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# iQA Series

## Portable Passive Intermodulation 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.



#### Passive Intermodulation (PIM) Analyzer

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

#### TECHNICAL SPECIFICATIONS |

#### SYSTEM

Measurement method	Reverse (reflected) PIM, 3rd, 5th, 7th and 9th 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 |

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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 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.

to user interface.