

IXA Innovative Spectrum & Signal Analyzer

IXA is the field portable solution for validating all aspects of 3G/4G/5G cell site deployment, maintenance, and management

Hand Held Spectrum Analyzer based on Cloud Server

IXA is Hand-Held 5G NR enabled Spectrum analyzer based on Cloud Server, which supports autonomous measurement. This solution offers an opportunity to reduce OPEX and CAPEX across the whole network lifecycle, from initial deployment to maintenance and upgrades, by saving up front on equipment cost and staffing expense.

Use IXA to

- Autonomic measurement without human error
- Measurement of spurious waves in the field
- eNB or Repeater Maintenance Service
- Instant measurement and analysis, DB datafication

Benefits

- **Easy of movement and measurement through wireless connection with tablet PC**
- **High efficiency by using autonomous measurement without human error**
- **Cloud Client**
 - Economic and low operating cost
 - Light Weight & Hand-Held
 - Spectrum Analysis (5G NR, LTE, WCDMA)
 - Signal Analysis (5G NR, LTE, WCDMA)
 - Spurious wave Measurement
 - Coverage Scan function
 - Support google map
 - Rechargeable battery operated
 - Search eNB using QR Code
 - Autonomous Measurement Function
- **Cloud Server**
 - Upgrade Management
 - The Statistic Function
 - Set Autonomous Scenario
 - Autonomous Measurement Records
 - Predicting spurious point on the server and sharing this point between members.
 - User management
 - Measured Data Analysis

IXA System Configuration



Features

Pre-Configured SA			<ul style="list-style-type: none"> - Channel Power - OBW(Occupied Band-Width) - ACLR(Adjacent Channel Leakage Ratio) - SEM(Spectrum Emission Mask) - SE(Spurious Emission) - Harmonic Distortion
LTE	Duplex	FDD and TDD	
	Channel BW	1.4/3/5/10/15/20 MHz	
	Measurement Item	Cell Info	<ul style="list-style-type: none"> ▪ PCI, Group ID, Sector ID
		Power Info	<ul style="list-style-type: none"> ▪ RSTP/RSRP, RSRQ, ▪ OFDM Symbol Power
WCDMA	Measurement Item	Signal Quality	<ul style="list-style-type: none"> ▪ Frequency Offset, ▪ EVM per Channel, ▪ Power per Channel, ▪ #RB per Channel, ▪ Time Alignment Error, ▪ Index of Antenna Path
		Duplex	FDD
	Measurement Item	Code Domain	<ul style="list-style-type: none"> ▪ Total Power/Total Active Power ▪ CPICH/PSCH/SSCH Power ▪ Max/Avg Active/In-active Power
		Modulation Accuracy	<ul style="list-style-type: none"> ▪ Rho, EVM (RMS/Peak) ▪ Peak CDE/Peak Active CDE ▪ Frequency Offset/ IQ Origin Offset
5G NR	Duplex	TDD	
	Channel BW	5/10/15/20/25/30/40/50/60/70/80/90/100 MHz	
	Subcarrier spacing	15/30/60 kHz	
	Measurement Item	Cell Info	<ul style="list-style-type: none"> ▪ PCI, Group ID, Sector ID ▪ GSCN ▪ SSB-SCS
		Power Info	<ul style="list-style-type: none"> ▪ RSTP/RSRP, RSRQ ▪ OFDM Symbol Power
Signal Quality		<ul style="list-style-type: none"> ▪ Frequency Offset ▪ Time Offset ▪ EVM per Channel ▪ Modulation Order ▪ #RB per Channel 	

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Specification

Spec item	Specification
Freq. Accuracy	±0.05ppm + Aging (1ppm/year)
Freq. Range	300kHz ~ 7.5GHz
Power Accuracy	1 MHz to 7.5 GHz : ≤ ±1.3dB (±0.5dB typical) 100kHz RBW, +20°C to +30°C
Ref. Level Range	-200 ~ + 100dBm
Freq. Span(MIN~MAX)	0Hz (Zero Span), 10Hz ~ 7.5GHz
RBW/VBW	RBW : 1Hz ~ 10MHz / VBW : 1Hz ~ 10MHz (1-3-10 sequence)
Detect type	Peak & Negative, Peak, sample, Negative, RMS
Marker	Number of Marker : 6 (Normal/Delta/fix/Off)
Max Input level	Average continuous power : +20 dBm
Input Attenuator(MIN~MAX)	0 ~ 60dB
Harmonic distortion	10MHz ~ 700MHz : <-40dBc (Typ.), 700MHz ~ 7.5GHz : <-70dBc (Typ.)
Third Order Intercept(TOI)	100MHz ~ 3GHz : +10dBm (Typ.), 3 GHz ~ 7.5 GHz : +12 dBm (Typ.)
Preamp Gain(MAX)	15dB
Preamp Reverse Filter	Built-in 34 dB LNA and Uplink Bandpass Filters
10MHz Ref. Clock	Internal, External, GPS
Time Gate Trigger Source	Internal, NR SSB, External 1PPS, GPS
Trace	Number of Trace : 5 (Clear Write/Average/Min Hold/Max Hold)
Wired/Wireless Communication Speed	40 /25Mbps
Temperature Range (Operating)	Battery Discharging : -10 ~ +50°C, Battery Charging : 0 ~ +40°C
Temperature Range (Storage)	-20°C ~ +80°C



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