

Контрольно-измерительная техника

ООО "Техэнком"

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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, 1,2,5 steps 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	≤ ±(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	
	Average Noise Level (1 kHz RBW, 10 Hz VBW)	≤ -105 dBm ; ≤ -135 dBm(Pre Amp On) : 150 kHz ~ 1 GHz	
		≤ -100 dBm ; ≤ -130 dBm(Pre Amp On) : 1 GHz ~ 2.4 GHz, 50 kHz ~ 150 kHz	
		≤ -95 dBm ; ≤ -120 dBm(Pre Amp On) : 2.4 GHz ~ 3 GHz	
	Amplitude Unit	dBm, dBmV, dBμV	
	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)	
		±1.5 dB (10 MHz ~ 3 GHz)	
	Reference Level	Range : 20 dBm ~ -90 dBm, Resolution : 0.1 dB, Accuracy : ±1.5 dB	
	2nd Harmonic Distortion	≤ -60 dBc, -40 dBm Input	
	Intermodulation Distortion	≤ -70 dBc, -40 dBm Input	
	Residual Spurious	≤ -85 dBm (Input terminated, 0 dB attenuation)	
	Other Input Spurious	≤ -60 dBc, -30 dBm Input 0	
	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%	
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 50/60Hz, 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



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