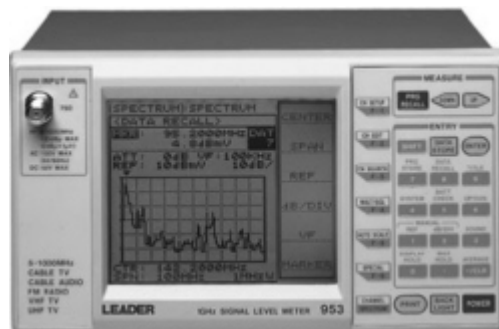


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Model 953: Cable Spectrum Meter



Model 953 offers both spectrum analyzer functions and multiple/single bargraph level readings for TV, CATV, FM, wireless mic and many other RF services covering the range of 5 to 1030 MHz. Totally portable and easily programmed, it combines the time saving power of auto search and ranging with lookup tables for broadcast and cable frequency assignments used in the USA and throughout the world.

The spectrum analyzer function covers the range of 5 to 1030 MHz with control of center frequency, span (sweep width from 10 MHz to 1 GHz with automatic resolution selection of 100 kHz, 330 kHz or 1 MHz), attenuation, reference level, video filter, sensitivity and dB/div. A moveable cursor reads out frequency and level at selected points on the display.

As a level meter, the 953 bargraphs show 8 to 128 channels simultaneously with automatic or manual settings for reference level and scale factor. A moveable cursor reads out level and frequency for each displayed channel and a single-channel display for the channel picked by the cursor may be shown. The single-channel display includes coarse and fine bargraphs for level.

Measuring programs may be set up manually or from AUTO SEARCH and edited to meet the needs of individual systems. Up to 50 measuring programs may be stored as well as 512 sets of measured data. Programs and stored data may be loaded into a PC via an RS-232C interface and programs may also be transferred between 953 units. Special measurements include video and sound carrier levels, NICAM, carrier S/N, hum and cable-carried AC/DC volts. Stability is also measured with level notation at selected time intervals, the 953 also provides hard copy in spectrum, bargraph or numerical notation using the dedicated printer, Model 712.

- **Cable Feed AC/DC Volts**
- **Spectrum Marker Reads Digital Frequency and Level**
- **Bargraph Shows up to 128 CH**
- **Single and Multi-Channel Displays**
- **Auto-Channel Search**
- **Setup Programs with Custom Channel Labels**
- **Edit Programs for System Needs Including 25, 12.5 kHz Offsets**
- **Stores 50 Measuring Setups**
- **Stores 512 Data Sets**
- **U.S. and Worldwide CH Charts**
- **RS-232C Interface**
- **Program Transfer Between Units**
- **dBmV, dBmW, dBm V or dBm VEMF**
- **Hard Copy Printer Documents Spectrum, Bargraphs, Tabular Data**
- **Internal Speaker for Spectrum and Bargraph Modes**
- **Auto Power Shutoff**
- **Rechargeable Battery (Option)**

Specifications

FREQUENCY RANGE

Frequency
5 to 1030 MHz
Frequency Step Resolution

CHANNEL SETUP PROGRAMS

Max 50 programs (varies based on
number of channels per program)
Example: 50 programs at 40 channels

12.5 kHz step
 Frequency Accuracy
 ◆ 10 kHz

CHANNEL TABLES

CATV

16 charts SUB BAND A, B
 USA (STD HIS), (STD EIA), (HRC EIA),
 (IRC EIA)
 JERROLD (STD), (HRC), CCIR, JAPAN,
 CHINA, IRELAND, FRANCE,
 HOLLAND, PHILIPS, SEIMENS

VHF

16 charts USA, CCIR, OIRT, JAPAN,
 CHINA and 11 countries

UHF

7 charts USA, CCIR, OIRT, JAPAN,
 CHINA and 2 countries

VHF + UHF

12 charts USA, CCIR, OIRT, JAPAN,
 CHINA and 7 countries

RADIO MIC

AL BAND, AH BAND, B BAND,
 C BAND

LEVEL MEASUREMENTS

Range (at 110 kHz Bandwidth)

60 to -45 dBmV (0 dBmV = 1 mV, 75 W
 terminated)

11 to -94 dBmW (0 dBmW = 1 mW, 75 W
 terminated)

120 to 15 dB◆V (0 dB◆V = 1 ◆V, 75 W
 terminated)

126 to 21 dB◆VEMF (0 dB◆VEMF = 1 ◆V
 75 W open)

Resolution

0.1 dB

Accuracy

◆ 2 dB or less (◆ 40 dB◆V)

◆ 3 dB or less (< 40 dB◆V)

Bandwidth

110 kHz, 330 kHz, 1 MHz

Detection

Average detection but when last
 character of the channel indication is
 "V", it is peak detection

C/N MEASUREMENT

Range

20 to 50 dB (conversion value based
 on 4 MHz bandwidth when the signal
 level is greater than 85 dB◆V)

Accuracy

4 dB

HUM MODULATION MEASUREMENT

Modulation Bandwidth

2 to 200 Hz

Range

0.5 to 5%

Accuracy

Within ◆ 1%

DISPLAY

16 programs at 128 channels
 20 programs at Spectrum

SCALE SELECT

Auto or manual selectable

Reference Level

20 to 120 dB◆V

Scale

2, 5, 10 dB/div

DATA MEMORY

Max 512 memories (varies based on
 number of channels per program)

Examples: 512 memories at 27 channels

109 memories at 128 channels

138 memories at Spectrum

RS-232C

Serial Interface (9 pin D-sub connector)

Parameters

X Parameter

ON, OFF

Data Bit Length

7 bit, 8 bit

Parity

Non, Odd, Even

Stop Bit

1 bit, 2 bit

Baud Rate

300, 600, 1200, 2400, 4800, 9600 bps

Printer Output

Optional Model 712, data, graph, data
 plus graph

Remote Control

All functions except power ON/OFF and
 RS-232C setup

CABLE LINE VOLTAGE MEASUREMENT

AC Voltage

1 - 100 V rms 50/60 Hz sinewave
 rms indication, p-p detection

DC Voltage

1 - 50 V

AC/DC

Automatic selection

Resolution

0.1 V

Accuracy

◆ (5% + 1 V)

Audio Speaker

Built in with on, off and volume adjust

Auto Power

Approx. 5 minutes after last operation of
 any key, defeatable

ENVIRONMENTAL

Operating Temperature

0◆ to 40◆C

Humidity

30 to 85% RH

Storage Temperature

-10◆C to 50◆C

PHYSICAL

Size (W x H x D)

8 3/8 x 4 3/4 x 7 7/8 in.

Area
6 div (V) x 10 div (H)
Spectrum
5 to 1030 MHz center frequency
1 to 1025 MHz span
Multi-Bargraph
1 to 128 channel bargraph with digital display for a designated single channel
Single Bargraph
Single bargraph and digital display

LCD

Display
128 dot (V) x 160 dot (H)
Dot Size
0.56 mm x 0.56 mm
Spectrum Area
60 dot (V) x 100 dot (H)
Bargraph Area
60 dot (V) x 128 dot (H)

213 x 120 x 200 mm
Weight
8 lbs., 3.6 kg (batteries included)

SUPPLIED ACCESSORIES

8 D cells
1 DC Plug Cable
1 Carrying Case

AVAILABLE ACCESSORIES

Padded Carrying Case (LC-2240)
Dedicated Printer (Model 712)
AC Adapter (LPS-1950)
Nicad Battery (BP-95S)
Battery Cover for BP-95S (LC-2091)
Printer Cable 1m (LC-2096)
RS-232C IBM-PC Cable 1m (LC-2098)
RS-232C Data Transfer Cable 1m (LC-2099)

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