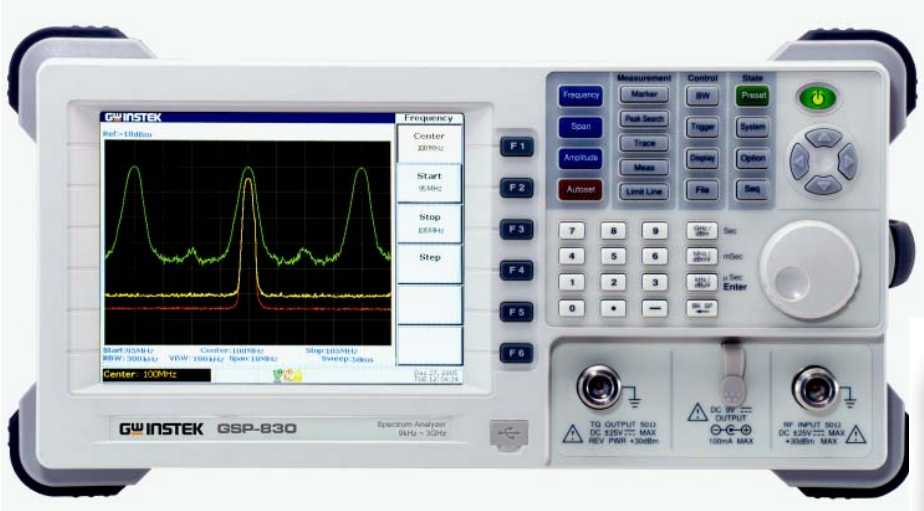
Introduction to GSP-830 3GHz Spectrum Analyzer

GW INSTEK

Made to Measure

固緯電子實業股份有限公司

New 3GHz Spectrum Analyzer



Front View

Rear View

①Frequency Adjustment

②Ref. Input

③Ref. Out

④Ext. Trigger

⑤GPIB

⑥RS232

⑦USB

⑧VGA Output

⑨Ear Phone

⑩DC Input

⑪Battery Pack

⑫AC power switch

⑬AC power socket

Great RF Characteristics

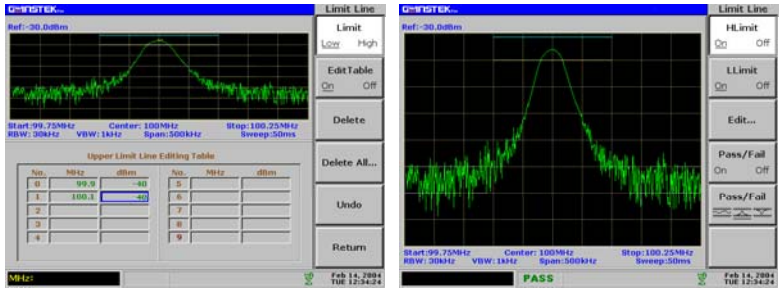
- Very Low Noise floor:-117dBm @1GHz, 3k RBW
- Spurious:-60dBc under Reference Level
- 3rd Intermodulation: -70dBc,
  two tones –40dBm, 2MHz apart
- Amplitude Accuracy :1dB
- Frequency Flatness:1dB
- Display Range Linearity:1dB over 70dB
- RBW:3k, 30k, 300k, 4M (standard), Accuracy:15%
- VBW:10Hz~1MHz in 1-3 steps

Advanced Automation Functions

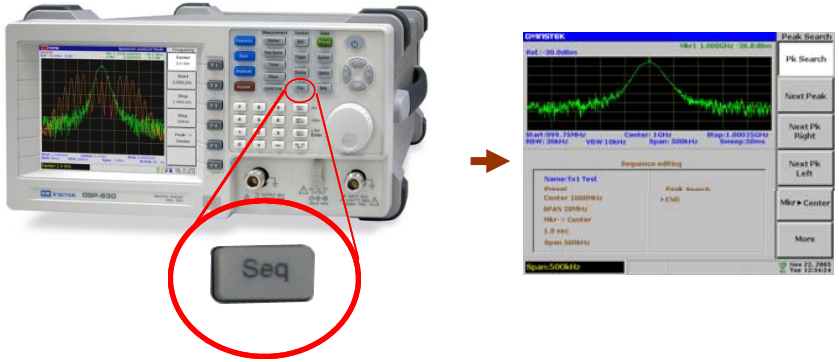
Features

*AutoSet function

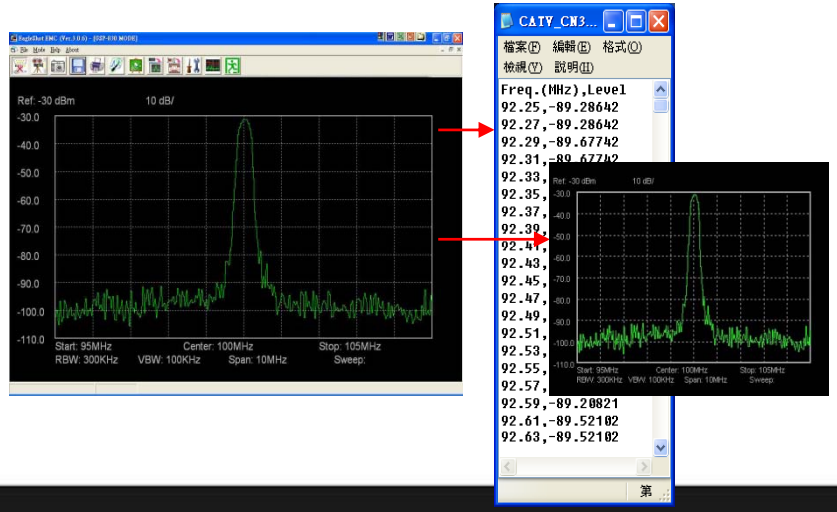
*GO/NG Test



*Sequence programming functions



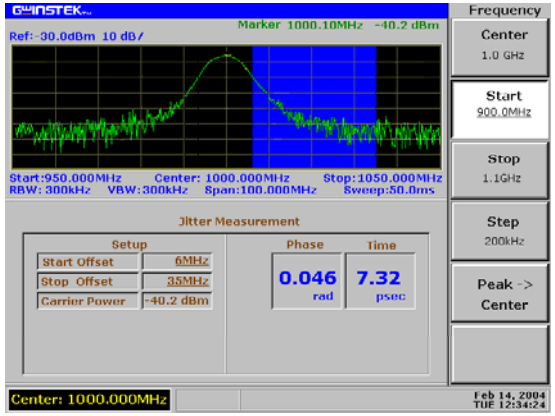
*PC Software, EagleShot



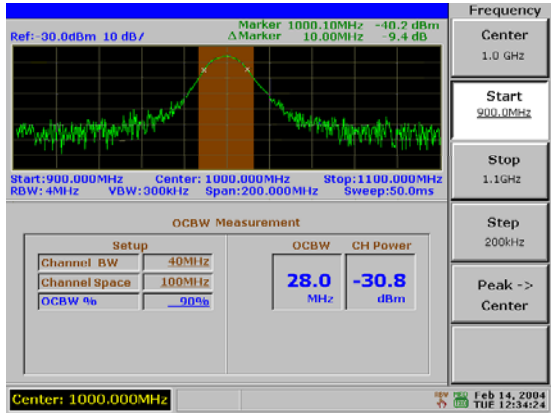
Abundant Measurement Functions

Features

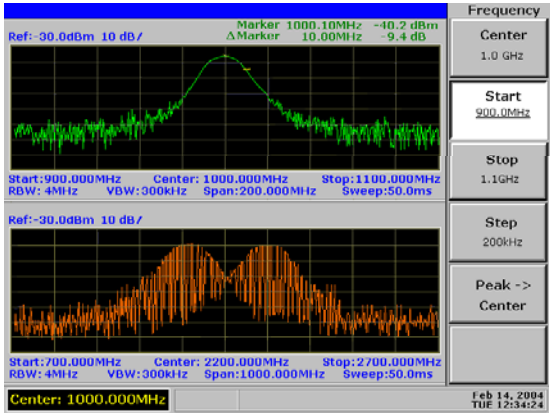
*Jitter Measurement



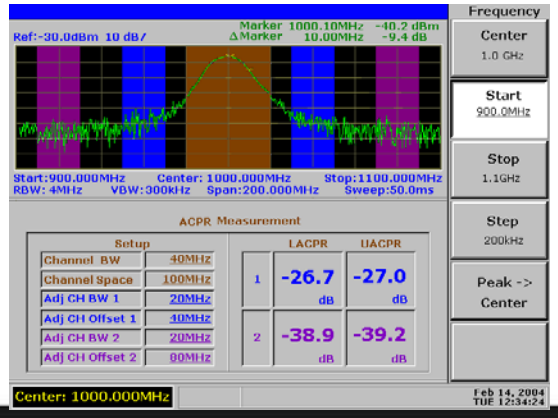
*OCBW



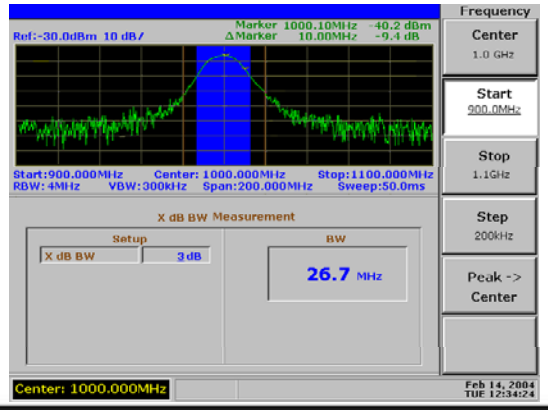
* Split Windows



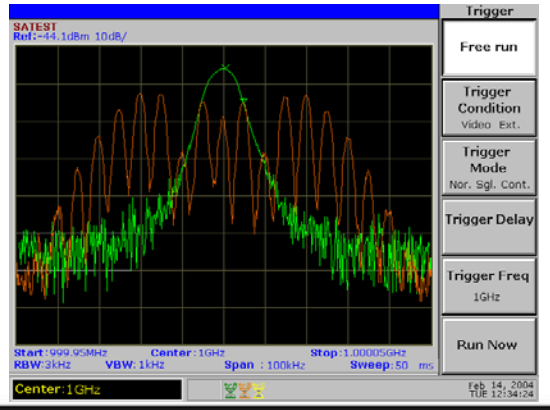
*ACPR



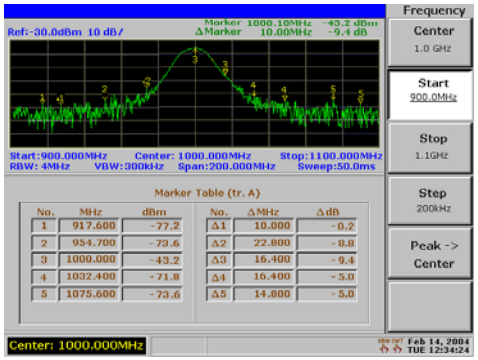
*N-dB Measurement



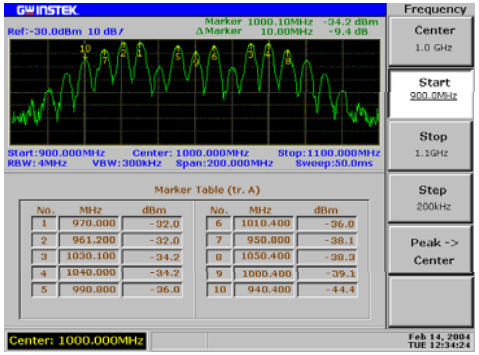
*Trigger



Complete Marker functions



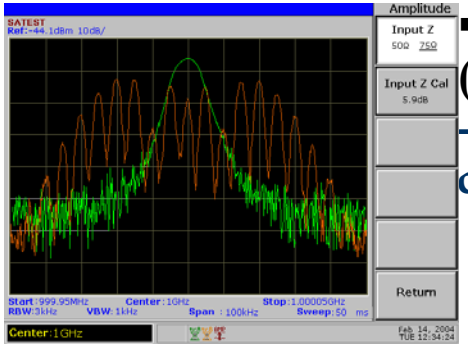
- 10 markers divided into 5 pairs of Marker-ΔMarker
- Peak, next peak, left peak, right peak functions



- Peak track, Peak to Center functions
- Peak table sorted by amplitude or frequency

Amplitude compensation functions

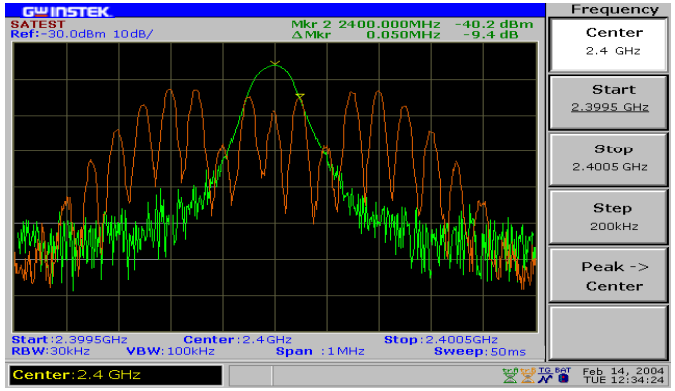
- Correction table
  --Pre-compensate the measurement in Amplitude, 3 tables allowed.
  Ex. Antenna gain compensation



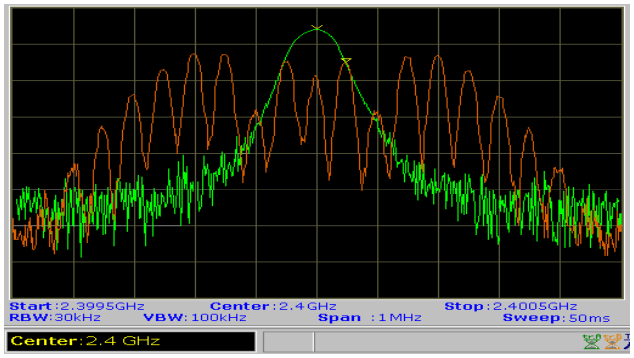
- 50/75 Input impedance (Z) calibration
  --The 50/75 Ω adaptor loss can be counted in.

Friendly User's Interface

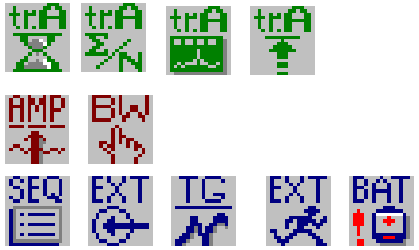
*6.4" TFT color LCD, resolution: 640x480



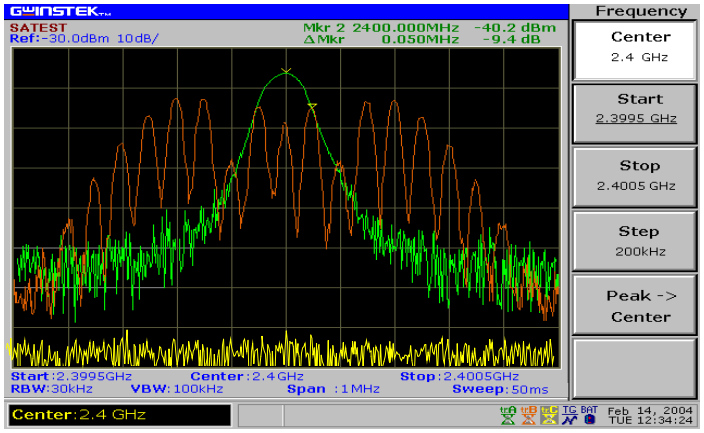
*Separate Entry Data Area



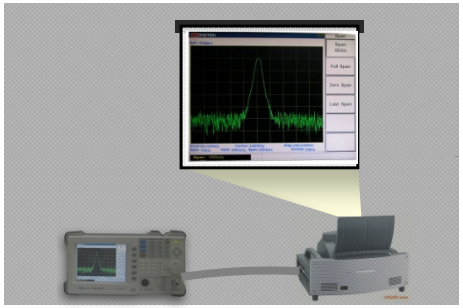
*Icons Indicate of Working status



*3 traces A, B, C



Input / Output connectors

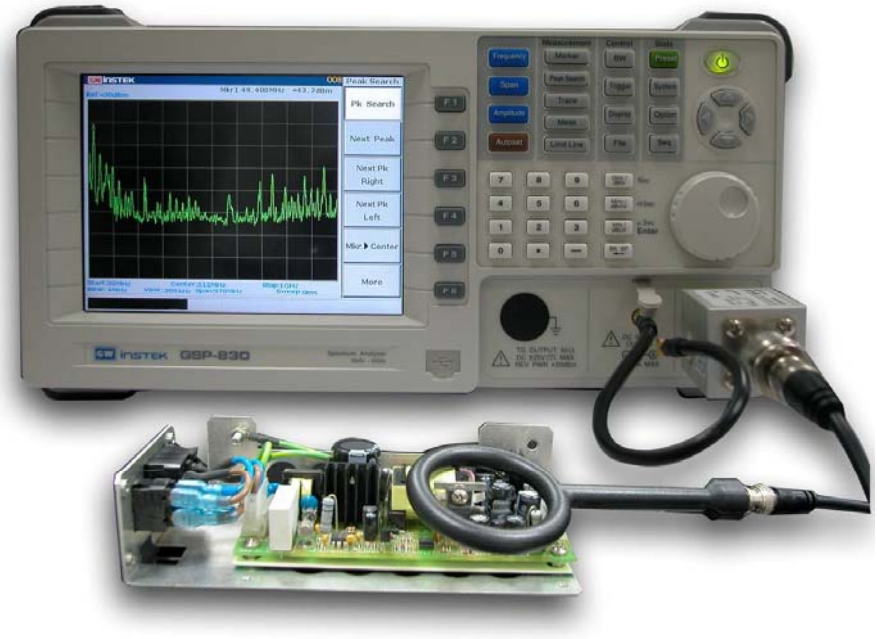


- Direct VGA output
- TG output / RF input (N type connector)
- DC 9V output (for Preamplifier GAP-801)
- USB/RS232/GPIB (optional)
- Reference input(1M, 1.544M, 2.048M, 5M, 10M, 10.24M, 13M, 15.36M, 15.4M, 19.2M)
- Reference output (10MHz)
- External Trigger input
- Frequency adjustment

Portability

- AC/DC/Battery 3-way power operation
- Compact size, 330(W) x170 (H)x340 (D) mm
- Light weight of 5.8kg without options

Options and Accessories



The most efficient EMI debugging & Pretest tool:

GSP-830+ GAP-801 + GKT-006

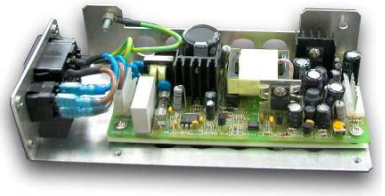
Parameter	Min.	Typical	Max.	Unit
Frequency Rang	0.009	---	6	GHz
Gain	9	11.5	---	dB
P_{1dB}	+13	+14	---	dBm

Applications

SNG Car

Mobile phone

Wireless Speaker

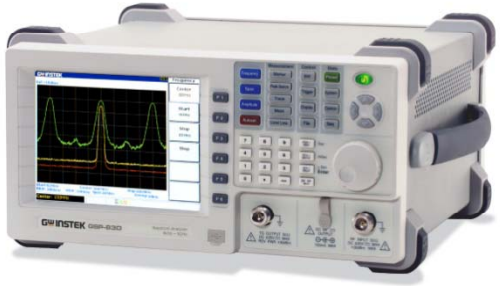


EMI Debug

Remote Control

Antennas

WLAN

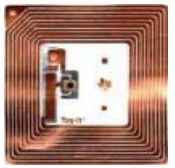


Tuners

GPS Receiver

Bluetooth

Wireless Microphone



RFID

GSP-830 3GHz Spectrum Analyzer

- Possessed of high performance and abundant measurement abilities but offered at an affordable price.

- 3-way power operation, compact size and 5.8kg light weight make this unit suitable in both bench and portable applications.

- Design for RF measurement in th booming wireless era.