

IXA SERIES

BATTERY PORTABLE PASSIVE INTERMODULATION ANALYZER

The Kaelus iXA Series Passive Intermodulation (PIM) analyzer is a dualport, battery powered PIM Test Analyzer. It supports multiple test scenarios such as testing at the top of the tower, the base of the tower, rooftop, inbuilding for DAS systems and external PIM Finding.

No other PIM tester has ever been integrated to this level! The iXA includes a network of electronic switches to change from one-port to two-port measurement seamlessly. In addition, with integrated Range-to-Fault (RTF) on each port, the user can first troubleshoot the system for internal PIM. Then, without reconnection, the user can progress with the external PIM process, making the entire process much more efficient.

With integrated RTF on each port, the user can collect four times more range-to-fault data than the standard 1-port PIM Finder solution. Thus, the user can easily locate and swiftly eliminate the strongest PIM source.



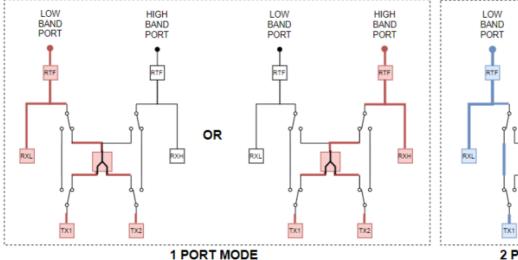
FEATURES

- Rugged and reliable; designed with tower climbers in mind
- Fully configurable frequencies, powers and IM products
- Remote control possible with handheld device, eg tablet, cell phone
- Simple to operate touch screen interface
- · Extensive reporting capabilities
- Spectrum monitor, frequency sweep and time trace modes
- Inbuilt Range-to-Fault (RTF) on both ports
- Battery powered
- Dual-port 40W mode for optimum external PIM Finding

The iXA is a highly integrated unit, including:

- a network of electronic switches to seamlessly change between one-port and two-port measurement
- Integrated RTF on each port

Consequently, no RF reconnection is required to switch between one-port testing, two-port testing and RTF measurement on either port, making the PIM measurement process much more efficient.



LOW HIGH BAND PORT PORT RTF

The RTF measurement is optimized for external PIM Finding:

- The internal RF filters provide full RX frequency sweeping ranges, thus the Distance to PIM resolution is maximized.
- The RTF measurement can be performed as two "one-port" measurements and two "two-port" measurements seamlessly. The user can collect four times more range-to-fault data than the standard 1-port PIM Finder solution.

Thus, the user can easily locate and swiftly eliminate the strongest PIM source.

iXA Series



TECHNICAL SPECIFICATIONS

Measurement method Reverse (reflected) PIM, 3rd, 5th and 7th order. Residual PIM -123dBm*-166dBc maximum (<-128dBm*-171dBc typical) @2x43dBm Power per tone (adjustable) 0.5W to 20W (+27 to +43dBm in 1dB increments) SYSTEM -2 PORT MODE Measurement method Reverse (reflected) PIM, 3rd, 5th and 7th order. Cross band Residual PIM (*) -123dBm*-166dBc maximum (<-128dBm*-171dBc typical) @2x46dBm Power per tone (adjustable) 1W to 40W (+30 to +46dBm in 1dB increments) Wote: (*) 25dB Port to Port isolation assumed SYSTEM 2x RF output (7-16 DIN female), 1x USB 2.0 Host, 1x USB 2.0 Slave, 1x SD 1x monitor port (SMB female), 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reflected) PIM semale), 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reflected) PIM semale), 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reflected) PIM semale), 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reflected) PIM semale), 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reflected) PIM semale), 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reflected) PIM semale), 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reflected) PIM semale, 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reflected) PIM semale, 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reflected) PIM semale, 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reflected) PIM semale, 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reflected) PIM semale, 1x SMM-RP (Wi-Fi external antenna) Local - louch screen display 4 3in (109mm) Reverse (reverse (reverse 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OVOTEM 4 DODT MODE				
Residual PIM	SYSTEM - 1 PORT MODE				
Power per tone (adjustable) 0.5W to 20W (+27 to +43dBm in 1dB increments) SYSTEM - 2 PORT MODE Measurement method Reverse (reflected) PIM, 3rd, 5th and 7th order. Cross band Residual PIM (*) <		, , , , , , , , , , , , , , , , , , ,			
### System - 2 PORT MODE Measurement method	Residual PIM	<-123dBm/-166dBc maximum (<-128dBm/-171dBc typical) @2x43dBm			
Review (reflected) PilM, 3rd, 5th and 7th order. Cross band Residual PIM (*) <-123dBm'-166dBc maximum (<-128dBm'-171dBc typical) @2x46dBm Power per tone (adjustable) 1W to 40W (+30 to +46dBm in 1dB increments) (voite; (*) 25dB Port to Port isolation assumed SYSTEM 2x RF output (7-16 DIN female), 1x USB 2.0 Host, 1x USB 2.0 Slave, 1x SD 1x monitor port (SMB female), 1x SMA-RP (Wi-Fi external antenna) User interface ports 2x RF output (7-16 DIN female), 1x USB 2.0 Host, 1x USB 2.0 Slave, 1x SD 1x monitor port (SMB female), 1x SMA-RP (Wi-Fi external antenna) User interface Remote - tablet, computer, any Wi-Fi enabled user device with web browser Kaelus Unity app compatible with IOS and Android devices, free download from Apple Store and Google Play Store. Return loss alarm Compliance IEC-62037 Transmit frequencies See model table Frequency increment 100kHz Frequency accuracy ± 5ppm maximum, aging ± 1ppm maximum after first year Power accuracy (per tone) ± 0.5dB maximum RECEIVER Receive band (100kHz steps) Measurement noise floor 4.128dBm Measurement range 5.50 VDC, 3450 mAh, 90Wh Lithium Ion battery packs (removable) Battery operating time Battery operating time Battery operating time Depends on usage, 3 hr minimum per battery pack Battery oberating time Battery oberating time Depends on usage, 3 hr minimum per battery pack Battery charger Output: 29.4 VDC, 1.2 Amp Weight 19% Los 455°C +14°F to +113°F Ingress protection Operational humidity 5% 10.95% RH non-condensing -10°C to +65°C +14°F to +113°F Forgers and performed as a condensing -10°C to +60°C +14°F to +140°F	Power per tone (adjustable)	0.5W to 20W (+27 to +43dBm in 1dB increments)			
Cross band Residual PIM (*) Power per tone (adjustable) 1W to 40W (+30 to +46dBm in 1dB increments) Note: (*) 25dB Port to Port isolation assumed SYSTEM 2x RF output (7-16 DIN female), 1x USB 2.0 Host, 1x USB 2.0 Slave, 1x SD 1x monitor port (SMB female), 1x SMA-RP (Wi-Fi external antenna) Local - touch screen display 4.3 in (109mm) Remote - tablet, computer, any Wi-Fi enabled user device with web browser Kaelus Unify app compatible with I/OS and Android devices, free download from Apple Store and Google Play Store. Return loss alarm Compliance Return loss alarm Compliance IEC-62037 TRANSMITTER Transmit frequencies See model table Frequency accuracy \$ 5ppm maximum, aging \$ 1ppm maximum after first year \$ 0.05dB maximum RECEIVER Receive band (100kHz steps) Measurement noise filoor Measurement range \$ 50dBm to -128dBm Battery power \$ 25.9 VDC, 3450 mAh, 90Wh Lithium Ion battery packs (removable) Battery operating time Depends on usage, 3 hr minimum per battery pack Battery operating time Depends on usage, 3 hr minimum per battery pack Battery operating time Depends on usage, 3 hr minimum per battery pack MECHANCAL Dimensions H x D x W 397 x 205 x 240mm 15.6 x 8 x 9.4in Weight 1954 148 to -113*F Ingress protection Power along Power a	SYSTEM - 2 PORT MODE				
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Remote tablet, computer, any Wi-Fi enabled user device with web browser Kaelus Unify app compatible with iOS and Android devices, free download from Apple Store and Google Play Store.	Interface ports				
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Transmit frequencies See model table Frequency increment 100kHz Frequency accuracy ± 5ppm maximum, aging ± 1ppm maximum after first year Power accuracy (per tone) ECECIVER Receive band (100kHz steps) Measurement noise floor Measurement range ELECTRICAL Battery power 25.9 VDC, 3450 mAh, 90Wh Lithium Ion battery packs (removable) Battery operating time Depends on usage, 3 hr minimum per battery pack Battery charger Output: 29.4 VDC, 1.2 Amp MECHANICAL Dimensions H x D x W 397 x 205 x 240mm 15.6 x 8 x 9.4in Weight ENVIRONMENTAL Temperature range 1-10°C to +45°C +14°F to +113°F Ingress protection IP54. IP67 when enclosed in optional hard case Operational humidity Storage temperature range -10°C to +60°C +14°F to +140°F	Compliance	IEC-62037			
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### Sppm maximum, aging ± 1ppm maximum after first year ### Power accuracy (per tone) ### 5ppm maximum, aging ± 1ppm maximum after first year ### 10.5dB maximum ### See model table ### Receive band (100kHz steps) ### See model table ### A-128dBm ### Measurement range ### 1-108dBm ### Sppm maximum, aging ± 1ppm maximum after first year ### 12.5dBm maximum after first year ### See model table ### A-128dBm ### See model t	Transmit frequencies	See model table			
### Power accuracy (per tone) #### 10.5dB maximum ##################################	Frequency increment	100kHz			
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Battery charger	Battery power	25.9 VDC, 3450 mAh, 90Wh Lithium Ion battery packs (removable)			
MECHANICAL Dimensions H x D x W Weight 19kg 42lbs ENVIRONMENTAL Temperature range -10°C to +45°C +14°F to +113°F Ingress protection IP54. IP67 when enclosed in optional hard case Operational humidity Storage temperature range -10°C to +60°C +14°F to +140°F	Battery operating time	Depends on usage, 3 hr minimum per battery pack			
Dimensions H x D x W 397 x 205 x 240mm 15.6 x 8 x 9.4in 19kg 42lbs ENVIRONMENTAL Temperature range -10°C to +45°C +14°F to +113°F Ingress protection IP54. IP67 when enclosed in optional hard case Operational humidity 5% to 95% RH non-condensing Storage temperature range -10°C to +60°C +14°F to +140°F	Battery charger	Output: 29.4 VDC, 1.2 Amp			
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ENVIRONMENTAL Temperature range -10°C to +45°C +14°F to +113°F Ingress protection IP54. IP67 when enclosed in optional hard case Operational humidity 5% to 95% RH non-condensing Storage temperature range -10°C to +60°C +14°F to +140°F	Dimensions H x D x W	397 x 205 x 240mm 15.6 x 8 x 9.4in			
Temperature range -10°C to +45°C +14°F to +113°F Ingress protection IP54. IP67 when enclosed in optional hard case Operational humidity 5% to 95% RH non-condensing Storage temperature range -10°C to +60°C +14°F to +140°F	Weight	19kg 42lbs			
Ingress protection IP54. IP67 when enclosed in optional hard case Operational humidity 5% to 95% RH non-condensing -10°C to +60°C +14°F to +140°F	ENVIRONMENTAL				
Operational humidity 5% to 95% RH non-condensing -10°C to +60°C +14°F to +140°F	Temperature range	-10°C to +45°C +14°F to +113°F			
Storage temperature range -10°C to +60°C +14°F to +140°F	Ingress protection	IP54. IP67 when enclosed in optional hard case			
	Operational humidity	5% to 95% RH non-condensing			
Mechanical shock 40G shock rating	Storage temperature range	-10°C to +60°C +14°F to +140°F			
TOO SHOOK TAKING	Mechanical shock	40G shock rating			

ORDERING INFORMATION

MODELS					
	DESCRIPTION	TX1 RANGE	TX2 RANGE	RX RANGE (PIM)	
iXA-0707A	700MHz LOW/HIGH	728-740MHz	741-764MHz	692-716MHz 776-800MHz	
Notes	Specifications subject to change without notice.				
1.	Dual Battery charger for standalone charging sold separately.				
2.	Tablet to control the iXA is not included. System requirements - Kaelus Unify and IPA Software				
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 obtain permission in advance from any licensed operators that might be affected by these tests. Furthermore, radiating high RF power can pose a personnel risk.				

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WHAT'S IN THE BOX?			
PART NUMBER	DESCRIPTION	QUANTITY	
R29-4382	AC adaptor for iPA / iXA	1	
ASSY108321	High capacity battery	1	
ACCESSORIES			
PART NUMBER	DESCRIPTION	NOTES	
ACE-1000A	PIM Instrument self-calibration tool	Highly recommended accessory	
ASSY108321	High capacity battery		
PIL-0005A	Low Passive Intermodulation (PIM) Load		
CIS-0001A	Passive Intermodulation (PIM) Source	Required for RTF calibration	
R92-0443	Battery Cradle		
R18-0836	Rugged, Low PIM cable assembly, 2.7 meters (8'10"), 7/16 DIN (M) to 7/16 DIN (M)		
ASSY121959	Rugged, Low PIM cable assembly, 2.7 meters (8'10"), 7/16 DIN (M) to 4.3-10 (M)		
BUNDLES			
PART NUMBER	DESCRIPTION	NOTES	
iAK-0150A	iXA Premium Accessory Kit	Ruggedized case to transport iXA Includes Low PIM Load, PIM source, wrenches, cables and adaptors Heavy! 33kg 72.7lbs	
iAK-0160A	iXA Accessory Kit light	Ruggedized case only to transport iXA Lighter weight for travel: 25kg 55lbs	
iAK-0140A	iXA Softcase Accessory Kit	Bagpack to carry the accessories Includes Low PIM Load, PIM source, wrenches, cables and adaptors	