

Dual Band PIM Analyzers

PIM×××DB dual band PIM analyzers use “multi cellular band testing in one instrument” technology . The analyzers which combine several band into a common port applied for measuring PIM on broadband passive components (such as base station antenna ,RF connector ,cavity filter, arrester,jump cable, low PIM termination,ect) .The design of analyzers is integrative and compatible of multi bands which makes users have more fast and accurate experience.There are two different configuration of dual band analyzers---"6U type" and "3U type".



6U(Combined+Reflect)

6U(Reflect+Transmit)



3U(Combined+Reflect)

Product Features

- Fully configurable frequencies, power and IM products
- Apply to broadband and narrow-band passive components measurement
- Dual band output in single port
- Simple to operate, user-friendly ,bilingual (English/Chinese)
- ACCESS Database stored
- Reflect (standard) and transmit (option)
- Test frequency band automatic switchover with "one click"
- Three measurement methods:Dot Frequency,Time Domain,Frequency Sweep
- All bands of China Mobile are covered in PIM testing
- Analyzed result can be exported in format of Microsoft Word/Excel/PDF

Technical Specifications

System

Measurement Method	Reverse (Reflected) PIM / Transmitted PIM(Optional)
Measurement Type	Combined/Not Combined Type
Not Combined Type Residual PIM	$\leq -123\text{dBm}/-166\text{dBc}@2\times+43\text{dBm}$
Combined Type Residual PIM	$\leq -120\text{dBm}/-163\text{dBc}@2\times+43\text{dBm}$
Not Combined Type Testing Port	1×RF output (7/16 DIN female)
Combined Type Testing Port	2×RF output (7/16 DIN female)
Display	18"LCD
Intermodulation order	IM2 / IM3 / IM5 / IM7 / IM9
User's Port	4×USB,1×LAN

Trasmitter

Frequency Increment	200kHz/500kHz/1MHz/2MHz/5MHz
Frequency Accuracy	$\pm 3\text{ppm}$
Power per tone (adjustable)	2×1 to 25W (+30 to +44dBm in 1dB increments)
Power Accuracy	$\pm 0.5\text{dBm}$
Power Stepping	0.5dB
Reserve Protection Power	100W

Receiver

Measurement Noise Floor	$\leq -138\text{dBm}$
Measurement Range	-55dBm to -138dBm
Receiver Accuracy	$\leq \pm 0.5@-100\text{dBm}$

Electrical

Mains Power	AC 175-250V,50Hz
AC Power	$\leq 500\text{W}$

Warm-up Time

3 Minutes

Mechanical

Dimensions/Weight

6U :470×500×264mm (L×W×H)/approx 30kg

3U×2: 2×480×500×132 (L×W×H)/approx 30kg

Environmental

Operating Temperature Range

-5 °C to +35 °C

Relative Humidity

5% to 90% RH no-condensing

Cooling

Forced Air

Models

	System	TX Frequency	RX Frequency
PIM700S	LTE	745-793MHz	697-720MHz
PIM800S	CDMA/NADC/AMPS	869-894MHz	824-849MHz
PIM900S	GSM	935-960MHz	890-915MHz
PIM1800S	DCS 1800	1805-1880MHz	1710-1785MHz
PIM1900S	PCS 1900/LTE	1930-1990MHz	1850-1910MHz
PIM2100S	WCDMA/CDMA 2000	2110-2170MHz	1920-2060MHz
PIM2400S	WLAN	2400-2483.5MHz	2305-2336.5MHz
PIM2600S	WiMAX/UMTS2	2620-2695MHz	2545-2580MHz
PIM3500S	WiMAX/Wireless IP	3510-3594MHz	3410-3484MHz

* Customized