**GSP-9330** 







# **TESTS MUST BE FAST!**

GSP-9330, a high test speed spectrum analyzer with 3.25 GHz, provides the fastest 204 µs sweep speed. Users, via high speed sweep time, can easily handle and analyze modulation signals. The keys to handling modulated signals are fast sweep time and signal demodulation functions. In addition to the analog AM/FM demodulation and analysis function, GSP-9330 also provides digital signal ASK/FSK, and 2FSK demodulation and analysis capabilities. Nowadays, EMC issues are very crucial to product's design processes. Therefore, GSP-9330 has incorporated the EMC pretest solution to facilitate EMC tests. The simple and easy EMC pretest procedures from GSP-9330 can tremendously shorten users' product launch timebline.

Fastest Sweep Speed Up to 204  $\mu s$ 

For measuring signals, speed is one of the specifications to be considered. Perhaps, it is the most important specification. GSP-9330 provides sweep speed up to 204  $\mu$ s. Users, via high speed sweep time, can easily capture transient signals such as frequency/amplitude modulation signals, Blue tooth frequency hopping signals, tuned oscillator or other interfering signals under ISM Band.

Modulation Signal Analysis and Processing

The keys to handling modulated signals are fast sweep time and signal demodulation function. In addition to the analog AM/FM demodulation and analysis function, GSP-9330 also provides ASK/FSK digital signal demodulation capability. For the widely-utilized, low-cost and low power consumption 2FSK modulation signals, GSP-9330 also provides the complete test and analysis function to address the requirements.



**EMC Pretest Solution** 

GSP-9330 can meet customers' EMC pretest requirements on the product development and verification stages. Users can detect and resolve problems at the early product development stage that can save time and money for product development and verification fee. As a result, users can expedite the process of products launch. GSP-9330 has the built-in EMI dedicated 200/9k/120k/1MHz filter, 20 dB low noise amplifier and Quasi-Peak/Average detection mode to conduct radiation and conduction tests after collocating with the probe set. GKT-008, the radiation test probe set, provides a complete near field test probe set to simplify the complex measurement procedures and to simulate 3m/10m far field tests from the labs. Using GKT-008 can greatly save

engineers' debugging time and the money for going back and forth to the labs. GKT-008 can collocate with the Tracking Generator function of GSP-9330 to conduct EMS pretests. For conduction tests, GKT-008 can collocate with LISN and Isolated Transformer to conduct electromagnetic conduction tests. If users concern EUT's large voltage variation or complexity, applying a Transient

Limiter will make test equipment safer.





#### MAIN FEATURES

- Frequency Range: 9 kHz ~ 3.25 GHz
- Fastest sweep speed up to 204 μs
- Support modulation signal analysis
  - · 2FSK digital signal analysis
  - · ASK/FSK digital signals demodulation and analysis
  - AM/FM analog signals demodulation and analysis
- Complete EMC pretest solution
  - EMI Detect mode: Quasi-Peak, Average
  - EMI Filter(-6dB): 200 Hz, 9 kHz, 120 kHz, 1MHz
  - · Dedicated EMC function key

# APPLICABLE TO TESTS AND ANALYSIS FOR VARIOUS **SIGNALS**

- Signal channel analysis provides Channel Power, OCBW, ACPR, N-dB bandwidth, SEM
- CATV parameter tests focus on CNR, CSO, and CTB parameters
- Signal source's stability characteristics can be tested via Phase Noise and Phase litter
- Component's or system's linearity test can be confirmed by TOI and P1dB functions
- Other measurement applications include Harmonic, Frequency Counter, Time Domain Power, and Gated Sweep

#### **GRAPHIC PROCESSING OF SIGNAL MONITOR**

- Spectrogram traces changes of frequency and power vs.
- Topographic uses color shade to show the probability distribution of signal appearance
- Split-Window allows independent observation and settings for spectrum with different frequency bandwidths

#### FEATURES FOR PRODUCTION LINE APPLICATIONS

- Frequency stability of 0.025 ppm allows GSP-9330 to be stable quickly after powered up
- Users can set up automatic wake-up time to save time from manually setting
- The sequence function exempts users from writing programs
- The limit line function determines whether the tested signal passes the test

## **USER FRIENDLY DESIGN**

- Built-in Definition Help
- Status Icons
- Support five languages (English, Simplified Chinese, Traditional Chinese, Japanese, and Russian)
- Speed save function

# **VARIOUS INTERFACE**

- Support USB Host, RS-232, LXI C (LAN Base), GPIB (option)
- Support USB Device, MicroSD to save files
- Ideal for TV Output's DVI interface

#### SOFTWARE AND DRIVER

- SpectrumShot PC Software EMC/Remote Control Mode
- IVI Driver (It needs NI VISA)
- Android App GSP-9330 Remote Control

#### VARIOUS AUGMENTING OPTIONS

- Tracking Generator analyzes scalar network analysis and P1dB point measurements
- Battery module and dedicated carrying case are ideal for Open Site operations
- GKT-008 near field probe set conducts EMI Pretest GLN-5040A/GIT-5060 conducts EMI Conduction tests

### **RELATED PRODUCTS INFORMATION:**

**GKT-008** Near Field Probe

GLA-5040A LISN



GIT-5060 Isolation Transformer

**GPL-5010 Transient Limiter** 









#### **CUSTOMERS**

- Consumer Electronics
- Service and Maintenance
- Universities, Graduate Schools
- Military Industries
- Automotive Electronics
- Telecom and communications Industries
- Distributors for RF-Instruments Instrument leasing Companies

## **APPLICATIONS**

- For the Quick Check and Analysis of Spectral Characteristic
- EMI Pre-compliance Testing
- Analyze ASK, FSK, AM, FM Signal Characteristics
- Monitor Satellite Uplink Signals From Satellite Uplink Truck
- Test Systems That Require a Very Compact Instrument
- Measure the Frequency Response of Cable, Attenuator, Filter and Amplifier

SPECIFICATIONS FREQUENCY		
FREQUENCY		
Range Resolution	9 kHz ~ 3.25 GHz	
FREQUENCY REFERENCE	1 Hz	
Accuracy	±(period since last adjustment x aging rate) + stability over	
Aging Rate	temperature + supply voltage stability ± 1 ppm max.	1 K
Frequency Stability Over Temperature	± 0.025 ppm	1 year after last adjustment 0 ~ 50 °C
Supply Voltage Stability	± 0.02 ppm	
FREQUENCY READOUT ACCURACY		
Start, Stop, Center, Marker	±(marker frequency indication x frequency reference accuracy + 10% x RBW + frequency resolution)	
Trace Points	Max. 601 points, Min. 6 points	
MARKER FREQUENCY COUNTER		
Resolution Accuracy	1 Hz, 10 Hz, 100 Hz, 1 kHz ±(marker frequency indication X frequency reference accuracy	RBW/Span >=0.02 ; Mkr level to DNL>30 dB
<u> </u>	+ counter resolution)	Nowyopan's old jimm level to bit 2 so do
FREQUENCY SPAN Range	011 ( ) 20011 225 CH	
Resolution	0 Hz (zero span), 100 Hz ~ 3.25 GHz 1 Hz	
Accuracy	± frequency resolution	RBW : Auto
PHASE NOISE		
Offset from Carrier 10 kHz	< -88 dBc/Hz	Fc=1GHz;RBW=1kHz,VBW=10Hz;Average≥40 Typical
100 kHz 1 MHz	< -95 dBc/Hz < -113 dBc/Hz	Typical Typical
RESOLUTION BANDWIDTH (RBW) F	,	тургсан
Filter Bandwidth	1 Hz ~ 1 MHz in 1-3-10 sequence	-3dB bandwidth
Accuracy	200 Hz, 9 kHz, 120 kHz, 1MHz	-6dB bandwidth
Shape Factor	± 8%, RBW = 1MHz ; ± 5%, RBW < 1MHz <4.5 : 1	Nominal Normal Bandwidth ratio: -60dB:-3dB
VIDEO BANDWIDTH (VBW) FILTER		
Filter Bandwidth	1 Hz ~ 1 MHz in 1-3-10 sequence	-3dB bandwidth
AMPLITUDE		
AMPLITUDE RANGE		
Measurement Range	100 kHz ~ 1 MHz 1 MHz ~ 10 MHz	Displayed Average Noise Level (DANL) to 18 dBm DANL to 21 dBm
	10 MHz ~ 3.25 GHz	DANL to 30 dBm
ATTENUATOR		
Input Attenuator Range	0 ~ 50 dB, in 1 dB steps	Auto or manual setup
MAXIMUM SAFE INPUT LEVEL Average Total Power	≤+33 dBm	Input attenuator ≥10 dB
DC Voltage	± 50 V	mput attenuator = 10 db
1 dB GAIN COMPRESSION		
Total Power at 1st Mixer	> 0 dBm	Typical; Fc≥ 50 MHz; preamp. off
Total Power at the Preamp	> -22 dBm	Typical ; Fc≥50 MHz; preamp. on Mixer power level (dBm) = input power (dBm) – attenuat
DISPLAYED AVERAGE NOISE LEVEL	(DANL)	, , , , , , , , , , , , , , , , , , , ,
Preamp off	0 dB attenuation; RF Input is terminated with a $50\Omega$ load. RBW	/ 10 Hz; VBW 10 Hz; span 500 Hz; reference level = - 60 dBr
	trace average≥40	
9 kHz~100 kHz 100 kHz~1 MHz	<-93 dBm <-90 dBm - 3 x (f/100 kHz) dB	Nominal
1 MHz~10 MHz	<-122 dBm	Nominal Nominal
2.7 ~ 3.25 GHz	< -116 dBm	Nominal
Preamp on	0 dB attenuation; RF Input is terminated with a 50 $\Omega$ load. RBW	/ 10 Hz; VBW 10 Hz; span 500 Hz; reference level = - 60 dBr
100 kHz~1 MHz	trace average≥ 40 < -108 dBm - 3 x (f/100 kHz) dB	Nominal
1 MHz~10 MHz		Nominal
10 MHz~3.25 GHz	< -142 dBm	Nomina
	<-142 dBm <-142 dBm + 3 x (f/1 GHz) dB	Nominal
LEVEL DISPLAY RANGE	<-142 dBm + 3 x (f/1 GHz) dB	
LEVEL DISPLAY RANGE Scales Units	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W	
Scales	< -142 dBm + 3 x (f/1 GHz) dB  Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB	Nominal  Log scale
Scales Units	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W	Nominal
Scales Units Marker Level Readout Level Display Modes Number of Traces	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4	Nominal  Log scale Linear scale Single/Split Windows
Scales Units Marker Level Readout Level Display Modes	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear & Write,Max/Min Hold,	Nominal  Log scale Linear scale Single/Split Windows
Scales Units Marker Level Readout Level Display Modes Number of Traces Detector Trace Functions	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video),	Nominal  Log scale Linear scale Single/Split Windows
Scales Units Marker Level Readout Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY	<-142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average (EMI),Clear & Write,Max/Min Hold, View, Blank, Average	Nominal  Log scale Linear scale Single/Split Windows
Scales Units Marker Level Readout Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear & Write,Max/Min Hold,	Nominal  Log scale Linear scale Single/Split Windows
Scales Units Marker Level Readout Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear & Write,Max/Min Hold, View, Blank, Average Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referen
Scales Units Marker Level Readout  Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS (not Video), Quasi-Peak (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referent Ref level 0 dBm; 10 dB RF attenuation
Scales Units Marker Level Readout  Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 dS 0.01 dS 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear & Write,Max/Min Hold, View, Blank, Average Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referent Ref level 0 dBm; 10 dB RF attenuation
Scales Units Marker Level Readout  Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS (not Video), Quasi-Peak (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referent Ref level 0 dBm; 10 dB RF attenuation
Scales Units Marker Level Readout Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear & Write,Max/Min Hold, View, Blank, Average Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referent Ref level 0 dBm; 10 dB RF attenuation
Scales Units Marker Level Readout Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On  1 MHz ~ 2 GHz 2 GHz ~ 3.25 GHz ATTENUATION SWITCHING UNCER	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear & Write,Max/Min Hold, View, Blank, Average Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.6 dB ± 0.8 dB ± 0.8 dB ± 0.8 dB	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referent Ref level 0 dBm; 10 dB RF attenuation
Scales Units Marker Level Readout  Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On 1 MHz ~ 2 GHz 2 GHz ~ 3.25 GHz ATTENUATION SWITCHING UNCER Attenuator Setting	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear & Write,Max/Min Hold, View, Blank, Average Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB TXINITY 0 ~ 50 dB in 1 dB step	Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referent Ref level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; -30 dB RF attenuation
Scales Units Marker Level Readout Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On  1 MHz ~ 2 GHz 2 GHz ~ 3.25 GHz ATTENUATION SWITCHING UNCER	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear & Write,Max/Min Hold, View, Blank, Average Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB TAINTY 0 ~ 50 dB in 1 dB step ± 0.25 dB	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referent Ref level 0 dBm; 10 dB RF attenuation
Scales Units Marker Level Readout  Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On 1 MHz ~ 2 GHz 2 GHz ~ 3.25 GHz ATTENUATION SWITCHING UNCER: Attenuator Setting Uncertainty RBW FILTER SWITCHING UNCERTAI 1 Hz ~ 1 MHz	<pre> &lt;-142 dBm + 3 x (f/1 GHz) dB  Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear &amp; Write,Max/Min Hold, View, Blank, Average  Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB  Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB  TAINTY  0 ~ 50 dB in 1 dB step ± 0.25 dB  NTY  ± 0.25 dB  NTY  ± 0.25 dB </pre>	Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referent Ref level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; -30 dB RF attenuation
Scales Units Marker Level Readout  Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On  FREQUENCY RESPONSE Preamp On  100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On  1 MHz ~ 2 GHz 2 GHz ~ 3.25 GHz ATTENUATION SWITCHING UNCER Attenuator Setting Uncertainty  RBW FILTER SWITCHING UNCERTAI	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS (not Video), Quasi-Peak (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB TAINTY 0 ~ 50 dB in 1 dB step ± 0.25 dB NTY ± 0.25 dB TY	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Reference Ref level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; -30 dB RF attenuation Reference: 160 MHz, 10dB attenuation  Reference: 10 kHz RBW
Scales Units Marker Level Readout  Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On 1 MHz ~ 2 GHz 2 GHz ~ 3.25 GHz ATTENUATION SWITCHING UNCER: Attenuator Setting Uncertainty RBW FILTER SWITCHING UNCERTAI 1 Hz ~ 1 MHz	<pre> &lt;-142 dBm + 3 x (f/1 GHz) dB  Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear &amp; Write,Max/Min Hold, View, Blank, Average  Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB  Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB  TAINTY  0 ~ 50 dB in 1 dB step ± 0.25 dB  NTY  ± 0.25 dB  NTY  ± 0.25 dB </pre>	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Reference Ref level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; -30 dB RF attenuation  Reference: 160 MHz, 10dB attenuation  Reference: 10 kHz RBW  20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ -50 dBm;
Scales Units Marker Level Readout  Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On 1 MHz ~ 2 GHz 2 GHz ~ 3.25 GHz ATTENUATION SWITCHING UNCER: Attenuator Setting Uncertainty RBW FILTER SWITCHING UNCERTAI 1 Hz ~ 1 MHz	<pre>&lt; -142 dBm + 3 x (f/1 GHz) dB  Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear &amp; Write,Max/Min Hold, View, Blank, Average  Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB  Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB  TAINTY  0 ~ 50 dB in 1 dB step ± 0.25 dB  NTY  ± 0.25 dB  TY  ± 1.5 dB</pre>	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referer Ref level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; -30 dB RF attenuation  Reference : 160 MHz, 10dB attenuation  Reference : 10 kHz RBW  20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW 1 kHz; VBW 1 kHz; after cal; Preamp Off
Scales Units Marker Level Readout Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On 1 MHz ~ 2 GHz 2 GHz ~ 3.25 GHz ATTENUATION SWITCHING UNCER: Attenuator Setting Uncertainty RBW FILTER SWITCHING UNCERTAI 1 Hz ~ 1 MHz LEVEL MEASUREMENT UNCERTAIN: Overall Amplitude Accuracy	< -142 dBm + 3 x (f/1 GHz) dB Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS (not Video), Quasi-Peak (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB TAINTY 0 ~ 50 dB in 1 dB step ± 0.25 dB NTY ± 0.25 dB TY	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Reference Ref level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; -30 dB RF attenuation  Reference: 160 MHz, 10dB attenuation  Reference: 10 kHz RBW  20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB;
Scales Units Marker Level Readout  Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On 1 MHz ~ 2 GHz 2 GHz ~ 3.25 GHz ATTENUATION SWITCHING UNCER Attenuator Setting Uncertainty RBW FILTER SWITCHING UNCERTAI 1 Hz ~ 1 MHz LEVEL MEASUREMENT UNCERTAIN	<pre>&lt; -142 dBm + 3 x (f/1 GHz) dB  Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear &amp; Write,Max/Min Hold, View, Blank, Average  Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB  Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB  TAINTY  0 ~ 50 dB in 1 dB step ± 0.25 dB  NTY  ± 0.25 dB  TY  ± 1.5 dB</pre>	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referer Ref level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; -30 dB RF attenuation  Reference: 160 MHz, 10dB attenuation  Reference: 10 kHz RBW  20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW 1 kHz; VBW 1 kHz; after cal; Preamp Off Typical
Scales Units Marker Level Readout Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On 1 MHz ~ 2 CHz 2 GHz ~ 3.05 GHz ATTENUATION SWITCHING UNCER Attenuator Setting Uncertainty RBW FILTER SWITCHING UNCERTAI 1 Hz ~ 1 MHz LEVEL MEASUREMENT UNCERTAINT Overall Amplitude Accuracy	<pre>&lt; -142 dBm + 3 x (f/1 GHz) dB  Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear &amp; Write,Max/Min Hold, View, Blank, Average  Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB  Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB  TAINTY 0 ~ 50 dB in 1 dB step ± 0.25 dB  NTY  ± 0.25 dB  TY  ± 1.5 dB ± 0.5 dB ± 0.5 dB</pre>	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referer Ref level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; -30 dB RF attenuation  Reference: 160 MHz, 10dB attenuation  Reference: 10 kHz RBW  20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW 1 kHz; VBW 1 kHz; after cal; Preamp Off Typical  Preamp off; signal input -30dBm; 0 dB attenuation Typical; 10 MHz < fc < 775 MHz
Scales Units Marker Level Readout Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On 1 MHz ~ 2 CHz 2 GHz ~ 3.05 GHz ATTENUATION SWITCHING UNCER Attenuator Setting Uncertainty RBW FILTER SWITCHING UNCERTAI 1 Hz ~ 1 MHz LEVEL MEASUREMENT UNCERTAINT Overall Amplitude Accuracy	<pre>&lt; -142 dBm + 3 x (f/1 GHz) dB  Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear &amp; Write,Max/Min Hold, View, Blank, Average  Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB  Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB TAINTY  0 ~ 50 dB in 1 dB step ± 0.25 dB  NTY ± 0.25 dB  TY ± 1.5 dB ± 0.5 dB ± 0.5 dB</pre>	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referer Ref level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; -30 dB RF attenuation  Reference: 160 MHz, 10dB attenuation  Reference: 10 kHz RBW  20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW 1 kHz; VBW 1 kHz; after cal; Preamp Off Typical  Preamp off; signal input -30dBm; 0 dB attenuation Typical; 10 MHz < fc < 775 MHz Typical; 775 MHz ≤ fc < 1.625 GHz Preamp off; signal input -30dBm; 0 dB attenuation
Scales Units Marker Level Readout Level Display Modes Number of Traces Detector Trace Functions  ABSOLUTE AMPLITUDE ACCURACY Absolute Point Preamp Off Preamp On FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3.25 GHz Preamp On 1 MHz ~ 2 GHz 2 GHz ~ 3.25 GHz RTENUATION SWITCHING UNCER Attenuator Setting Uncertainty RBW FILTER SWITCHING UNCERTAI 1 Hz ~ 1 MHz LEVEL MEASUREMENT UNCERTAIN:  Overall Amplitude Accuracy  SPURIOUS RESPONSE Second Harmonic Intercept	<pre>&lt; -142 dBm + 3 x (f/1 GHz) dB  Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level Trace, Topographic, Spectrogram 4 Positive-peak,negative-peak,sample,normal,RMS(not Video), Quasi-Peak(EMI),Average(EMI),Clear &amp; Write,Max/Min Hold, View, Blank, Average  Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; lo ± 0.3 dB ± 0.4 dB  Attenuation: 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB  TAINTY 0 ~ 50 dB in 1 dB step ± 0.25 dB  NTY  ± 0.25 dB  TY  ± 1.5 dB ± 0.5 dB ± 0.5 dB</pre>	Nominal  Log scale Linear scale Single/Split Windows  g scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Referen Ref level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; -30 dB RF attenuation  Reference : 10 kHz RBW  20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW 1 kHz; VBW 1 kHz; after cal; Preamp Off Typical Preamp off; signal input -30dBm; 0 dB attenuation Typical; 10 MHz < fc < 775 MHz Typical; 775 MHz ≤ fc < 1.625 GHz

SPECIFICATIONS				
SWEEP				
SWEEP TIME				
Range	204 μs ~ 1000 s 50 μs ~ 1000 s	Span > 0 Hz		
Sweep Mode	50 μs ~ 1000 s Continuous; Single	Span = 0 Hz; Min resolution=10μs		
Trigger Source	Free run; Video; External			
Trigger Slope	Positive or negative edge			
RF PREAMPLIFIER				
Frequency Range	1 MHz ~ 3.25 GHz			
Gain	18 dB	Nominal (installed as standard)		
FRONT PANEL INPUT/OUTPU	II .			
RF INPUT	N. San a Consolis			
Connector Type Impedance	N-type female $50\Omega$	Nominal		
VSWR	<1.6:1	300 kHz ~ 3.25 GHz ; Input attenuator ≥10 dB		
POWER FOR OPTION				
Connector Type	SMB male	wed to the second		
Voltage/Current USB HOST	DC +7V/500 mA max	With short-circuit protection		
Connector Type	Aplua			
Protocol	A plug Version 2.0	Support Full/High/Low speed		
MICRO SD SOCKET				
Protocol	SD 1.1			
Support Cards	Micro SD, Micro SDHC	Up to 32GB capacity		
REAR PANEL INPUT/OUTPUT				
REFERENCE OUTPUT				
Connector Type Output Frequency	BNC female 10 MHz	Nominal		
Output Amplitude	3.3V CMOS	Nominal		
Output Impedance	50 Ω			
REFERENCE INPUT				
Connector Type	BNC female			
Input Reference Frequency Input Amplitude	10 MHz -5 dBm ~ +10 dBm			
Frequency Lock Range	Within ± 5 ppm of the input reference frequency			
ALARM OUTPUT				
Connector Type	BNC female	Open-collector		
TRIGGER INPUT/GATED SWEEP IN				
Connector Type Input Amplitude	BNC female 3.3V CMOS			
Switch	Auto selection by function			
LAN TCP/IP INTERFACE				
Connector Type	RJ-45			
Base	10Base-T; 100Base-Tx; Auto-MDIX			
USB DEVICE	P. obos	For a second of the second of LICE TAG		
Connector Type Protocol	B plug Version 2.0	For remote control only; supports USB TMC Supports Full/High/Low speed		
IF OUTPUT		11 7 07		
Connector Type	SMA female			
Impedance	50Ω	Nominal		
IF Frequency Output Level	886 MHz -25 dBm	Nominal 10 dB attenuation; RF input : 0 dBm @ 1 GHz		
EARPHONE OUTPUT				
Connector Type	3.5mm stereo jack, wired for mono operation			
VIDEO OUTPUT				
Connector Type	DVI-I (integrated analog and digital), Single Link. Com	patible with VGA or HDMI standard through adapter		
RS-232C INTERFACE				
Connector Type		Tx, Rx, RTS, CTS		
Connector Type	D-sub 9-pin female	12, 12, 113, 113		
GPIB INTERFACE (OPTIONAL)		18, 18, 18, 18, 18		
GPIB INTERFACE (OPTIONAL) Connector Type	D-sub 9-pin female  IEEE-488 bus connector	18, 183, 113		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT	IEEE-488 bus connector			
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source		Auto range selection		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL)	IEEE-488 bus connector  AC 100 V ~ 240 V, 50/60 Hz	Auto range selection		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL) Battery Pack	IEEE-488 bus connector			
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL)	IEEE-488 bus connector  AC 100 V ~ 240 V, 50/60 Hz  6 cells, Li-Ion rechargeable, 3S2P	Auto range selection		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL) Battery Pack Voltage	IEEE-488 bus connector  AC 100 V ~ 240 V, 50/60 Hz  6 cells, Li-Ion rechargeable, 3S2P DC 10.8 V	Auto range selection		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL) Battery Pack Voltage Capacity GENERAL Internal Data Storage	IEEE-488 bus connector  AC 100 V ~ 240 V, 50/60 Hz  6 cells, Li-Ion rechargeable, 352P DC 10.8 V 5200 mAh/56Wh  16 MB nominal	Auto range selection		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL) Battery Pack Voltage Capacity GENERAL Internal Data Storage Power Consumption	IEEE-488 bus connector  AC 100 V ~ 240 V, 50/60 Hz  6 cells, Li-Ion rechargeable, 3S2P DC 10.8 V 5200 mAh/56Wh  16 MB nominal < 65 W	Auto range selection		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL) Battery Pack Voltage Capacity GENERAL Internal Data Storage	IEEE-488 bus connector  AC 100 V ~ 240 V, 50/60 Hz  6 cells, Li-Ion rechargeable, 352P DC 10.8 V 5200 mAh/56Wh  16 MB nominal	Auto range selection		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL) Battery Pack Voltage Capacity GENERAL Internal Data Storage Power Consumption Warm-up Time Temperature Range	IEEE-488 bus connector  AC 100 V ~ 240 V, 50/60 Hz  6 cells, Li-Ion rechargeable, 3S2P DC 10.8 V 5200 mAh/56Wh  16 MB nominal < 65 W < 30 minutes +5 °C ~ + 45 °C -20 °C ~ + 70 °C	Auto range selection  With UN38.3 Certification  Operating Storage		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL) Battery Pack Voltage Capacity GENERAL Internal Data Storage Power Consumption Warm-up Time	AC 100 V ~ 240 V, 50/60 Hz	Auto range selection  With UN38.3 Certification  Operating		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL) Battery Pack Voltage Capacity GENERAL Internal Data Storage Power Consumption Warm-up Time Temperature Range Dimensions & Weight	AC 100 V ~ 240 V, 50/60 Hz	Auto range selection  With UN38.3 Certification  Operating Storage		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL) Battery Pack Voltage Capacity GENERAL Internal Data Storage Power Consumption Warm-up Time Temperature Range Dimensions & Weight TRACKING GENERATOR (OPT	AC 100 V ~ 240 V, 50/60 Hz	Auto range selection  With UN38.3 Certification  Operating Storage		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL) Battery Pack Voltage Capacity GENERAL Internal Data Storage Power Consumption Warm-up Time Temperature Range Dimensions & Weight TRACKING GENERATOR (OPT Frequency Range Output Power	AC 100 V ~ 240 V, 50/60 Hz	Auto range selection  With UN38.3 Certification  Operating Storage		
GPIB INTERFACE (OPTIONAL) Connector Type AC POWER INPUT Power Source BATTERY PACK (OPTIONAL) Battery Pack Voltage Capacity GENERAL Internal Data Storage Power Consumption Warm-up Time Temperature Range Dimensions & Weight TRACKING GENERATOR (OPT Frequency Range	AC 100 V ~ 240 V, 50/60 Hz	Auto range selection  With UN38.3 Certification  Operating Storage		

Note : The specifications apply when the GSP-9330 is powered on for at least 30 minutes to warm-up to a temperature of 20  $^{\circ}\mathrm{C}$  to 30  $^{\circ}\mathrm{C}$  , unless specified otherwise.

Specifications subject to change without notice. GSP-9330GD1DH

SpectrumShot PC Software for Windows System (available on GW Instek website) IVI Driver Supports LabVIEW/LabWindows/CVI Programming (available on NI website)

Opt.03 GPIB Interface

# **ORDERING INFORMATION**

GSP-9330 3.25 GHz Spectrum Analyzer

EMC Pretest Solution: GKT-008 EMI Near Field Probe Set

GLN-5040A Line Impedance Stabilization Network GIT-5060 Isolation transformer GPL-5010 Transient Limiter

ACCESSORIES:

Power Cord, Certificate of Calibration, CD-ROM (with Quick Start Guide, User Manual, Programming Manual, SpectrumShot Software, SpectrumShot Guide & IVI Driver)

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TEXIO TECHNOLOGY CORPORATION.

Opt.01 Tracking Generator

GSC-009 Soft Carrying Case

GRA-415 Rack Adapter Panel

Opt.02 Battery Pack

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