

DTV Shoulder Mask Measurement

Full Digital synthesizer mode

6.2GHz Spectrum Analyzer

PSA-6000

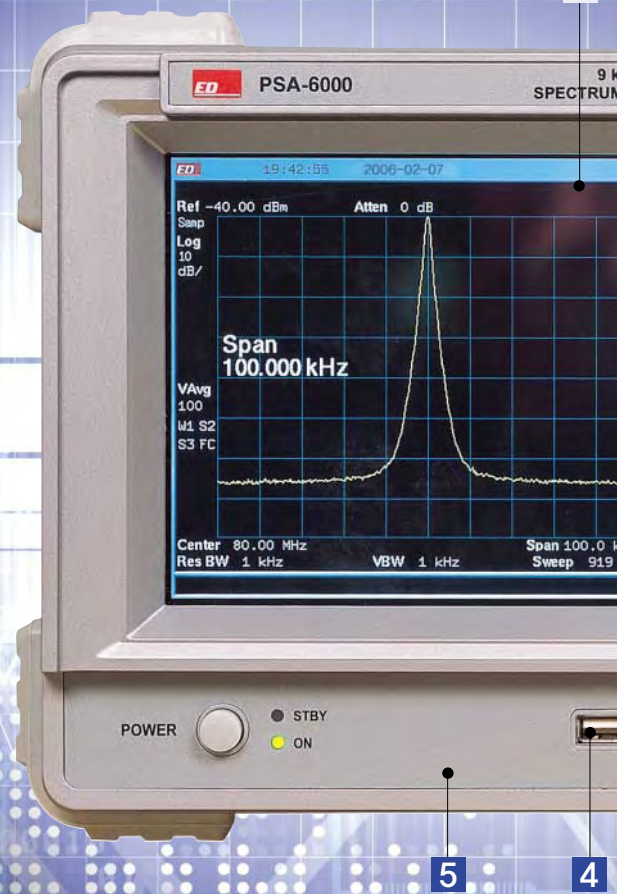
- High performance digital synthesized RF
- Wide range frequency
- Wide input dynamic range
- Digital mobile(CDMA) Measurement
- Large internal memory space
- 6.4" Color TFT LCD Display
- Low Cost and High Performance
- USB Host, LAN and more Interfaces



Full Digital synthesizer mode — PSA-6000, 6.2GHz Spectrum Analyzer of wide frequency and dynamic range

The Model PSA-6000 Spectrum Analyzer is a fully synthesized RF Spectrum Analyzer featuring simple user controls which allow the novice or the seasoned expert to use the PSA-6000 right out of box. The PSA-6000 provides you with a powerful RF test and measurement tool for CDMA and WCDMA RF systems, broadcast RF systems, ISM Band, wireless LAN Applications, EMI/EMC.

The features include 6.4" color display, centronics printer, internal memory, USB host, built in CDMA measurement (ACP, Channel Power and Occupied bandwidth). The PSA-6000 Spectrum Analyzer gives educational institutions, mobile and communication system manufactures and RF product service centers a quality RF test instrument at an unbelievably affordable price.



Features

- High-performance digital synthesizer method
- Wide Frequency Coverage : 9 kHz ~ 6.2 GHz
- Superior Resolution : Minimum 1 Hz
- Compact & Portable size
- Wide Input Dynamic Range : -105 ~ 20 dBm
- Ease-of-Use Key Buttons
- CDMA Measurement : ACPR, ACLR, OCBW, Channel Power
- Various and Convenient Interfaces : USB, LAN
- 0.5 ppm high precision reference

■ Various and convenient interfaces



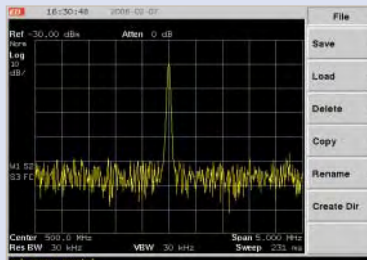
GPIB(Optional), LAN(Optional), RS-232C, Printer, EXT Trigger REF I/O (10 MHz)

■ Remote Control function



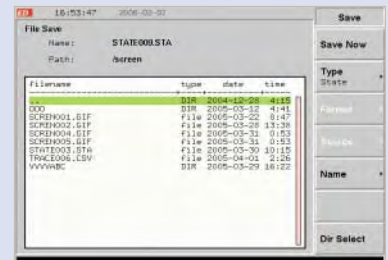
Remote controls the analyzer and manages data thru PC or Internet

■ Auto Set function



Automatically displays and sets maximum signal trace

■ Save / Recall function



Saves and manages measurement trace and its state in the internal memory

PSA 6000

6.2GHz Spectrum Analyzer



1 High definition 640 × 480 color TFT LCD

High definition color TFT LCD enables high precision measurement and natural data display.

2 Simple and easy to use KEY

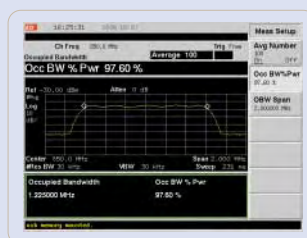
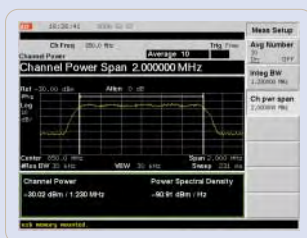
Keys are allocated for user's conveniences so that users can be easily familiar with them. And they provide various functions.

3 CDMA Measurement

· Channel Power (CHP) Measurement :

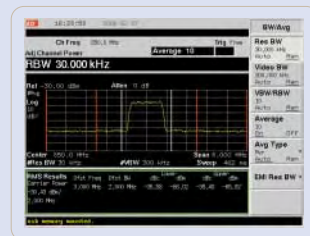
The PSA-6000 model provides power measurement functions for mobile communication and simple menus. Measured values are automatically displayed at the bottom of trace.

· **OBW Measurement** : Measures the Occupied Bandwidth(OBW) of modulation signal in the unit of %.



· ACP Measurement :

Measures the influence of transmitted power on the Adjacent Channel, or the ratio of power to the Adjacent Channel throughout the mobile communication system using multi-channel.



4 USB Interface

- Can store measured data into the USB Memory through its built-in USB Host that supports USB 1.1 and USB 2.0(GIF Format).
- Can convert measured data to MS Excel as it also supports the CSV file format.
- Supports nearly all types of printers such as Centronics printer and USB Interface printer.
- Firmware can be upgraded through USB by clicking on our website, <http://www.ed.co.kr>.

5 Large Internal Memory Space

- Waveform : stores maximum 900 waveforms
- State: stores maximum 3,000 states
- Easily stores/calls waveforms and states of the equipment based on various types of application and usage

6.2GHz Spectrum Analyzer

Full Digital synthesizer mode

Specifications

Frequency	Range	9 kHz to 6.2 GHz		
	Resolution	Minimum 1 Hz		
	Span Range	100 Hz/div to 600 MHz/div		
		1,2,5steps Selection(Automatic), ZERO Span, FULL Span (9 kHz to 6.2 GHz)		
	Frequency Selection	Start, Stop, Center Span Setup		
	Span Accuracy	±3% of the Indicated Span Width		
	Readout Accuracy	≤±(Indicated frequency × reference frequency accuracy + span × span accuracy + 50% of RBW)		
	Phase Noise	≤ -90 dBc/Hz @10 kHz offset		
Amplitude	Range	+ 20 dBm ~ -105 dBm		
	Average Noise Level (1 kHz RBW, 10 Hz VBW)	≤ -105 dBm	150 kHz ~ 2.7 GHz	
		≤ -100 dBm	2.7 GHz ~ 6.2 GHz	
	Amplitude Unit	dBm, dBmV, dBμV, V, mV, μV, W, mW, μW		
	Display Scale	≤ ±1.5 dB / 70 dB (10 dB / div), ≤ ±1.5 dB / 40 dB (5 dB / div)		
	Linearity	≤ ±0.5 dB / 8 dB (1 dB / div), ≤ ±0.5 dB / 16 dB (2 dB / div)		
	Frequency Response (Based on 0dB atten)	-3.5~1.5 dB(100 kHz ~ 10 MHz)		
		±1.5 dB (10 MHz ~ 6.2 GHz)		
	Reference Level	Range	20 dBm ~ -90 dBm	
		Resolution	0.1 dB	
		Accuracy	±1.5 dB	
	2nd Harmonic Distortion	≤ -60 dBc, -40 dBm input		
	Intermodulation Distortion	≤ -70 dBc, -40 dBm Input		
	Residual Spurious	≤ -85 dBm (Input terminated, 0 dB attenuation)		
	Other Input Spurious	≤ -60 dBc, -30 dBm Input		
	Resolution Bandwidth	Selections	1 kHz, 3 kHz, 10 kHz, 30 kHz, 100 kHz, 300 kHz, 1 MHz, 3 MHz, 9 kHz, 120 kHz	
		Accuracy	±20%	
Selectivity		60 dB / 3 dB ratio <15 : 1		
		60 dB / 6 dB ratio <12 : 1 (9 kHz, 120 kHz)		
Switching Error	≤ ±1.0 dB (1 kHz Reference RBW)			
Video Bandwidth	10 Hz to 3 MHz in 1-3-10 step			
SWEEP	Rate	100 ms to 1000 sec, 40 ms to 1000 sec (Zero span)		
	Accuracy	≤ ±20%		
	Trigger Source	External(rear), Video, Free run, Line		
	Trigger Modes	Continuous, Single		
	Trigger Level	TTL level		
Screen Display	Type	6.4" Color TFT LCD		
	Display Resolution	640(H)×480(V) active display area		
	Marker Modes	Peak search, Delta marker, Marker to Center Marker to Reference (8 markers maximum)		
Input	RF Input Connector	N type Female, 50 ohm nominal		
	VSWR	150 kHz ~ 3.0 GHz ; VSWR < 1.5 : 1 (0 dBm Ref Level)		
		3.0 GHz ~ 6.2 GHz ; VSWR < 2 : 1 (with 0 dBm Ref Level), typical < 1.5 : 1		
Maximum Input Level	0 VDC, +20 dBm			
Memory	Trace Storage	Maximum 900 waveforms		
	Setup Storage	Maximum 3000 states		



PSA 6000

6.2GHz Spectrum Analyzer

Standard (10MHz, Ref.)	Temperature Stability	± 0.5 ppm		
	Aging	± 0.5 ppm / Year		
	Connector	BNC female		
	Input Level	-5 dBm to +15 dBm		
	Output Level	10 MHz, +8 dBm nominal		
Interface	RS-232C	Null Modem for Remote Control		
	Printer	Driver	PCL Command, HP, EPSON, Laser-Jet, Desk-Jet	
		Connector	Standard 25 pin female D-Sub using parallel connector	
	USB Host	Printer Driver	PCL Command, HP, EPSON, Laser-Jet, Desk-Jet	
		USB Storage Device	Supports 1.1 and 2.0, image file for storage, GIF format	
	Ethernet(Optional)	10-Base-T Ethernet	Supports internet remote control	
GPIB Interface(Optional)	IEEE 488 bus			
General Specifications	Dimensions	350(W) × 195(H) × 375(D)mm		
	Weight	10 kg		
	Warming up Time	20 minutes for the precision measurement		
	Power	Source Voltage and Frequency	100-240 VAC at 50/60Hz	
		Power Consumption	80 watts maximum without option	
	Operating Temperature	0 °C to 40 °C		
	Storage Temperature	-20 °C to 70 °C		
	RF Emissions, Immunity	RF emissions	EN 55011, FCC PART15 Section 15.101	
RF Immunity		EN 61326		

Options

- GPIB Interface (IEEE 488 Bus)
- ETHERNET Interface ; for Internet Remote Control
- SOFT CARRYING CASE
- General KIT SET
- CATV KIT SET

· Our product specifications may change in our efforts based on New Technology