

LPT-3000, 3.0GHz Spectrum Analyzer



Features

- Superior Resolution: minimum 1 Hz
- Digitally synthesized RF system
- Frequency range to 3.0 GHz
- Input Levels - 105 dBm to +20 dBm
- CDMA Measurement
- Various and Convenient Interface:
USB, LAN
- 0.5 ppm high precision reference

Applications

- Consumer Wireless Remotes, Microphones, Monitors
- Bluetooth Radio
- Industrial, Scientific, Medical(ISM)
- Cellular and PCS, CDMA and WCDMA RF systems
- Two-Way Radio Trunk Radio
- Paging
- Commercial Broadcasting
- Field Service and Installation
- Point-to-Point Microwave
- Public Utilities, Railroads

The LPT-3000 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, broadcasting 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 unbelievable price.

Options

TREACKING GENERATOR
CDMA (CDMA2000, WCDMA) SIGNAL GENERATOR
AC/DC/BATTERY OPERATION PACK
GPIB INTERFACE
ETHERNET INTERFACE
SOFT CARRYING CASE
CATV KIT SET
RETURN LOSS BRIDGE KIT SET

LPT-3000 - 3.0GHz Spectrum Analyzer Specification

Specification		
Frequency	Range	9 kHz-30000 MHz
	Resolution	Minimum 1 Hz
	Span Range	100 Hz/div to 300 MHz/div 1,2,5 steps Selection (Automatic), ZERO Span, FULL Span (9kHz to 3.0GHz)
	Frequency Selection	Start, Stop, Center Span Setup
	Span Accuracy	± 3% of the indicated Span Width
	Phase Noise	-90dBc/Hz @10kHz offset
	RBW Selection	1kHz, 3kHz, 10kHz, 100kHz, 300kHz, 1MHz, 3MHz, 9kHz, 120kHz
	RBW Accuracy	± 20%
	VBW Range	10Hz to 3MHz in 1-3-10 steps
Amplitude	Measurement Range	-105dBm ~ +20dBm
	Average Noise Level (1 kHz RBW, 10 Hz VBW)	< -105 dBm: 150 kHz ~ 1 GHz < -100 dBm: 1 GHz ~ 2.4 GHz, 50 kHz ~ 150 kHz < -95 dBm: 2.4 GHz ~ 3.0 GHz
	Amplitude Units	dBm, dBmV, dBuV, V, mV, W, mW, uW
	Reference Level Accuracy	± 1.5dB @100MHz
	Reference Level	Range: 20 dBm ~ -90 dBm Resolution: 0.1 dB Accuracy: ± 1.5 dB
	Display Range	0 to -70dB from reference level(3kHz)
	Display Level Linearity	±1.5dB over 0 to 70dB
	Residual Spurious	-85dBm, (input terminated, 0 dB attenuation)
	2nd Harmonic distortion	< -60dBc, -40dBm input
	Intermodulation Distortion	<-70dBc, -40dBm input
	Other Input Spurious	<-60dBc -30dBm Input
Sweep	Rate	100 ms to 1000 sec, 40 ms to 1000 sec (Zero Span)
	Accuracy	< ± 20%
	Trigger Source	External (rear), Video, Free Run, Line
	Triger Mode	Continuous, Single
	Triger 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 X 480 Active Display Area
	Marker Modes	Peak Search, Delta Marker, Marker to Center Marker to References (8 markers maximum)
Input	RF Input Connector	N Type Female, 50 ohm nominal
	VSWR	150 kHz ~ 3.0 GHz, VSWR (1.5:1 with 0dBm Ref Level 0 Vdc, +20 dBm
	Maximum Input Level	
Standard Frequency (10 MHz, 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-232	
	Printer	
	USB	
	Ethernet	
	GPIB	
General Specification	Operating Temperature	0 to 40 C
	Storage Temperature	-20 to 70 C
Power	Power Source	AC 100 - 240V, 48 - 63Hz
Dimension & Weight	Weight	10 kg,
	Size	350mm x 195mm x 375mm
Other	RF Emissions	EN 550011
	RF Immunity	EN 50082-1