

LPT-3000R 3.0 GHz REMOTE SPECTRUM ANALYZER

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3.0GHz Remote Spectrum Analyzer

Surpasses the Sprint/Nextel 2GHz Relocation Spectrum Monitoring
Requirements

*Under the Allowance of the Broadcaster's 2GHz Relocation
Reimbursement*

Multifunctional General Purpose 3GHz Full Band Spectrum
Analyzer

**The unit interfaces with the N Systems
(NSI) remote control system, allowing
control of the monitor and display of its
output at the studio.**

Remotely Controlled Real Time Monitoring Capability of 1st IF, 2nd
IF, 2GHz RF and Extra RF Antenna for Interference Tracing - Four
RF Inputs

Measure power in the shoulders for the FCC Mask, DTV (LPT-3000)



- **Digital TV Signal Monitoring and Site Data Logging (Large Internal Memory)**
- **Remote Site Monitoring via LAN, RS-232, Wireless or the Internet**
- **Real Time Display of Remote Signals**
- **User Can Select 1st IF, 2nd IF , or RF Signal Controlled by Software (LPT RF Switch Box Receives up to 4 Signals)**
- **Rack Mount Enclosure (1 RU)**
- **High Performance**
- **Low Cost and Meeting Budget**
- **Low Noise Level**
- **Low Phase Noise**
- **Frequency Range of 9 kHz to 3 GHz**
- **Available Now**

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: USA , LAN**
- **0.5 ppm high precision reference**

Applications

- Digital TV Monitoring
- 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
- Public Utilities, Railroads
- Point-to-Point Microwave

Specifications

LPT-3000R – 3.0GHz Remote Spectrum Analyzer Specification

Specification		
Frequency	Range	9 kHz -3.0 GHz
	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	-120dBm ~ +20dBm
	Average Noise Level (1 kHz RBW, 10 Hz VBW)	< -120 dBm: 150 kHz ~ 1 GHz < -120 dBm: 1 GHz ~ 2.4 GHz, 50 kHz ~ 150 kHz < -120 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	< 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	LCD Display
Input	RF Input Connector VSWR	N Type Female, 50 ohm nominal 150 kHz ~ 3.0 GHz, VSWR (1.5:1 with 0dBm Ref Level
	Maximum Input Level	0 Vdc, +20 dBm
Standard Frequency (10 MHz, Ref)	Temperature Stability	< 0.5 ppm
	Aging	nbsp; 0.5 ppm/year
	Connector	BNC Female
	Input Level Output Level	-5 dBm to +15 dBm 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 55011
	RF Immunity	EN 50082-1