

CCI's Portable PiMPro Datasheet

Approved for all major carriers

Electro Rent Europe and Communications Components Inc., (CCI) have announced a key partnership to sell Passive Intermodulation (PIM) products – the PiMPro Portable. Electro Rent Europe enables easier acquisition by offering a range of financial alternatives. These include rent, lease, net-30 day purchases and other flexible financing to meet your budget needs.

The PIM Problem:

Passive Intermodulation (PIM) creates a challenge for those installing and maintaining networks in today's mobile communication systems. PIM may come from nearly any passive component, and is especially difficult to manage in 4G/LTE systems.

The Impact: Lower System Efficiency

Unwanted PIM signals cannot be filtered out. When they fall within the receive band of a base station, they may be interpreted as legitimate signals. They can slash efficiency in transmission rates and cause dropped calls. PIM can even create FCC compliance complaints.

The Solution: PiMPro Precision Passive Intermod Analyzer

CCI's PiMPro verifies the integrity of individual passive components and cascaded component paths under high power conditions, making it an integral performance tool in the field and lab. Its portability and ease of use make it a must-have addition to the installation and maintenance toolbox.

Key Differentiators of CCI PiMPro Products

- Light Weight – 16.3 kg
- Small Form Factor – 475 mm x 375 mm x 180 mm (W x H x D)
- Power Output – 2 Watts to 40 Watts (40 Watts to support newer standards like LTE)
- Receiver noise floor of -136 dBm
- Return Loss and Spectrum Analyzer Measurements



Electro Rent Europe gives you more ways to acquire PiMPro

Electro Rent Europe is recognized worldwide for its engineering expertise, local and astute customer service available, and varied and flexible acquisition options. Here are several alternatives for obtaining CCI equipment that will fit your budget and product plans:

- Month-to-Month Rentals – Rent for short-term projects (12 months or less) when your duration is uncertain
- Purchase New – Net-30 days
- Operating Lease/Rent-to-Own – Lease for continuous use over a projected term of 12-36 months



To request more information or a demo, contact Electro Rent Europe.



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CCI's Portable PiMPro Quick Facts

- Highest output power to weight ratio available - up to 40 Watts per tone output in a sub 35 lb portable carry-on size enclosure.
- Portable, accurate, lightweight, small size - legal TIA carry-on.
- Easy to use touchscreen graphical interface.
- Designed for harsh field environments.
- High accuracy and performance. -132 dBm PIM sensitivity at 40 Watts per tone --> PIM measurements as low as -178 dBc.

PiMPro Technical Data:

PiMPro Portable Model	PiMPro 700 [Dual Band]		PiMPro 850	PiMPro 900	PiMPro 1800	PiMPro 1921 [Dual Band]	
Frequency Bands	LTE 700L	LTE 700U	Cellular 850	GSM 900	GSM 1800	PCS 1900	AWS 2100
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)						
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	-10 – 60°C, 14 – 140°F, 85% RH						
Measures	3rd, 5th, 7th and 9th 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	-122 dBm (-165 dBc at 20 Watts and -168 dBc 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	500 Watt						
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	> 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						
Communication Ports	USB and Ethernet						

* Combined RMS

** Specifications are for a 50 Ohm device