

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 10 selectable test frequencies: 100Hz, 120Hz, 400Hz, 1kHz, 4kHz, 10kHz, 40kHz, 50kHz, 75kHz, 100kHz.
- 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

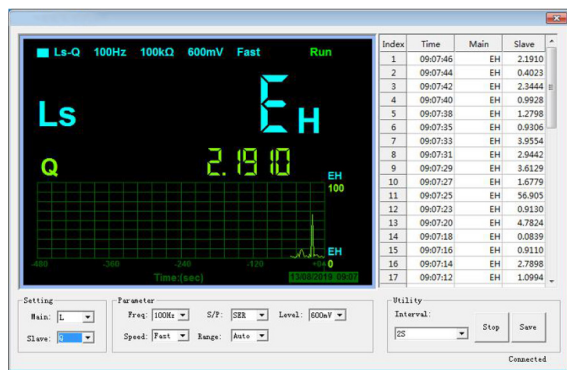
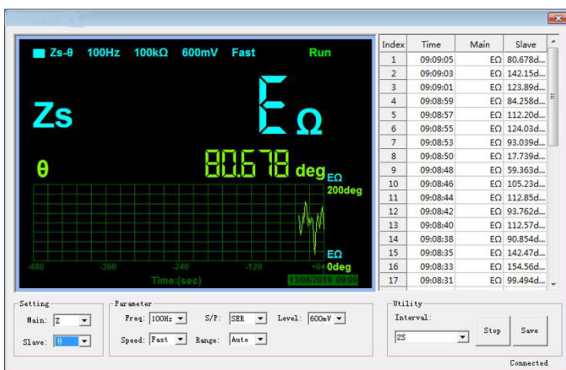
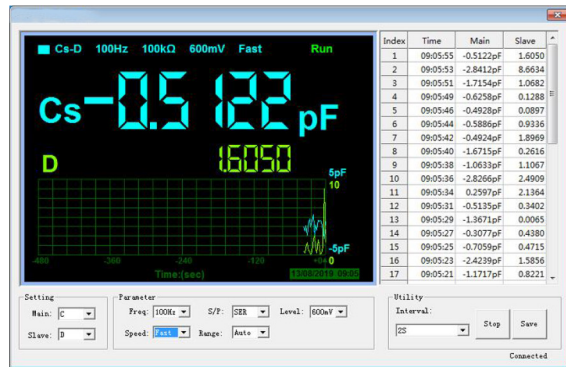
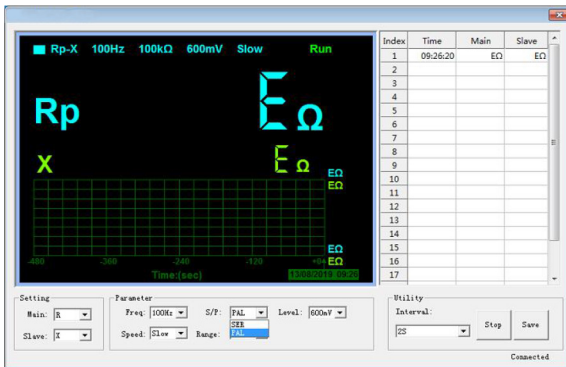
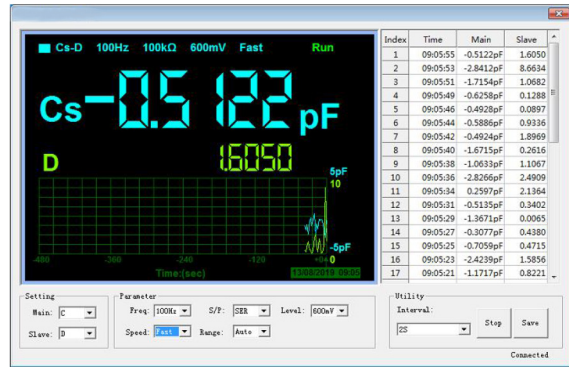
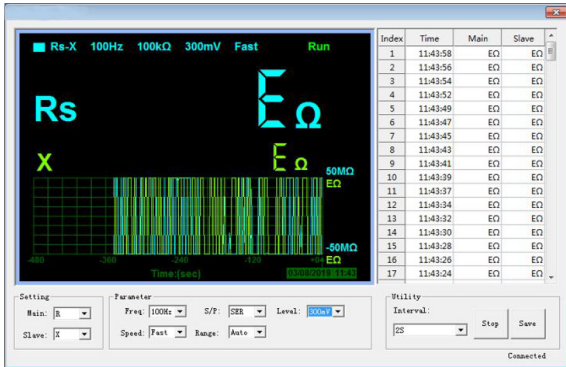
Test Frequency	100Hz, 120Hz, 400Hz, 1kHz, 4kHz, 10kHz, 40kHz, 50kHz, 75kHz, 100kHz	
Accuracy	0.3%	
Equivalent Circuit	Series, Parallel	
Test Signal Level	0.6V rms, 0.3V rms	
Ranging Mode	Manual and Auto	
Measurements	Major	L/C/R/Z
	Minor	X/D/Q/ θ /ESR
Inductance Range (L)	0H to 2000H	
Capacitance Range (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	199mm (H) \times 98mm (W) \times 40mm (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/400Hz

Range	Display Range	Accuracy Ce	Accuracy De	Recommend Equivalent Mode
20mF	4mF to 20mF	8%+5 digits	0.08	Series
4mF	400µF to 3.9999mF	2%+3 digits	0.02	Series
400µF	400µF to 399.99µF	0.6%+2 digits	0.006	Series
40µF	4µF to 39.999µF	0.4%+2 digits	0.004	Series
4µF	400nF to 3.9999µF	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/4kHz

Range	Display Range	Accuracy Ce	Accuracy De	Recommend Equivalent Mode
1000uF	400uF to 999.9uF	3%+5 digits	0.03	Series
400µF	40µF to 399.99µF	1.5%+3 digits	0.015	Series
40µF	4µF to 39.999µF	0.6%+2 digits	0.006	Series
4µF	400nF to 3.9999µF	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
100µF	40µF to 100µF	4%+5 digits	0.04	Series
40µF	4µF to 39.999µF	2%+3 digits	0.02	Series
4µF	400nF to 3.9999µF	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/50kHz

Range	Display Range	Accuracy Ce	Accuracy De	Recommend Equivalent Mode
100μF	40μF to 100μF	6%+5 digits	0.06	Series
40μF	4μF to 39.999μF	4%+3 digits	0.04	Series
4μF	400nF to 3.9999μF	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

75kHz/100kHz

Range	Display Range	Accuracy Ce	Accuracy De	Recommend Equivalent Mode
10μF	4μF to 10μF	8%+20 digits	0.08	Series
4μF	400nF to 3.9999μF	5%+10 digits	0.05	Series
400nF	40nF to 399.99nF	1.5%+5 digits	0.015	Series
40nF	4nF to 39.999nF	1%+2 digits	0.01	Series
4nF	400pF to 3.999nF	1%+2 digits	0.01	--
400pF	40pF to 399.99pF	1.5%+2 digits	0.015	Parallel
40pF	4pF to 39.999pF	2%+5 digits	0.02	Parallel
4pF	0pF to 3.999pF	5%+10 digits	--	Parallel

Inductance (L) and Quality Factor

100Hz/120Hz /400Hz

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

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1kHz/4kHz

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

10kHz/40kHz

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/50kHz

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

Note*: please calculate the quality factor according to the formula to calculate the accuracy of Q.

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75kHz/100kHz

Range	Display Range	Accuracy Le	Accuracy De	Recommend Equivalent Mode
100mH	40mH to 399.99mH	2.5%+2 digits	0.025	Parallel
40mH	4mH to 39.999mH	1.5%+2 digits	0.015	Parallel
4mH	400uH to 3.9999mH	1%+2 digits	0.01	--
400uH	40uH to 399.99uH	1%+2 digits	0.01	Series
40uH	4uH to 39.999uH	1.5%+5 digits	0.015	Series
4uH	0uH to 3.999uH	4%+10 digits	--	Series

Impedance (Z) and Phase Angle

100Hz/120Hz/400Hz/1kHz/4kHz/10kHz

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

40kHz/50kHz

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

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75kHz/100kHz

Range	Display Range	Accuracy Ze	Accuracy	Recommend Equivalent Mode
20MΩ	4MΩ to 20MΩ	9%+20 digits	5.2°	Parallel
4MΩ	400kΩ to 3.9999MΩ	4%+10 digits	2.3°	Parallel
400kΩ	40kΩ to 399.99kΩ	1.5%+4 digits	0.9°	Parallel
40kΩ	40kΩ to 39.999kΩ	1%+2digits	0.6°	Parallel
4kΩ	400Ω to 3.9999kΩ	0.7%+2 digits	0.4°	--
400Ω	40Ω to 399.99Ω	0.7%+2 digits	0.4°	Series
40Ω	4Ω to 39.999Ω	1%+5 digits	0.6°	Series
4Ω	0.4Ω to 3.9999Ω	3%+10 digits	1.7°	Series
0.4Ω	0Ω to 0.3999Ω	7%+20 digits	--	Series

Accessory Included



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



Short circuit
metal sheet



Type-C data cable



Power Adaptor

Part Number Table

Description	Part Number
Mini Handheld LCR Meter, 0.3% Accuracy, 100kHz, 2.8" TFT LCD	MP700434

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