

# 2.5 GHz HAND HELD FREQUENCY COUNTER

## Model : FC-2500A

FEATURES	
<ul style="list-style-type: none"> <li>* High sensitivity for the VHF &amp; UHF freq. measurement, useful for the CB amateur.</li> <li>* Handheld &amp; pocket size instrument.</li> <li>* Wide measuring range up to 2.6 GHz.</li> <li>* Good resolution, 0.1 Hz min. display unit for 10 MHz range.</li> <li>* Used the exclusive Microprocessor IC offered the intelligent function: Frequency, Period, Multi resolution, Data hold, Relative measurement, Data record( Max., Min., Average reading).</li> <li>* Auto power off &amp; manual power off.</li> </ul>	<ul style="list-style-type: none"> <li>* LCD display for low power consumption &amp; clear read-out even in bright ambient light condition.</li> <li>* The instrument used the low PPM crystal time base to offer high accuracy measurement.</li> <li>* The optional telescoping antenna accessory can be used to pick up transmit frequencies from handheld, fixed or mobile radios such as: POLICES, FIRE FIGHTER'S, HAM, TAXI, AIRCRAFT MARINE, etc. at ranges of approaching 5 to 30 cm(depending on transmitter power, antenna obstructions, etc.).</li> </ul>

SPECIFICATIONS																			
Display	13mm (0.5") LCD (Liquid Crystal Display), 8 digits.																		
Measurement	Frequency, Data hold, Relative, Memory(max., min., average), Period.																		
Range	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>2500 MHz</td> <td>50 MHz to 2500 MHz(typical max. 2600 MHz)</td> </tr> <tr> <td>100 MHz</td> <td>5 MHz to 120 MHz.</td> </tr> <tr> <td>10 MHz</td> <td>10 Hz to 10 MHz</td> </tr> <tr> <td>Period</td> <td>10 Hz to 10 MHz</td> </tr> </table>	2500 MHz	50 MHz to 2500 MHz(typical max. 2600 MHz)	100 MHz	5 MHz to 120 MHz.	10 MHz	10 Hz to 10 MHz	Period	10 Hz to 10 MHz										
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Resolution, Sample Time	Ref. the following "Table for Resolution & Sample Time".																		
Sensitivity (rms)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>2500 MHz range</td> <td>50 MHz - 75 MHz</td> <td>100 mV</td> </tr> <tr> <td></td> <td>76 MHz - 2500 MHz</td> <td>50 mV</td> </tr> <tr> <td>100 MHz range</td> <td>5 MHz- 100 MHz</td> <td>50 mV</td> </tr> <tr> <td></td> <td>&gt; 100MHz to 120MHz</td> <td>100 mV</td> </tr> <tr> <td>10 MHz</td> <td>50 mV</td> <td></td> </tr> <tr> <td>Period</td> <td>50 mV</td> <td></td> </tr> </table>	2500 MHz range	50 MHz - 75 MHz	100 mV		76 MHz - 2500 MHz	50 mV	100 MHz range	5 MHz- 100 MHz	50 mV		> 100MHz to 120MHz	100 mV	10 MHz	50 mV		Period	50 mV	
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Period	50 mV																		
Frequency Accuracy	$\pm (4 \text{ PPM} + 1 \text{ d}) - 23 \pm 5^\circ\text{C}$ , after calibration.																		
Time Base circuit	4.194 MHz quartz crystal.																		
Time Base Temp. Coefficient	0.1 PPM/per (typical, $23 \pm 5^\circ\text{C}$ ).																		
Over-input	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>2500 MHz &amp; 100 MHz range</td> <td>Max. 5V peak to peak.</td> </tr> <tr> <td>10 MHz &amp; Period range</td> <td>Max. 250 V peak to peak</td> </tr> </table>	2500 MHz & 100 MHz range	Max. 5V peak to peak.	10 MHz & Period range	Max. 250 V peak to peak														
2500 MHz & 100 MHz range	Max. 5V peak to peak.																		
10 MHz & Period range	Max. 250 V peak to peak																		
Input Connector	BNC, female.																		
Case	Durable & strong ABS-plastic housing.																		
Operating Temperature	0 to 50 °C (32 to 122 °F).																		
Operating Humidity	Less than 80% RH																		
Power Supply	4 x 1.5 V AA(UM-3) battery.																		
Power Consumption	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>2500 MHz &amp; 500 MHz range</td> <td>Approx. DC 105 mA.</td> </tr> <tr> <td>10 MHz &amp; Period range</td> <td>Approx. DC 45 mA.</td> </tr> </table>	2500 MHz & 500 MHz range	Approx. DC 105 mA.	10 MHz & Period range	Approx. DC 45 mA.														
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10 MHz & Period range	Approx. DC 45 mA.																		
AC Adapter Power Input	Optional, 9V DC, 300 to 500 mA rating, central positive for socket.																		
Power Off	Automatic power off & manual power off.																		
Dimension	173 x 80 x 35mm (6.8 x 3.1 x 1.4 inch).																		
Weight	340 g/0.75 LB (including battery).																		
Standard Accessories	Instruction Manual ..... 1 PC.																		
Optional Accessories	AT-20 ....Telescoping RF pick-up antenna with BNC connector. PB-21 ....Direct probe with BNC connector & alligator clip pairs. (Be used only for the measuring frequency 500 MHz) CA-03 ....Soft carrying case.																		

Table for Resolution & Sample Time			
Range	Gate Time Select	Resolution	Sampling Time
2500 MHz	FAST	1000 Hz	0.5 SEC
	SLOW	100 Hz	2.75 SEC
	SLOW(select 1)	200 Hz	1.5 SEC
	SLOW(select 2)	500 Hz	0.75 SEC
100 MHz	FAST	100 Hz	0.75 SEC
	SLOW	10 Hz	6 SEC
	SLOW(select 1)	20 Hz	5 SEC
	SLOW(select 2)	50 Hz	1.5 SEC
10 MHz	FAST	10 Hz	0.5 SEC
	SLOW	1 Hz	1.25 SEC
	SLOW(select 1)	0.2 Hz	6 SEC
	SLOW(select 2)	0.1 Hz	11 SEC

\* Appearance and specifications listed in this brochure are subject to change without notice.