

iQA Series

Portable Passive Intermodulation Analyzer



Passive Intermodulation (PIM) Analyzer

The iQA series Passive Intermodulation (PIM) analyzer is a feature rich, high power PIM test solution. This field proven analyzer enables network operators to improve site performance by finding and eliminating sources of passive intermodulation at the cell site. The design includes an integrated panel PC with intuitive touch screen interface for performing tests and generating site reports.



PRODUCT FEATURES

- Rugged, reliable construction suitable for field use
- Fully configurable frequencies, powers and IM product
- Integrated polycarbonate transit case
- Threshold alarm
- Simple to operate touch screen interface
- Internal report generation

TECHNICAL SPECIFICATIONS |

SYSTEM

Measurement method	Reverse (reflected) PIM, 3rd, 5th, 7th and 9th order
Residual PIM	< -110 dBm/-153dBc max (<-115 dBm/-158dBc typ.)
User interface ports	2x USB, x1 LAN 1x RF output (7-16 DIN female) 1x monitor port (type-N female)
Display	8.4in (213mm) touch screen display

TRANSMITTER

Transmit frequencies	See model table
Frequency increment	50 kHz
Frequency accuracy	± 5ppm (max), aging ± 1ppm (max) after first year
Power per tone (adjustable)	2x 2 to 20W (+33 to +43dBm)
Power accuracy (per tone)	± 0.5dB (max)

RECEIVER

Receive band (50kHz steps)	See model table
Measurement noise floor	< -128dBm
Measurement range	-50dBm to -128dBm

TECHNICAL SPECIFICATIONS CONTINUED |

ELECTRICAL

Mains power	115-230V, 50/60Hz AC
Power consumption	650W

MECHANICAL

Dimensions	19 x 18 x 12in (500 x 457 x 305mm)
Weight	< 50lbs (22.7kg)
Cooling	Forced air

ENVIRONMENTAL

Operating temperature range	-10°C to +40°C
Storage temperature range	-20°C to +60°C
Ingress protection (IP)	IP20 (with lid open) IP21 (with lid closed)
Relative humidity	5% to 95% RH non-condensing
Mechanical shock	40G shock rating

MODELS |

	DESCRIPTION	TX RANGE	RX RANGE (PIM)
iQA-850A	850MHz	869-894MHz	824-849MHz
iQA-900A	GSM900	935-960MHz	890-915MHz
iQA-1800A	DCS1800	1805-1880MHz	1710-1785MHz
iQA-1900A	PCS1900	1930-1990MHz	1850-1910MHz
iQA-1921A	Dual band PCS/AWS	1930-1990MHz/2110-2155MHz	1710-1755MHz/1850-1910MHz
iQA-2100A	UMTS (special band)	2110-2170MHz	2050-2090MHz



Vertical orientation for easy access to user interface.



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.