

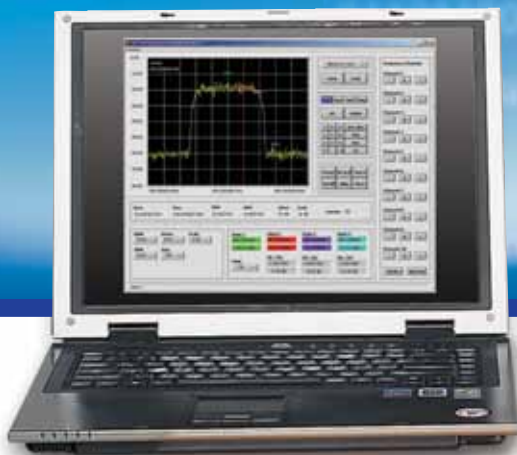
Full Digital Synthesizer Mode

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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