

# PiMPro

PRECISION PASSIVE INTERMOD ANALYZER

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 and 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.

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.

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.

*Recommended applications include: Site installation, mobile operators, system integration, lab testing, calibration, research and development, and manufacturing.*

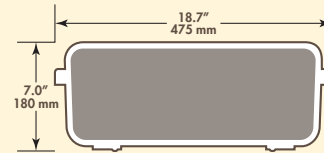


# PiMPro Technical Data



Frequency Bands	Receive Range MHz	Transmit Range MHz
LTE 700	646 - 773	776-793
Cellular 850	824-849	869-894
GSM 900	880-915	925-960
GSM 1800	1710-1785	1805-1880
PCS 1900	1850-1910	1930-1990
AWS	1710-1755	2110-2170

**Dimensions** 18.7" x 14.8" x 7.0" (W x H x D)  
475 mm x 375 mm x 180 mm (W x H x D)



**Weight** < 36 lbs (16.3 kg) Models 700 & 850 MHz  
< 28 lbs (12.72 kg) Models 1900 & 2100 MHz

**Operating Temperature** 0-45°C, 32-117°F, 85% RH

**Storage Temperature** -10-60°C, 14-140°F, 85% RH

**Measures** 3<sup>rd</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 9<sup>th</sup> reflected passive intermodulation of transmission lines, connectors, filters and combiners, jumpers, splitters, tower mounted devices, other passive system components

**Alarms** Audio & Visual Display

**Intermod Level** < -168 dBc

**Display Type** 7" TFT Color Touch Screen

**Data Storage** USB Port

**Measurement Modes** Instantaneous PIM and Return Loss, Frequency Sweep, PIM vs Time

**Power Requirement** 90-256V, 50-60Hz

**Power Supply** 450VA

**Power Test Port** 2 variable signals adjustable from 20-46 dBm (40 Watts)

**Output Accuracy** ± 0.3 dB

**Directivity** > 25 dB

**Software Controls** Via touch screen display; measurement mode, set-up, test time

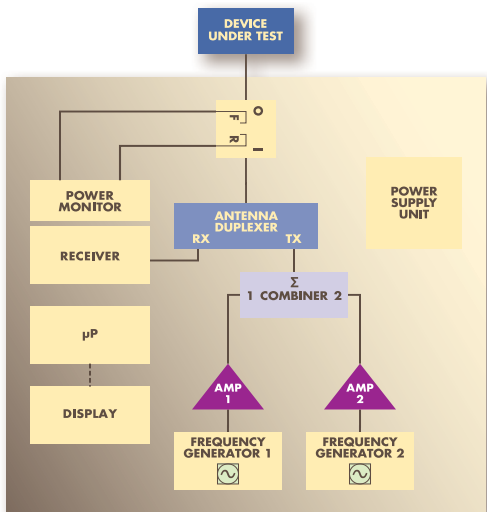
**Waterproof Enclosure** IP67 rated for ingress, dust and immersion

Meets airline carry-on regulations  
Certified: ASTM D4169 Rain / Vibration / Drop Test  
MIL-STD-810F Immersion

**Accessories Included** Power Cord, Operation Manual

**Available Accessories** Calibration Torque Wrench  
Low PIM 7/16 DIN Male to Male Adapter  
Low PIM 7/16 DIN Female to Female Adapter  
Low PIM 1.5M Cable  
Low PIM load < -168 dBc

**Communication Ports** Ethernet and RS232C



For product ordering information contact your area Communication Components Inc. Account Representative or independent distributor.

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