

-130 dBm Average Noise Level • DTV Shoulder Mask measurement

Full Digital synthesizer mode

6.2GHz Spectrum Analyzer

LPT-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
- Pre Amp as standard

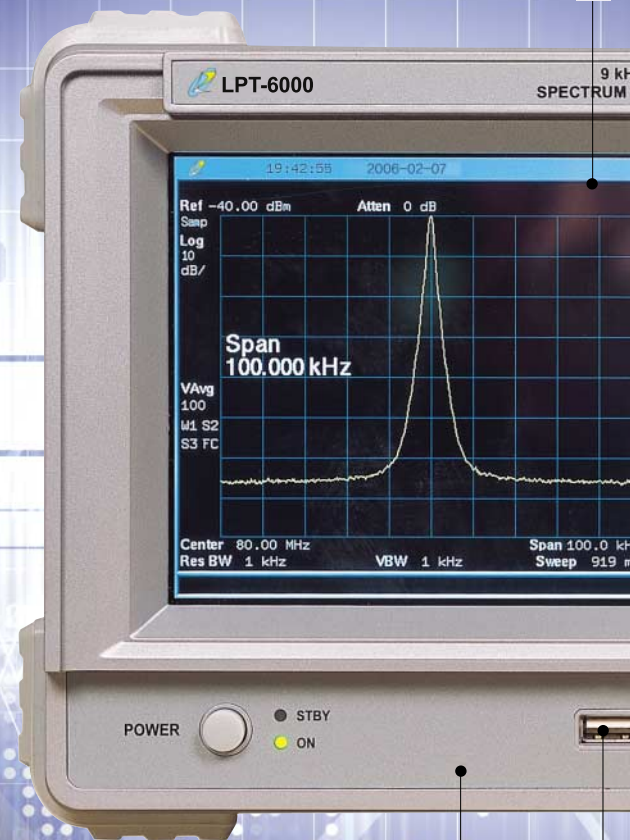
- AM/FM HD Testing & Troubleshooting
- NRSC, FCC, and iBiquity Compliance Mask
- DTV(8VSB) FCC Mask
- Spurious Emissions and Spectrum Emissions Mask
- 300 Hz RBW Filter for AM Digital
- Full Screen Display
- Save and Print Screen Shots
- Remote Operation from the Studio



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
- Pre Amp as standard
- Wide Input Dynamic Range : -130 ~ 20 dBm
- Ease-of-Use Key Buttons
- CDMA Measurement : ACP, ACLR, OCBW, Channel Power
- Various and Convenient Interfaces : USB, LAN
- 0.5 ppm high precision reference

■ Various and convenient interfaces



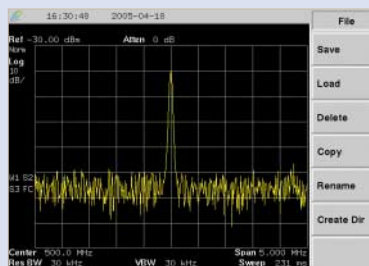
GPIB(Optional), LAN(Optional), RS-232C, Printer, EXT Trigger REF I/O (10 MHz)

■ Remote Control function



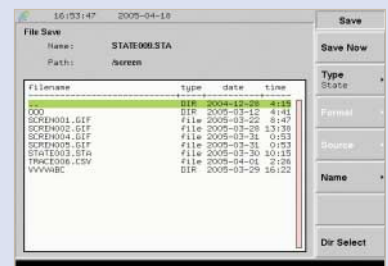
Remote controls the analyzer and manages data thru PC or Internet

■ 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

LPT 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 :

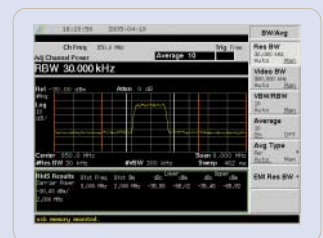
The PSA-6000 model provides power measurement functions for mobile communication and simple menus. Measured values are automatically displayed at the bottom of trace.

· **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

Specifications

| | | | | |
|----------------------------------|---|--|---|--|
| Frequency | Range | 9 kHz to 6.2 GHz | | |
| | Resolution | Minimum 1 Hz | | |
| | Span Range | 100 Hz/div to 300 MHz/div, 1,2,5steps Selection(Automatic), ZERO Span, FULL Span (9kHz to 6.2GHz) | | |
| | 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) | | |
| Amplitude | Phase Noise | ≤ -90 dBc/Hz @10 kHz offset | | |
| | Range | + 20 dBm ~ -105 dBm, + 20 dBm ~ -130 dBm(Pre Amp ON) | | |
| | Average Noise Level (1 kHz RBW, 10 Hz VBW) | ≤ -105 dBm | 150 kHz ~ 2.7 GHz | |
| | | ≤ -127 dBm(Pre Amp On) | 20 MHz ~ 2.7 GHz | |
| | | ≤ -100 dBm, -123 dBm(Pre Amp On) | 2.7 GHz ~ 6.2 GHz | |
| | | ≤ -130dBm(Pre Amp On) ; Typically | | |
| | Amplitude Unit | dBm, dBmV, dBμV, V, mV, μV, W, mW, μW | | |
| | Display Scale Linearity | ≤ ±1.5 dB / 70 dB (10 dB / div), ≤ ±1.5 dB / 40 dB (5 dB / div), ≤ ±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) | | |
| | Reference Level | ±1.5 dB (10 MHz ~ 6.2 GHz) | | |
| | 2nd Harmonic Distortion | Range : 20 dBm ~ -90 dBm, Resolution : 0.1 dB, Accuracy : ±1.5 dB | | |
| | Intermodulation Distortion | ≤ -60 dBc, -40 dBm input | | |
| | Residual Spurious | ≤ -70 dBc, -40 dBm Input | | |
| | Other Input Spurious | ≤ -85 dBm (Input terminated, 0 dB attenuation) | | |
| | Resolution Bandwidth | Selections | 1kHz, 3kHz, 10kHz, 30kHz, 100kHz, 300kHz, 1MHz, 3MHz, 9kHz, 120kHz | |
| | | 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 | | |
| Memory | Trace Storage | Maximum 900 waveforms | | |
| | Setup Storage | Maximum 3000 states | | |
| 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 (with 0 dBm Ref Level) | | |
| | Maximum Input Level | 0 Vdc, +20 dBm | | |
| Standard Frequency (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 | - | | |
| | 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 | |
| GPIO 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, RF Immunity | RF Emissions : EN 55011, FCC PART 15 Section 15.101, RF Immunity : EN 61326 | | | |

Option

- GPIB INTERFACE (IEEE 488 Bus) · ETHERNET INTERFACE ; for Internet Remote Control · SOFT CARRYING CASE
- General KIT SET · CATV KIT SET · RETURN LOSS BRIDGE KIT SET

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



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