

Passive Intermodulation (PIM), the new benchmark in antenna system health, has become one of the greatest challenges of frequency planners in today's mobile communication systems. System planners, equipment and component vendors alike are faced with the ever changing dynamics of higher transmit signals, basestation sensitivity and the nonlinear response of two or more frequency signals causing serious interference and network signal degradation. With the uncertainty of the root cause of PIM in any given system, the need to deploy specific testing solutions in a professional, reliable instrument has become paramount in maintaining the overall antenna health for system providers.

PiMPro has been designed to meet these challenges. Its compact, portable yet rugged features provide maximum power in a reliable, field proven design without compromising the accuracy and precision of intermodulation measurements.

As a leading provider of wireless basestation enhancement products, CCI set out to design and develop a reliable solution to system performance and enhancement challenges. **PiMPro** employs state-of-the-art technology and is built to meet the demands and needs of today's wireless suppliers.

By design, the **PiMPro** Precision Passive Intermod Analyzer provides precise measurement of the 3rd, 5th, 7th and 9th order of intermodulation of any system or component under high-power conditions. In addition to passive intermodulation measurements, the unit will provide VSWR and Return Loss values. **PiMPro** can be used to verify the integrity of individual passive components including connectors, cable assemblies, antennas, filters, making it an integral performance tool in the field and in the lab.



Precision Test & Measurement Solutions by CCI



Technical Data

Communication Ports USB and Ethernet

PiMPro Portable Model	PiMPro 700 [Dual Band]		PiMPro 850	PiMPro 900	PiMPro1800	PiMPro 19	21 [Dual Band]				
Frequency Bands	LTE 700L	LTE 700U	Cellular 850	GSM 900	GSM 1800	PCS 1900	AWS				
Receive Range MHz	698-716	776-798	824-849	880-915	1710-1785	1850-1910	1710-1755				
Transmit Range MHz	728-746	746-768	869-894	925-960	1805-1880	1930-1990	2110-2155				
Weight	< 36 lbs (16.3 kg) Models 700 & 850 MHz										
Dimensions	18.7" × 14.8" × 7.0" (W×H×D) 475 mm × 375 mm × 180 mm (W×H×D)										
Operating Temperature	0-40°C, 32-113°F, 85% RH										
Storage Temperature											
Measures	3 rd , 5 th , 7 th and 9 th reflected passive intermodulation of transmission lines, connectors, filters and combiners, jumpers, splitters, tower mounted devices, other passive system components										
Alarms	Audio & Visual Display										
Residual Intermod Level	-122dBm (-165dBc at 20 Watts and -168dBc at 40 Watts)										
Receiver Noise Floor	-136 dBm										
Display Type	7" TFT Color Touch Screen										
Data Storage	USB Port and Internal Memory, supports HTML and PDF file format										
Measurement Modes	PIM and Return Loss, Frequency Sweep, PIM vs Time and RX Interference										
Power Requirement	90–256 V, 50–60 Hz										
Power Supply	450VA										
Power Test Port	2 variable signals adjustable from 33-46 dBm (40 Watts)										
Output Accuracy	± 0.2 dB										
PIM Measurement Accuracy	± 2.0 dB										
Directivity											
		. ,		Pi	MPro 1921						
Waterproof Enclosure		0	on regulations.		tability in a						
Certified		Rain / Vibration	/Drop Test			rugged,	field-proven				
	MIL-STD-810F	Immersion					design				



PiMPro 1921 PiMPro 900 PiMPro 850 PiMPro 700



PiMPro 850 Rack Mount is ideal for research and development, manufacturing and lab testing environments, as well as stationary calibration resource.

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PiMPro Rack Model	PiMPro 700 RM [Dual Band]		PiMPro 850RM	PiMPro 900 RM	PiMPro1800RM	PiMPro 1921	RM [Dual Band]			
Frequency Bands	LTE 700L	LTE 700U	Cellular 850	GSM 900	GSM 1800	PCS 1900	AWS			
Receive Range MHz	698-716	776-798	824-849	880-915	1710-1785	1850-1910	1710-1755			
Transmit Range MHz	728-746	746-768	869-894	925-960	1805-1880	1930-1990	2110-2155			
Weight	< 36 lbs (16.3 kg) Models 700 & 850 MHz									
Dimensions	18.7"×14.8"×7.0" (W×H×D) 475mm×375mm×180mm (W×H×D)									
Operating Temperature	0-40°C, 32-113°F, 85% RH									
Storage Temperature	-10-60°C, 14-140°F, 85% RH									
Measures	3 rd , 5 th , 7 th and 9 th reflected passive intermodulation of transmission lines, connectors, filters and combiners, jumpers, splitters, tower mounted devices, other passive system components									
Alarms	Audio & Visual Display									
Residual Intermod Level	-122dBm (-165dBc at 20 Watts and -168dBc at 40 Watts)									
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Display Type	7" TFT Color Touch Screen									
	USB Port and Internal Memory, supports HTML and PDF file format									
	PIM and Return Loss, Frequency Sweep, PIM vs Time and RX Interference									
	90-256V, 50-60Hz									
Power Supply										
	2 variable signals adjustable from 33–46 dBm (40 Watts)									
Output Accuracy	± 0.2dB									
PIM Measurement Accuracy	± 2.0dB									
Directivity										
	Via touch screen display; measurement mode, set-up, test time									
	USB									
Accessories Available										
Accessories Included	Power Cord, Operation Manual									

PiMPro-AK Low PIM Male DIN to Female DIN jumper cable

Female DIN

Low PIM 1.5 m Cable Low PIM load <-168 dBc

Adjustable Wrench

Accessory Kit

Low PIM Male DIN to Male DIN jumper cable

Low PIM 7–16 DIN Male to Male Adapter Low PIM 7–16 DIN Female to Female Adapter Low PIM 7–16 DIN Male to N Female Adapter Low PIM 7–16 DIN Male to N Male Adapter Low PIM Termination (Load) with both Male and

Low PIM Standard Verification Source Tool

Torque Wrench for 7-16 DIN Connector

Small 32 mm Wrench for 7-16 DIN

PiMPro Universal Accessory Kit PiMPro-AK

3m (10 ft) length

3m (10 ft) length





Communication Components Inc. is one of the fastest growing providers of basestation enhancement products and services. Our innovative solutions are designed and installed to allow service providers to get the most out of their basestation investments. With 25 years experience as a wireless technology service provider, and our worldwide network of manufacturing and service centers, CCI is poised to deliver the expertise, technology, and reliability to meet all your basestation enhancement needs. Contact an area representative today.

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PiMPro is also available from these fine independent industry partners.



Delivering Results You Can Trust Since 1965

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