

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
- Spectrum analyzer mode
- Simple to operate touch screen interface
- Internal report generation

TECHNICAL SPECIFICATIONS |

SYSTEM

Measurement method	Reverse (reflected) PIM, 3rd, 5th, 7th, 9th and 11th order
Residual PIM	< -115dBm/-158dBc max (<-125dBm/-168dBc typ)
User interface ports	2x USB, x1 LAN 1x RF output (7-16 DIN 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-700LB	700MHz (low)	728-746MHz	698-716MHz
iQA-700HB	700MHz (high)	728-757MHz	776-787MHz
iQA-850B	850MHz	869-894MHz	824-849MHz
iQA-900B	GSM900	935-960MHz	890-915MHz
iQA-0901B	EGSM 900	925-960MHz	880-915MHz
iQA-1800B	DCS1800	1805-1880MHz	1710-1785MHz
iQA-1921B	Dual band PCS/AWS	1930-1990MHz/2110-2155MHz	1710-1755MHz/1850-1910MHz
iQA-2101B	UMTS (3rd & 7th order)	2110-2170MHz	1920-2080MHz



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.