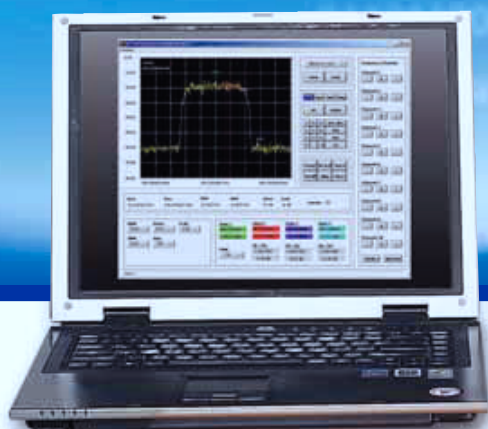


Full Digital Synthesizer Mode

3.0 GHz Remote Spectrum Analyzer

LPT-3000R

- Digital TV Signal Monitoring
- Remote Site Monitoring via LAN, RS-232, Wireless or the Internet
(Install Permanently into the Field and Monitor Remotely)
- Real Time Display of Remote Signals
- Rack Mount Enclosure
- High Performance (Extremely Superior Specifications)
- Low Cost
- Low Noise Level
- Low Phase Noise
- Frequency Range of 9 kHz to 3 GHz
(Allowing Users to Monitor Both 70 MHz IF and RF Signals up to 3 GHz)
- External RF Input Switching Module For Multi Input
- Wide Input Dynamic Range



LP Technologies, Inc.

<http://www.lptech.com>

Specifications

Frequency	Range	9 kHz to 3.0 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 3.0GHz)	
	Frequency Selection	Center Span Setup	
	Span Accuracy	±3% of the Indicated Span Width	
	Readout Accuracy	$\leq \pm(\text{Indicated frequency} \times \text{reference frequency accuracy} + \text{span} \times \text{span accuracy} + 50\% \text{ of RBW})$	
Amplitude	Phase Noise	$\leq -90 \text{ dBc/Hz @10 kHz offset}$	
	Range	+ 20 dBm ~ -105 dBm	
	Average Noise Level (1 kHz RBW, 10 Hz VBW)	$\leq -95 \text{ dBm } 150 \text{ kHz} \sim 2.7 \text{ GHz}$ $\leq -125 \text{ dBm (Pre Amp On) } 20 \text{ MHz} \sim 2.7 \text{ GHz}, \leq -95 \text{ dBm, } -125 \text{ dBm (Pre Amp On) } 2.7 \text{ GHz} \sim 3 \text{ GHz}$ $\leq -105 \text{ dBm (Pre Amp off)}; \text{Typically } \leq -135 \text{ dBm (Pre Amp On)}; \text{Typically}$	
	Amplitude Unit	dBm, dBm V, dBμV	
	Display Scale Linearity	$\leq \pm 1.5 \text{ dB} / 70 \text{ dB (10 dB / div)}, \leq \pm 1.5 \text{ dB} / 40 \text{ dB (5 dB / div)}, \leq \pm 0.5 \text{ dB} / 8 \text{ dB (1 dB / div)}, \leq \pm 0.5 \text{ dB} / 16 \text{ dB (2 dB / div)}$	
	Frequency Response (Based on 0dB atten)	$-3.5 \sim 1.5 \text{ dB (100 kHz} \sim 10 \text{ MHz)}$ $\pm 1.5 \text{ dB (10 MHz} \sim 3 \text{ GHz)}$	
	Reference Level	Range : 20 dBm ~ -90 dBm, Resolution : 0.1 dB, Accuracy : ±1.5 dB	
	2nd Harmonic Distortion	$\leq -60 \text{ dBc, } -40 \text{ dBm Input}$	
	Intermodulation Distortion	$\leq -70 \text{ dBc, } -40 \text{ dBm Input}$	
	Residual Spurious	$\leq -85 \text{ dBm (Input terminated, 0 dB attenuation)}$	
	Other Input Spurious	$\leq -60 \text{ dBc, } -30 \text{ dBm Input0}$	
	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	$\leq \pm 1.0 \text{ dB (1 kHz Reference RBW)}$
	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	$\leq \pm 20\%$	
Memory	Setup Storage	20	
Screen Display	Type	Pc or Notebook	
	Display Resolution	640(H)×480(V) active display area	
	Marker Modes	Peak Search, Delta Marker, Peak Hold, Min Hold	
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	
Interface	RS-232C	Null Modem Remote Control	
	Ethernet	10-Base-T Ethernet : Supports internet remote control	
General Specifications	Dimensions	436(W)×88(H)×485(D)mm	
	Weight	10 kg	
	Warming up Time	20 minutes for the precision measurement	
	Power	Source Voltage and Frequency : 100-240 VAC at 50/60 Hz, Power Consumption : 80 watts maximum without option	
	Operating Temperature	0 °C to 40 °C	
	Storage Temperature	-20 °C to 70 °C	

Option

- RF Input Switching/Pre Amp Module
 - Multiplexing 4:1
 - Pre Amp Gain : ≥30dB(@2GHz)
 - Antenna Path Dividing Output



- An additional pre-amplified 4 input system, for increased sensitivity, and RF multitasking solutions
- Software controlled 4 RF input system allows users to monitor multiple devices remotely

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

 **LP Technologies, Inc.**

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