

# METRA VI

700S series

True RMS Multimeter & Oscilloscope



Large 50,000 Counts  
320x240 TFT Color LCD Display



Built-in Oscilloscope and  
FFT Functions



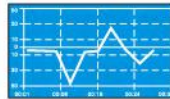
Basic DCV Accuracy 0.025%



Bandwidth 100kHz



Fast Responds, 20 times/sec



Logging Function with Trends  
Capture Memory 10,000 Readings



Record 10 Printscreens Under  
Oscilloscope Function



Accuracy Calibrated with  
PC Software



Bluetooth Interface



Support Meterbox Software  
and Cloud Services



IP67 Water and Dustproof



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## True RMS Multimeter

- Large 50,000 counts, TFT color LCD display, multiple sets of measurement information can simultaneously be displayed at the same time.
- On-board Trend Capture functions, able to review the logged data in graphic mode without the use of PC interface.
- Continuous records of multiple processes or data.
- Low pass filter can precisely measure the electronic signal-to-noise equipment voltage and frequency.
- Allow to name the saved measurements and recall the on-the-spot measured data by users.
- Real Time Clock- for automatic time stamping of saved readings.
- Relative mode eliminates the test line impedance existed in low resistance or capacitance measurement.
- Peak capture function, records transient signal as fast as 250us.
- Easy to save user's favorite measurement settings.

## Safety Conformance



Comply with EN61010-1  
CAT IV 600V/CAT III 1000V

1000V input protection on all ranges

10A/1000V & 0.5A/1000V fuses  
protection on current ranges

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### Oscilloscope

- Measures and displays directly waveform loads of AC/DC voltage and output signal of various signal sources.
- Movable cursor, measures precisely frequency and cycle of waveform loads.
- Able to record data of 10 pages, suitable for serial encoded signal observation and measurement.
- Single-button automatic searching function, able to search input waveform.
- Setup the display interface color according to user's taste.
- FFT-Fast Fourier Transform display function.



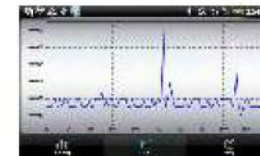
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## “Meterbox” Software and Cloud Services



- Bluetooth data transmission provides the customer an accurate, timely and efficient work.
  - Realize auto-calibration, paperless data processing and report generation by multi-functional application software.
  - The “Meterbox” software supports bluetooth products transferring the measured data to the customers' smart phone. Users can enjoy the cloud servers, cloud computing and cloud storage capabilities to achieve the function of a single instrument can not be achieved.
- \* Currently only supports “Android” platform



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## Specifications

Oscilloscope Function			
Bandwidth	10Hz to 10MHz		
Real Time Sample Rate	500S/s to 50MS/s		
Rise Time	17.5ns		
Record Length	3000 Points		
Vertical Sensitivity	50mV/div to 100V/div		
Vertical Resolution	8bits		
Time-Based Range	250ns to 50ms/div		
Trigger Mode	Internal rising edge, Internal falling edge, No trigger		
Trigger Source	Input signal		
Trigger Level	>0.5V		
Input Impedance	1M $\Omega$ /15pF		
Max Input Voltage	600V(Peak)		
Real Time Measurement	Waveform frequency, Voltage peak value		
Cursor Measurement	Voltage and Time		
FFT (Frequency Spectrum)	Frequency and Relative amplitude		
Screen Refresh Rate	Selectable refresh rate, Effectively reduce the visual fatigue		
True RMS Multimeter Function			
Function	Max Range	Max Resolution	Accuracy
Voltage DC	1000V	1uV	$\pm(0.025\%+5)$
Voltage AC	1000V	1uV	$\pm(0.4\%+40)$
Current DC	10A	0.01uA	$\pm(0.15\%+2)$
Current AC	10A	0.01uA	$\pm(0.07\%+5)$
Temperature	-200 to 1350°C	0.1°C	$\pm(1.0\%+1^\circ\text{C})$
	-328 to 2462°F	0.1°F	$\pm(1.0\%+1^\circ\text{F})$
Resistance	50M $\Omega$	0.001 $\Omega$	$\pm(0.05\%+2)$
Capacitance	10mF	0.001nF	$\pm(1.0\%+5)$
Frequency	50MHz	0.01Hz	$\pm(0.005\%+1)$
Short Circuit Test	YES		
Sample Rate	20 times/s		
Data Record	10,000 digits		
PC Interface	Bluetooth		
Power Supply	7.4V Li-ion rechargeable battery		

## Package Contents:

- Multimeter & Oscilloscope
- User Manual
- CD(PC & Calibration Software)
- CD(Meterbox User's Guide)
- Test Leads
- Oscilloscope Leads & Socket
- Crocodile Clips
- Type-K Temp. Probe & Socket
- Waterproof Sockets
- 7.4V Li-Ion Battery
- AC Adapter
- Carrying Case

