

# Battery Powered Portable PIM Analyzers

Portable Base Station Portable PIM Analyzers are in small size and in light weight. Analyzers is portable and easy to operate. Analyzers which evaluate the performance of components of indoor distribution system and antenna feed system have functions of IM test, spectrum test and SWR Test, and they improve the service performance of base station.



## PRODUCT FEATURES

- Small size light weight, easy to use
- Solid construction, high integration
- Three methods of measurement: Dot frequency, time domain, sweep frequency
- Remote control of the serial port
- Beeping LCD direction
- Battery power, continuous working time  $\geq 3$  hours
- Test with "one click", no need to construct complicated test platform
- Spectrum interference, SWR isolation test (option)
- User friendly, bilingual (Chinese/English)

## TECHNICAL SPECIFICATION

### SYSTEM

Measurement Method	Reverse (Reflected) PIM
Measurable order	IM3/IM5/IM7/IM9
Reflected Residual PIM	<-120dBm/-153dBc
Testing Port	1x RF output (7/16 DIN female) 1x RF input (N female)
User Interference	1xSerial port
Display	3" high light LCD
Frequency Stepping	200KHz/500KHz/1MHz/2MHz/5MHz
Frequency Accuracy	±3ppm
Power per tone (adjustable)	2x3W (+33dBm)
Power Stability	±0.5dB
Reversed Power Protection	10W
Measurement Noise Floor	≤-138dBm
Receiver Measurement Range	-55dBm to -135dBm
Receiver Accuracy	≤±0.5@-100dBm
Mains Power	30VDC,2500mAh lithium battery(Inserted)
Battery use length	3 hours continuous/8 hours interrupted
Warming-up Time	3 Minutes
Dimensions/Weight	250x100x230mm (LxWxH) 6Kg
Cooling	Air
Operating Temperature Range	-5°C to +35 °C
Protection Class	Indoor use
Relative Humidity	5% to 90% RH no-condensing

### **SPECTRUM ANALYSIS(OPTION 1)**

Frequency Range	100KHz to 3.0GHz
Aging Rate	±1×10 <sup>-6</sup> /one year
Stability	±2×10 <sup>-6</sup> /one year
Spectrum Measurement Range	20dBm to -110dBm

Frequency Resolution	10Hz
RBW	1KHz - 3MHz, 1-3 stepping
VBW	30Hz - 1MHz, 1-3 stepping
Reference Level Range	+20dBm to -90dBm
Level Accuracy	Normal Level $\leq \pm 1.5\text{dB}$ @+25°C
Scanning Rate	500ms to 2000 ms
Marking Mode	Peak Searching
Input Port	N type port
Input Impedance	50 Ohm
Input VSWR	$\leq 1.5$ (700to 2700MHz)

### Standing Wave Ratio(OPTION2)

Range of SWR	1.1~45
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### Isolation (OPTION3)

Range of Isolation	0~100dB
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## Models

Frequency band	System	TX RANGE	RX RANGE
P700	LTE	935-960MHz	890-915 MHz
P800	CDMA/NADC/AMPS	1805-1880 MHz	1710-1785 MHz
P900	GSM	2110-2170 MHz	890-915MHz
P1800	DCS1800	1805-1880MHz	1710-1785MHz
P1900	PCS1900/LTE	1930-1990MHz	1850-1910MHz
P2100	WCDMA/CDMA	2110-2170MHz	1920-2060MHz
P2400	WLAN	2400-2483.5MHz	2305-2336.5MHz

<b>P2600</b>	<b>WiMAX/UMTS2</b>	<b>2620-2695MHz</b>	<b>2545-2580MHz</b>
<b>P3500</b>	<b>WiMAX/Wireless IP</b>	<b>3510-3594MHz</b>	<b>3410-3484MHz</b>

**\* Customized**

**\* +36~+40dBm,but the relevant time shortened**