-130 dBm Average Noise Level • DTV Shoulder Mask measurement

- 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

USB MEMOR

• Spurious Emissions and Spectrum Emissions Mask

MARKER

5 6 2 3 · +/+ BRTE

0

TPUR PEAK SEANCH

4

- 1 Second Sweep Time
- 300 Hz RBW Filter for AM Digital
- 100 dBm Display Range
- Full Screen Display
- Save and Print Screen Shots
- Remote Operation from the Studio

LP Technologies, Inc.

http://www.lptech.com

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LPT-3000

Full Digital synthesizer mode – LPT–3000, 3GHz Spectrum Analyzer of wide

The Model LPT-3000 Spectrum Analyzer is a fully synthesized RF Spectrum Analyzer featuring simple user controls which allow the novice or the seasoned expert to use the LPT-3000 right out of box. The LPT-3000 provides you with a powerful RF test and measurement tool for CDMA and WCDMA RF systems, broadcast RF systems, 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 LPT-3000 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
- \cdot Wide Frequency Coverage : 9 kHz \sim 3.0 GHz
- Superior Resolution : Minimum 1 Hz
- · Compact & Portable size
- · Pre Amp as standard
- \cdot Wide Input Dynamic Range : -130 \sim 20 dBm
- · Ease-of-Use Key Buttons
- · CDMA Measurement : ACPR, ACLR, OCBW, Channel Pewer

Various and convenient interfaces
Remote control function

- · Various and Convenient Interfaces : USB, LAN
- · 0.5 ppm high precision reference

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

Auto set function

2 12130148 2000-04118	1.94
Arti-32.00 cDm Adam 0 ctt	Rave
	Load
	Dalete
	Сару
 Mathian Abrahly: Yarnahasalmahilya 	Rename
	Creste De
Center 500.0 HTz. Res SW 30 Htz. WBW 30 Htz. Swite 3,000 Htz.	
est agenty monitor.	

Automatically displays and sets maximum signal trace



Remote controls the analyzer and manages data thru PC or Internet

Save / Recall function



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



1 High definition 640 x 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 LPT-3000 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 Bandwith(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.

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

W % Pwr 97.60 1

on our website, http://www.lptech.com.

5 Large Internal Memory Space

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

CDMA Signal Generator (Option)

This optional CDMA Signal Generator(CDMA 2000 ; Pilot Channel, WCDMA ; CPICH) contains CW signal, digital internal modulation signal and IQ modulator within itself. It is

the powerful signal source sought by the CDMA application-related fields such as training and education, inspection on modules, elements and amplifliers, and onsite repair and maintenance.



Specifications

_	-				
Frequency	Range	9 kHz to 3.0 GHz			
	Resolution	Minimum 1 Hz 100 Hz/div to 300 MHz/div, 1,2,5steps Selection(Automatic), ZERO Span, FULL Span (9kHz to			
	Span Range				
	Frequency Selection	Start, Stop, Center	Span Setup		
	Span Accuracy	±3% of the Indicat	ed Span Width		
	Readout Accuracy	$\leq \pm$ (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, + 20 dBm ~ -130 dBm(Pre Amp ON)			
·	Average Noise Level	≤ -105 dBm 150 kHz ~ 2,7 GHz			
	(1 kHz RBW.	$\leq -127 \text{ dBm}(\text{Pre Amp On})$		20 MHz ~ 2.7 GHz	
	10 Hz VBW)	≤ -100 dBm, -123 dBm(Pre Amp On) 2.7 GHz ~ 3 GHz			
	,	≤ -130dBm(Pre Amp On); Typically			
	Amplitude Unit	dBm, dBmV, dBuV, V, mV, uV, W, mW, uW			
	Display Scale Linearity	$\leq \pm 1.5 \text{ dB} / 70 \text{ dB} (10 \text{ dB} / \text{div}) \leq \pm 1.5 \text{ dB} / 40 \text{ dB} (5 \text{ dB} / \text{div}) \leq \pm 0.5 \text{ dB} / 8 \text{ dB} (1 \text{ dB} / \text{div}) \leq \pm 0.5 \text{ dB} / 16 \text{ dR} (2 \text{ dR} / \text{div})$			
	Frequency Response	$-3.5 \sim 1.5 \text{ dB}$ (100 kHz \sim 10 MHz)			
	(Rased on OdR atten)				
	Reference Level	Range : 20 dBm ~	r = -90 dBm Resolution : 0.1 (HR Accuracy : +15 dB	
	2nd Harmonic Distortion	$\leq -60 dB_{\odot} -10 d$	Bm input		
	Intermedulation Distortion	\leq -70 dBc, 40 d	Pm Input		
	Decidual Spurious	S = 70 dDc, = 40 dDill lipul			
	Residual Spurious	S = 60 dBn (input terminated, 0 db alteridation)			
	Other Input Spurious	S -60 BC, -30 BM INPUT			
	Resolution Bandwidth	Selections	IKHZ, 3KHZ, IUKHZ, 3UKHZ,	100KHZ, 300KHZ, 1MHZ, 3MHZ, 9KHZ, 120KHZ, (New)300 HZ	
		Accuracy			
		Selectivity	60 dB / 3 dB ratio (15 - 1,	00 dB / 6 dB ratio (12 · 1 (9 KHZ, 120 KHZ)	
		Switching Error $\leq \pm 1.0$ dB (1 kHz Reference RBW)			
014/555	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	$\leq \pm 20\%$			
	Trigger Source	External(rear), Video, Free run, Line			
	Trigger Modes				
	Trigger Level				
Memory	Trace Storage	Maximum 900 waveforms			
	Setup Storage	Maximum 3000 states			
Screen	Type	0.4 COIOT IFT LCD			
Display	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	Temperature Stability	± 0.5 ppm			
Frequency	Aging	± 0.5 ppm / Year			
(10MHz, Ref.)	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, imag	e file for storage, GIF format	
	Ethernet(Option)	10-Base-T Ethernet	Supports internet remote c	ontrol	
	GPIB Interface(Option)	IEEE 488 Bus			
General	Dimensions	350(W)×195(H)×375(D)mm			
Specifications	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

· TRACKING GENERATOR · CDMA (CDMA2000, WCDMA) SIGNAL GENERATOR · GPIB Interface(IEEE488Bus)

· 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



🖉 LP Technologies, Inc.

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