

# 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 | <b>Optional accessories consist of.-</b> |
| 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 .....          | 1 | • 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 : φ 30mm×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.



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