LEVEL METER

SIGNAL LEVEL METER

• Digital terrestrial TV + Digital CATV • Digital Display All Channel (VHF+UHF+Cable TV) • Simple Operation, Low-Cost Model

LF 941D SIGNAL LEVEL METER

GENERAL

The Model LF 941D TV Signal Level Meter enables speedy and accurate measurement of VHF/UHF TV and CATV signals.
This level meter can measure levels of digital broadcast signals as well as conventional analog broadcast signals.
Since ten programmable channels are provided to store arbitrary frequencies, a pilot signal, FM broadcast signals, and frequently used frequencies can be stored.
The large digital display for level readout and bargraph level indicator for antenna installation enhance speedy and accurate level measurements.
This compact & lightweight level meter is ideal for VHF/UHF antenna and CATV installations.

FEATURES

- **This level meter can measure levels of digital and analog VHF/UHF TV and CATV signals.**
- **Ten programmable channels are provided to store arbitrary frequencies.**
- **Compact, lightweight (1.3 kg), and simple operation ideal for field use.**
- **Digital level readout for easy and accurate measurements.**
- **Sound carrier level can also be measured.**
- **Continuous 12-hour operation with six Alkaline C cells.**
- **Time settable automatic power-off function prevents useless battery power consumption.**
- **Built-in eight channel tables for worldwide use.**

SPECIFICATIONS LF 941D

Frequency Range	
	46 to 870 MHz (0.05 MHz steps) *1
Frequency Setting	
	Settable in 50 kHz steps (The frequency of memory channels can only be set.)
Built-In Channel Table	
	Japan, USA (corresponding to each CATV channel of STD, HRC, IRC), ITU-R (CCIR), China, UK, Honk Kong area, Indonesia, Australia (Selectable with switch)
Level Measurement	
Broadcast Format	
Analog:	AM (video), FM (sound), CW
Digital:	MSK, BPSK, QPSK, 16 to 256 QAM, OFDM, 8VSB (Channel bandwidth: 5 MHz, 6 MHz, 7 MHz, 8 MHz)
Resolution:	1 dB
Measurement Bandwidth:	280 kHz (typ.)
Measurement Range	
Analog:	30 to 110 dBµV (-30 to 50 dBmV)(1 dB steps)
Digital:	45 to 100 dBµV (-15 to 40 dBmV)(1 dB steps)
Minimum Display Level*2	
Analog:	20 dBµV (typ.)
Digital:	35 dBµV (typ.)
Accuracy	
Analog:	±3 dB
Digital:	±3 dB (Frequency response of channel bandwidth should be flat.)
Detection Method	
Analog:	Peak detection
Digital:	Average-value detection
Display	
LCD panel:	Display area: 30 x 70 mm
Input connector	
	F-type, 75Ω
Monitor Output	
	FM detection (sound frequency) AM detection (video frequency)
Output Connector	
	3.5 ϕ, monaural jack (for earphone)

Memory	
Number of Channels:	Up to 10 channels
Storable Item:	Frequency, Modulation type (analog or digital)
Power Supply	
	6 C cells Power consumption: Up to 2.5 W
Battery Life	
	At least 4 hours with high-grade Manganese battery At least 12 hours with Alkaline battery (room temperature)
Other Functions	
Automatic power-off:	5, 10, 20, 60 minutes, continuous
Environmental Conditions	
Operating	
Temperature Range:	0 to 40 ˚C
Operating	
Humidity Range:	≤85 % RH (without condensation)
Spec-Guaranteed	
Temperature Range:	0 to 40 ˚C
Spec-Guaranteed	
Humidity Range:	≤85% RH(without condensation)
Storage	
Temperature Range:	-10 to 50 ˚C
Operating Environment:	Indoor/outdoor use (no rain water)
Operating Altitude:	Up to 2000 m
Pollution Degree:	2
Dimensions	
	180(W)x68(H)x200(D)mm (excluding projections)
Weight	
	850 g (excluding battery) Approx. 1.3 kg (including C battery)
Accessories	
	Carrying Case ..... 1 Name Plate ..... 1 C cell ..... 6 Instruction manual 1

*1 Could not operate 47.8 to 40.2 MHz and 95.8 to 96.2 MHz

*2 The displayed level below the measurement range (UNDER light) is only for your reference; the measurement accuracy is not guaranteed. Use this value such as antenna direction adjustment.