



# Portable Water Leak Detector User Manual

## One, Summarize

### 1.1 Application

Portable Water Leak Detector is a special instrument for searching and confirming the location of water pipe leak. It can also be used for other pressure pipe system. When the liquid in pipe overflows under pressure, noise can propagate along the pipe or spread to the ground through buried media, our instrument can confirm the location of leaks along the pipeline or above the ground surface.

Water Leak Detector uses low-power microprocessor and advanced special filter for digital processing of noise. The instrument picks up the noise and transforms it into electric signal through special designed broadband high sensitivity vibration sensor (Vibration pickup), after amplification and digital filtering processing, display on the LCD screen with two display.

### 1.2 Features

- Adjustable backlight LCD screen is convenient for night detection and observation.
- It has two display modes: real-time and spectrum.
- Small size, convenient to carry and measure.

### 1.3 Parameters

Model	AMLS-J
Measuring depth	1 meter
Frequency division (Center frequency)	100HZ、200HZ、400HZ、800HZ、1KHZ、1.5KHZ、 2KHZ
Screen	128×64 pixel, LCD display
Power	Lithium battery, 7.4V 2000mAh, rechargeable
Battery life	Working time after fully charged $\geq$ 15hours (Turn off backlight)
Operation temperature	-10°C ~ +50°C
Storage	-10°C ~ +70°C

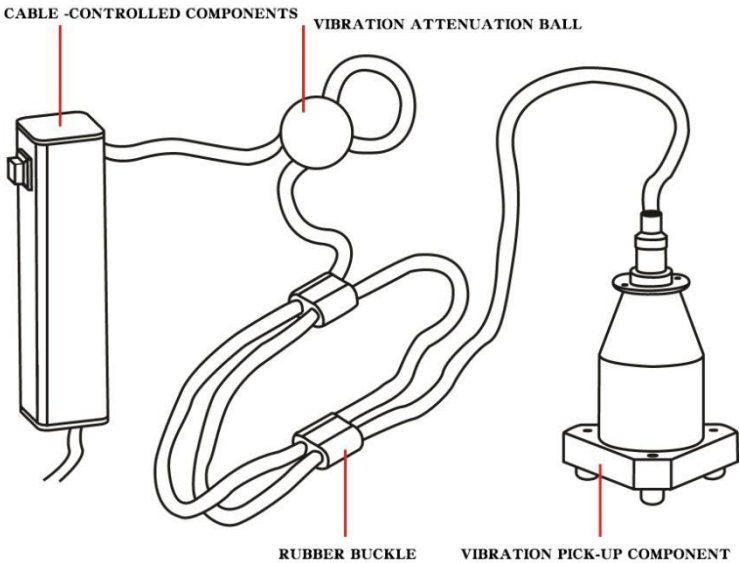
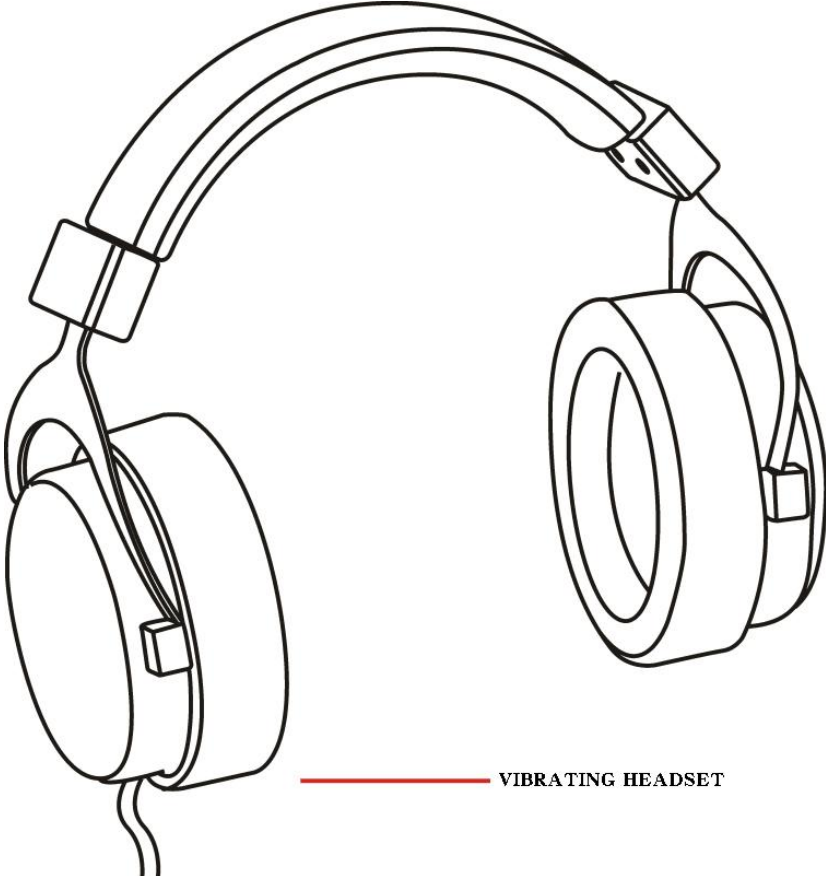
Size of instrument	(L×W×D): 171×81×34mm
Weight	3.142kg

## Two,Product Structure

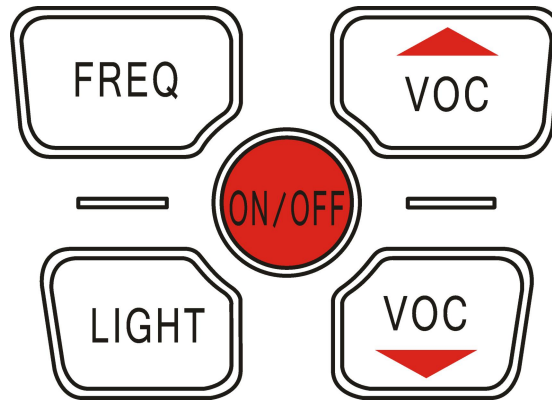
### 2.1 Outline structure



### 2.2 Accessories



## 2.3 LCD screen



- “FREQ”key: Mode switch (real-time mode, spectrum mode) .
- “LIGHT”key: Turns backlight on or off
- “VOC $\Delta$ ”key: Extended press this button to increase the audio display multiple, short press this button to enlarge the audio source.
- “VOC $\nabla$ ”key: Extended press this key to reduce the audio display multiple, short press this key to reduce the audio source.
- “ON/OFF”key: Turn the instrument on or off.

## Three, Operation

### 3.1 Prepare before using

- Please connect the headset and the vibration pickup assembly correctly (as shown in the picture above)

### 3.2 Operations and instructions in using

3.2.1 Wear headset, put the vibration pick-up component on the table or ground, turn on the instrument into the measuring interface, default into “Peak” mode, listen to the ambient noise, or feet rub the ground lightly around the vibration pick-up component, Listen to the sound of friction and observe the dynamics of the wave line graph on the display. if need to increase the sensitivity, press volume key “+”, otherwise press “-”.

When in using, must press the button on the Cable-controlled components all the time to received data

### 3.2.3

In the "spectrum" mode, the instrument has 7 frequencies, the center frequencies of these 7 frequencies are 100 HZ、200 HZ、400 HZ、800 HZ、1KHZ、1.5 KHZ、2 KHZ, in order to perform detailed frequency analysis on the leaking signal.

### 3.2.4

Charge:After using a period,LCD screen shows low power,need to be charged.The instrument is equipped with a dedicated charger and a dedicated charging jack on the side of the instrument. The red light on the charger is on, which means the charging state is started, and the light will turn green after charging (the charging time is about 3 hours).

#### **Four,Attention**

Water leak detector is the precise instrument,operators need be careful in using,avoid unnecessary collision, wet, scratches, pull off wiring, and so on.Please pay special attention that Vibration pick-up component mustn't be fallen from high place,protect the instrument,LCD screen and function key from hard pressing.Please put the parts in right place in the box after using,tidy up and avoid hard pressing when close the box.Keep it clean,avoid corrosion and excessive moisture or high temperature.

#### **Five,Pack list**

1	AMLS-J Main box	1 set
2	Cable-controlled components	1 set
3	Vibration pick-up component	1 set
4	Vibrating headset	1 set
5	Belt	1 set
6	Charger	1 set
7	Manual	1 piece
8	warranty card	1 piece
9	The key of aluminum box	1 set
10	Aluminum box	1 set
11	Desiccant	1 set