

FUJI LEAK NOISE CORRELATOR

LC-2500

**ADVANCED HIGH-SPEED DIGITAL PROCESSING AND
STURDY COMPOSITION WITH THE EASY OPERATION!**

The Leak Noise Correlator LC-2500 provides a quick solution by pinpointing a location of a leak on all type of pipe.



Instruments for the location of underground utilities and water leaks.

FUJI TECOM INC.

FUJI LEAK NOISE CORRELATOR

LC-2500



The LC-2500 system features

- High-speed processing by 24 bits Digital Signal Processor (DSP).
- High impact and vibration resistant.
- Large LCD display.
- Language function.
Furnishing in some other languages is possible besides English.
- Self-checking function.
When the main unit is powered on, the main unit automatically checks battery power, signal received, and etc.
- Leak noise frequency analyzing function.
Analyzing a leak noise frequency with FFT function.
- Variety of frequency filter setting.
- Leak noise recording function.
The main unit is able to record a leak sound received by both pre-amplifiers.
- Noise evaluation function.
To evaluate the detected noises by tri-level ranking.
- Either dry cell battery or rechargeable battery is available.

The LC-2500 system includes :-

- | | | |
|--------------------------------|---|--|
| ① LC-2500 main unit | 1 | Optional accessories consist of.- |
| ② Pre-amplifier (Blue and Red) | 2 | • Cable drum |
| ③ Pick-up sensor | 2 | • Cable drum connecting cable |
| ④ Stereo headphones | 1 | • Charger with rechargeable battery |
| ⑤ PC connecting cable | 2 | • Hydrophone sensor |
| ⑥ Sensor connecting adapter | 2 | |
| • Shoulder belt for main unit | 1 | |
| • Waist belt for main unit | 1 | |
| • Aluminum carrying case | 1 | |
| • English operation manual | 1 | |

The LC-2500 system specifications

● Specifications of Main Unit

Operation temperature range	: -20 to 50°C
Applicable standard	: IP52
External dimensions	: 197 (W)×100 (D)×250 (H) mm
Weight	: Approx. 3.1kg (including batteries)
Battery	: LR20×4 (DC 6V)
Continuous operating time	: 8h, min.(at 20°C)
Minimum operating voltage	: 4.2V
Input	: Radio or Cable
Display	: Dot matrix LCD
Operation	: Polarity correlation
Td range	: ±50 ms, ±100ms, ±200ms, ±400ms, ±800ms, ±1600ms or automatic setting
Time resolution	: 25 μs (in ±50ms range), 50 μs (in ±100ms range), 100 μs (in ±200ms range), 200 μs (in ±400ms range), 400 μs (in ±800ms range), 800 μs (in ±1600ms range)
Filter range	: THRU, 80Hz to 5,000Hz
Notch filter	: OFF, 50Hz, 60Hz
Auto filter	: Automatically selected according to the result of FFT operation
Data memory	: 100 data sets
FFT monitor	: 1kHz, 2.5kHz, 5kHz (common to both channels)
Sound memory	: For 16-second
External interface	: RS-232C

● Specifications of Pre-amplifier

Operation temperature range	: -20 to 50°C
Applicable standard	: IP52
External dimensions	: 150 (W)×110 (D)×240 (H) mm
Weight	: Approx. 2.85kg (including batteries)
Battery	: LR20×6 (DC 9V)
Continuous operating time	: 8h, min.(at 20°C)
Minimum operating voltage	: 6.0V
Input	
Input frequency range	: 0.1Hz to 5kHz (at THRU filter setting) 100Hz to 5kHz (at STD filter setting)
Input sensitivity	: 50 μV, max.
Signal to noise ratio	: 35dB, min.
Radio communication system	
Output frequency	: UHF under a radio approval
Modulation	: Direct frequency modulation
Output power	: 0.5W (500mW)
Output impedance	: 50Ω

● Specifications of Pick-up sensor

Type	: Piezoelectric pick-up sensor
Voltage sensitivity	: 2.5V/g
Applicable standard	: IP68
Drop resistance	: 1m (asphalt)
External dimensions	: φ30mm×130mm (H)
Weight	: 0.42kg
Power supply voltage	: 5V
Power supply system	: 3-wire
Output impedance	: 100Ω, max.

We reserve the right to change specifications without prior notice.



Instruments for the location of underground utilities and water leaks.

FUJI TECOM INC.

Head office : 2-20, Kanda Sakuma-cho, Chiyoda-ku, Tokyo 101-0025, Japan
TEL : +81-3-3862-3196 FAX : +81-3-3866-1979
Web Site : <http://www.fujitecom.com/>
E-Mail : kaigai@fujitecom.co.jp

Branch office : Sapporo, Sendai, Tokyo, Shinetsu, Nagoya, Osaka
Hiroshima, Kyushu

Technical development & training center : Niiza

AGENT