

Mini Handheld LCR Meter **multicomp**PRO

RoHS
Compliant



Features

- Accuracy: 0.3%.
- With 2.8 inch TFT LCD.
- With data record function.
- Battery lasts up to 16 hours/AC-powered.
- Type C-to-USB connectivity for usage on PC.
- Detailed component analysis with L, C, R, Z, X, D, Q, θ , ESR functions.
- With 7 selectable test frequencies: 100Hz, 120Hz, 400Hz, 1kHz, 4kHz, 10kHz, 40kHz.
- Measurement range: Inductance (L) 0 to 2000H, Capacitance (C) 0 to 20mF, Resistance (R) 0 to 20M Ω .
- Auto identification (AUTO/R/C/L/Z) which automatically determines and displays component type and measurements.

Specification

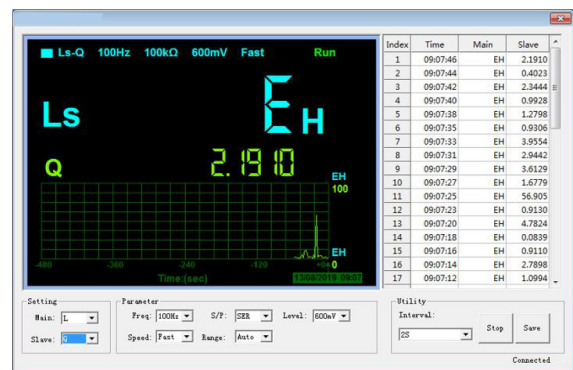
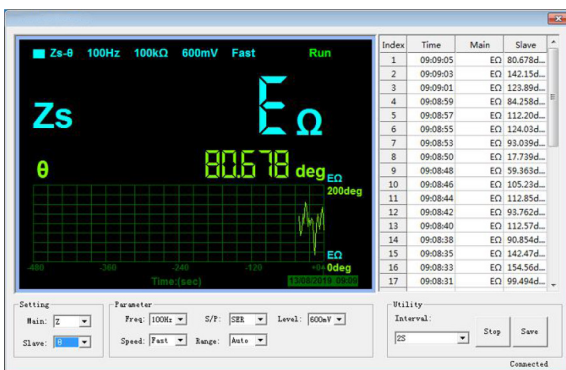
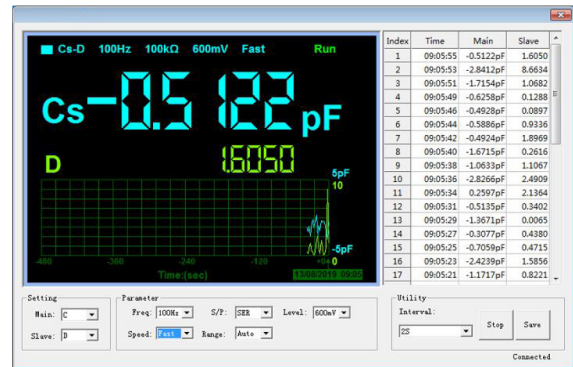
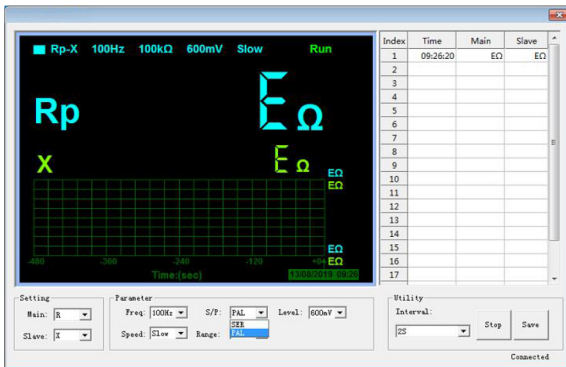
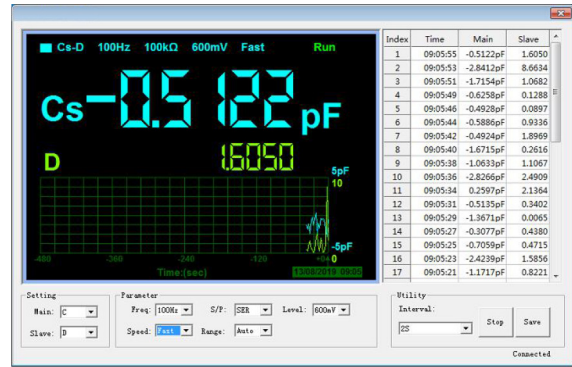
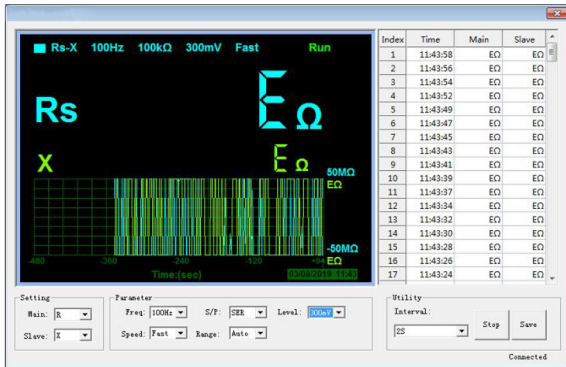
Test Frequency	100Hz, 120Hz, 400Hz, 1kHz, 4kHz, 10kHz, 40kHz	
Accuracy	0.3%	
Equivalent Circuit	Series, Parallel	
Test Signal Level	0.6V rms	
Ranging Mode	Manual and Auto	
Measurements	Major	L/C/R/Z
	Minor	X/D/Q/ θ /ESR
Inductance Range (L)	0H to 2000H	
Capacitance Range (C)	0mF to 20mF	
Impedance/Resistance Range (R)	0 Ω to 20M Ω	
Measurement Rate	High Rate	4 times/second
	Medium Rate	2 times/second
	Low Rate	1 time/second
Calibration Function	Open, Close	
Input Terminals/Sockets	3 terminals and 5 component sockets	
Display	2.8 inch TFT LCD	
Power Supply	Two 3.7V Lithium Battery or optional power adaptor	
Dimensions	199 mm (H) \times 98 mm (W) \times 40 mm (D)	
Weight	165 grams with battery	

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

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PC Software Functions



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Capacitance (C) and Dissipation (D)

100Hz/120Hz

Range	Display Range	Accuracy Ce	Accuracy De	Recommend Equivalent Mode
20mF	4mF to 20mF	8%+5 digits	0.08	Series
4mF	400 μ F to 3.9999mF	2%+3 digits	0.02	Series
400 μ F	400 μ F to 399.99 μ F	0.6%+2 digits	0.006	Series
40 μ F	4 μ F to 39.999 μ F	0.4%+2 digits	0.004	Series
4 μ F	400nF to 3.9999 μ F	0.4%+2 digits	0.004	-
400nF	40nF to 399.99nF	0.4%+2 digits	0.004	Parallel
40nF	4nF to 39.999nF	0.5%+3 digits	0.005	Parallel
4nF	0pF to 3.999nF	1.5%+5 digits	-	Parallel

1kHz

Range	Display Range	Accuracy Ce	Accuracy De	Recommend Equivalent Mode
1000 μ F	400 μ F to 999.9 μ F	3%+5 digits	0.03	Series
400 μ F	40 μ F to 399.99 μ F	1.5%+3 digits	0.015	Series
40 μ F	4 μ F to 39.999 μ F	0.6%+2 digits	0.006	Series
4 μ F	400nF to 3.9999 μ F	0.4%+2 digits	0.004	--
400nF	40nF to 399.99nF	0.4%+2 digits	0.004	Parallel
40nF	4nF to 39.999nF	0.6%+3 digits	0.006	Parallel
4nF	400pF to 3.9999nF	0.6%+3 digits	0.006	Parallel
400pF	0pF to 399.9pF	3%+5 digits	--	Parallel

10kHz

Range	Display Range	Accuracy Ce	Accuracy De	Recommend Equivalent Mode
100 μ F	40 μ F to 100 μ F	4%+5 digits	0.04	Series
40 μ F	4 μ F to 39.999 μ F	2%+3 digits	0.02	Series
4 μ F	400nF to 3.9999 μ F	0.6%+2 digits	0.006	Series
400nF	40nF to 399.99nF	0.4%+2 digits	0.004	Series
40nF	4nF to 39.999nF	0.4%+2 digits	0.004	--
4nF	4000pF to 3.9999nF	0.4%+2 digits	0.004	Parallel
400pF	40pF to 399.99pF	0.6%+3 digits	0.006	Parallel
40pF	0pF to 39.99pF	2.5%+5 digits	--	Parallel

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40kHz

Range	Display Range	Accuracy Ce	Accuracy De	Recommend Equivalent Mode
100 μ F	40 μ F to 100 μ F	6%+5 digits	0.06	Series
40 μ F	4 μ F to 39.999 μ F	4%+3 digits	0.04	Series
4 μ F	400nF to 3.9999 μ F	1%+2 digits	0.01	Series
400nF	40nF to 399.99nF	0.6%+2 digits	0.006	Series
40nF	4nF to 39.999nF	0.6%+2 digits	0.006	--
4nF	400pF to 3.9999nF	0.6%+2 digits	0.006	Parallel
400pF	40pF to 399.99pF	1%+3 digits	0.01	Parallel
40pF	0pF to 39.99pF	3%+5 digits	--	Parallel

Inductance (L) and Quality Factor

100Hz/120Hz

Range	Display Range	Accuracy Le	Accuracy De	Recommend Equivalent Mode
1000H	400H to 999.9H	2%+3 digits	0.02	Parallel
400H	40H to 399.99H	0.6%+2 digits	0.006	Parallel
40H	4H to 39.999H	0.4%+2 digits	0.004	Parallel
4H	400mH to 3.9999H	0.4%+2 digits	0.004	--
400mH	40mH to 399.99mH	0.4%+2 digits	0.004	Series
40mH	4mH to 39.999mH	0.6%+3 digits	0.006	Series
4mH	0uH to 3.999mH	3%+5 digits	--	Series

1kHz

Range	Display Range	Accuracy Le	Accuracy De	Recommend Equivalent Mode
1H	400mH to 999.9mH	1.5%+3 digits	0.015	Parallel
400mH	40mH to 399.99mH	0.4%+2 digits	0.004	Parallel
40mH	4mH to 39.999mH	0.4%+2 digits	0.004	--
4mH	400uH to 3.9999mH	0.4%+2 digits	0.004	Series
400uH	40uH to 399.99uH	0.8%+3 digits	0.008	Series
40uH	0uH to 39.99uH	3%+5 digits	--	Series

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10kHz

Range	Display Range	Accuracy Le	Accuracy De	Recommend Equivalent Mode
100H	40H to 100H	2%+3 digits	0.02	Parallel
40H	4H to 39.999H	0.6%+2 digits	0.006	Parallel
4H	400mH to 3.9999H	0.4%+2 digits	0.004	Parallel
400mH	40mH to 399.99mH	0.4%+2 digits	0.004	-
40mH	4mH to 39.999mH	0.4%+2 digits	0.004	Series
4mH	400uH to 3.9999mH	1%+3 digits	0.01	Series
400uH	0uH to 399.9uH	3%+5 digits	-	Series

40kHz

Range	Display Range	Accuracy Le	Accuracy De	Recommend Equivalent Mode
1H	400mH to 999.9mH	2%+4 digits	0.02	Parallel
400mH	40mH to 399.99mH	0.8%+2 digits	0.008	Parallel
40mH	4mH to 39.999mH	0.8%+2 digits	0.008	--
4mH	400uH to 3.9999mH	0.8%+2 digits	0.008	Series
400uH	40uH to 399.99uH	1.5%+3 digits	0.015	Series
40uH	0uH to 39.999uH	4%+5 digits	--	Series

Impedance (Z) and Phase Angle

100Hz, 120Hz, 1kHz, 10kHz

Range	Display Range	Accuracy Ze	Accuracy	Recommend Equivalent Mode
20MΩ	4MΩ to 20MΩ	3%+10 digits	3.4°	Parallel
4MΩ	400kΩ to 3.9999MΩ	1.2%+3 digits	0.7°	Parallel
400kΩ	40kΩ to 399.99kΩ	0.3%+3 digits	0.2°	Parallel
40kΩ	4kΩ to 39.999kΩ	0.25%+2 digits	0.1°	--
4kΩ	400Ω to 3.9999kΩ	0.25%+2 digits	0.1°	Series
400Ω	40Ω to 399.99Ω	0.25%+2 digits	0.1°	Series
40Ω	4Ω to 39.999Ω	0.5%+3 digits	0.3°	Series
4Ω	0.4Ω to 3.9999Ω	2%+3 digits	1.1°	Series
0.4Ω	0Ω to 0.3999Ω	4%+3 digits	--	Series

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40kHz

Range	Display Range	Accuracy Ze	Accuracy	Recommend Equivalent Mode
20MΩ	4MΩ to 20MΩ	7%+41 digits	4°	Parallel
4MΩ	400kΩ to 3.9999MΩ	2.5%+3 digits	1.4°	Parallel
400kΩ	40kΩ to 399.99kΩ	1%+4 digits	0.6°	Parallel
40kΩ	4kΩ to 39.999kΩ	1%+4 digits	0.6°	--
4kΩ	400Ω to 3.9999kΩ	0.5%+3 digits	0.3°	Series
400Ω	40Ω to 399.99Ω	0.5%+3 digits	0.3°	Series
40Ω	4Ω to 39.999Ω	0.7%+4 digits	0.4°	Series
4Ω	0.4Ω to 3.9999Ω	2%+6 digits	1.1°	Series
0.4Ω	0Ω to 0.3999Ω	5%+10 digits	--	Series

Accessory Included



Test lead clips
(1pc Red + 1pc Black)



Short circuit
metal sheet



Type-C data cable

Part Number Table

Description	Part Number
Mini Handheld LCR Meter, 0.3% Accuracy, 40kHz, 2.8" TFT LCD	MP700433

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