ ± 1% // 8pF ± 2pF			
Vertical Scale	Analogue: 1mV/div to 5V/div (1MΩ), 1mV/div to 1V/div (50Ω) Digital: User-Defined Threshold Range ±20V in 10mV Steps			
DC Gain Accuracy	±2% Full Scale			

• Bandwidth Limit •	• 20MHz •	• 20MHz / 100MHz •	• 20MHz / 100MHz / 200MHz •	
• Real Time Waveform Record, • Replay and Analysis Function •	• Up to 200,000 Frames •			
• Standard Trigger Functions •	• Edge, Pulse Width, Nth Edge, Pattern, RS232, I2C, SPI, CAN, USB, FlexRay •			
• Optional Trigger Functions •	•			
• Standard Bus Decoding •	• Parallel Bus •			
• Optional Bus Decoding •	• RS232, I2C, SPI, CAN, FlexRay •			
• Math Functions •	• Analogue: A+B, A-B, AxB, A/B, FFT, Advanced Math, Logic Operations • Digital: Logic Operations •			
• Auto Measurements •	• Analogue: Vpp, Vamp, Vmax, Vmin, Vtop, Vbase, Vavg, Vrms, Overshoot, Preshoot, Area, Period Area, • Freq, Period, Rise Time, Fall Time, Width, -Width, Duty, -Duty, Delay A→B Rising Edge, • Delay A→B Falling Edge, Phase A→B Rising Edge, Phase A→B Falling Edge • • Digital: Freq, Period, Rise Time, Fall Time, Width, -Width, Duty, -Duty, • Delay A→B Rising Edge, Delay A→B Falling Edge, Phase A→B Rising Edge, Phase A→B Falling Edge •			
• Connectivity •	• USB Host & Device, LAN, VGA, 10MHz Input/Output, • Aux Output (TrigOut, Quick edge, PassFail, Calibration, GND) •			

Display	9" WVGA (800x480) TFT LCD, 256 Intensity Grading Level
Size (WxHxD)	440mm x 218mm x 130mm
Weight	4.8kg ± 0.2kg (without package)
Standard Probes	RP3500A 500MHz BW Passive Probe: 2 sets (MSO40X2 Models), 4 sets (MSO40X4 Models) + 1 set RPL2316 Logic Analyser Probe