

## iMT Series

### Portable Passive Intermodulation Analyzer



Passive Intermodulation (PIM) Analyzer

The iMT series Passive Intermodulation (PIM) analyzer is an economical, high power PIM test solution. This rugged, simple to operate design enables network operators to improve site performance by finding and eliminating sources of passive intermodulation at the cell site.



### PRODUCT FEATURES

- Rugged, reliable construction suitable for field use
- Fixed frequencies, powers and IM product
- Integrated polycarbonate transit case
- Integrated return loss measurement
- Simple LED user interface
- PC interface for report generation

### TECHNICAL SPECIFICATIONS |

#### SYSTEM

Measurement method	Reverse (reflected) PIM, 3rd order
Residual PIM	< -107dBm/-150dBc max (-115dBm/-158dBc typ.)
Return loss range	-1 to -20dB
Return loss accuracy	± 2dB (± 1dB typ.)
Internal cable load power rating	40W continuous
Internal cable load return loss	< -20dB typ.
Internal cable load residual PIM	< -107dBm/-150dBc (-115dBm/-153dBc typ.)
User interface ports	1x RS-232 (DB9 female) 1x RF output (7-16 DIN female) 1x internal cable load (7-16 DIN female) 1x monitor port (type-N female)
Display	LED's indicate PIM, power or return loss

#### TRANSMITTER

Transmit frequencies	See model table
Frequency accuracy	± 5ppm (max), aging ± 1ppm (max) after first year
Power per tone (fixed)	2x 20W (+43dBm)
Power accuracy (per tone)	± 0.5dB (max)

## TECHNICAL SPECIFICATIONS CONTINUED |

### RECEIVER

Receive frequency	See model table
Measurement noise floor	< -120dBm
Measurement range	-60dBm to -107.5dBm (-60dBm to -120dBm with laptop interface software)

### ELECTRICAL

Mains power	110-230V, 50/60Hz AC
Power consumption	< 200W

### MECHANICAL

Dimensions	22 x 14 x 9in (550 x 350 x 230mm)
Weight	< 43lbs (18.7kg)
Cooling	Forced air

### ENVIRONMENTAL

Operating temperature range	0°C to +55°C
Storage temperature range	-10°C to +60°C
Ingress protection (IP)	IP20 (with lid open) IP63 (with lid closed)
Relative humidity	5% to 95% RH non-condensing

## MODELS |

	DESCRIPTION	TX FREQUENCY 1	TX FREQUENCY 2	RX FREQUENCY (PIM)
iMT-800A	850MHz	891.5MHz	869.0MHz	846.5MHz
iMT-900A	GSM900	960.0MHz	935.0MHz	910.0MHz
iMT-1000A	CDMA / GSM900	935.3MHz	884.7MHz	834.1MHz



Record data directly to laptop using interface software.

Self contained, ruggedized transport case.

**WARNING:** Use of the portable PIM analyzer in a radiating mode, for example when connected to an antenna not enclosed in an anechoic environment, may be a violation of licensing regulations. Users should have permission in advance, from any licensed operators that might be affected by these tests. Furthermore, radiating high RF power can pose a personnel risk.

Specifications subject to change without notice.