## Signal Level Meter



LF 943D

The Model LF 943D Signal Level Meter is designed to quickly and accurately measure CATV and VHF/UHF TV signals. The meter is applicable to digital terrestrial video broadcast as well as conventional analog broadcast systems. Sub-band operation starts at 5 MHz allowing for both upstream and down stream CATV testing. Ten memories allow store and recall for commonly used preset frequencies. Visual, aural and digital carrier levels are measured with onscreen display of measurement mode. CATV look up tables include standard HRC and IRC systems. Overall, the meter is easy to use, lightweight and ideal for field use.

## Features

- Measures digital and analog CATV, VHF, FM, UHF and pilot signals.
- Large digital display eases accurate repeatable level measurements.
- Memory function can store up to ten arbitrary measurement frequencies.
- CATV upstream can be measured with standard sub band starting at 5MHz.
- CATV lookup tables include USA STD, HRC and IRC systems.
- Antenna direction can easily be peaked with the bargraph display.
- Visual, sound and digital carrier level modes are measured.

## Specifications

Frequency Range:	5 to 870 MHz (50 kHz steps)	Other Functions:	
Frequency Setting:	Settable in 50 kHz steps (The frequency	Automatic Power Off:	5, 10, 20, 60 minutes, continuous
	of the memory channels can only be set)	<b>Environmental Conditions:</b>	
Built-In Channel Table:	Japan, U.S.A. (corresponding to each CATV	Operating	
	channel of STD, HRC, IRC), ITU-R (CCIR),	Temperature Range:	0 to 40° C
	China, UK, Hong Kong area, Indonesia,	Operating	
	Australia (Selectable with switch)	Humidity Range:	$\leq$ 85% RH (without condensation)
Level Measurement		Spec-Guaranteed	
Broadcast Format	AM (	Temperature Range:	0 to 40° C
Analog:	AM (video), FM (sound), CW	Spec-Guaranteed	
Digital:	OFDM (terrestrial digital broadcast system) 16-256 QAM (CATV)	Humidity Range:	$\leq$ 85% RH (without condensation)
	8VSB (terrestrial digital broadcast system	Storage	-10 to 50° C
	in USA)	Temperature Range: Operating Environment:	Indoor/Outdoor use (no rain water)
	The channel bandwidth (i.e., 5 MHz, 6 MHz,	Operating Altitude:	Up to 2000 m
	7 MHz, 8 MHz) can automatically be selected		2
	by setting the channel table.	Dimensions	2
Resolution:	1 dB	Size (W x H x D):	$7 \ge 2^{11}/_{16} \ge 7^{7}/_{8 \text{ in.}}$
Measurement Bandwidth:	Analog system: 280 kHz (typ.)	one (w x ii x b).	)
Digital System:	Five points in the channel bandwidth		180 x 68 x 200 mm (excluding protrusions)
Measurement Range		Weight:	850 g (excluding batteries)
Analog:	30 to 110 dBµV (-30 to 50 dBmV)	weight.	Approx. 2.9 lbs., 1.3 kg
	(1 dB steps)		(Including C batteries)
Digital:	45 to 100 dBµV (-15 to 40 dBmV)	Power Supply:	6 C cells
	(1 dB steps)	i o wei ouppij:	Power consumption: Up to 2.5 W
Accuracy		Accessories:	Carrying Case1
Analog:	±3 dB		Name Plate1
Digital:	±3 dB (Frequency response of channel		C cell6
Detection Method	bandwidth should be flat).		Instruction Manual1
Analog:	Peak Detection		
Digital:	Average-value detection		
Level Unit:	dBµV, dBmV, selectable		
Display			
LCD Panel:	Display area: 30 x 70 mm		
Input Connector:	F-type, 75 Ω		
Monitor Output:	FM detection (sound frequency)		
	AM detection (video frequency)		
Output Connector:	3.5 Ø, monaural jack (for earphone)		
Memory			
Number of Channels:	Up to 10 channels		
Storable Item:	Frequency, Modulation type (analog		
	on digital)		

or digital)