OPERATOR'S MANUAL



☐ **IRD-100**
Infrared Leak Detector
3-level sensitivity

☐ **IRD-200**
Infrared Leak Detector
4-level sensitivity+Alarm probe led

☐ **IRD-300**
Infrared Leak Detector
4-level sensitivity+Alarm probe led+UV led+ High-intensity led

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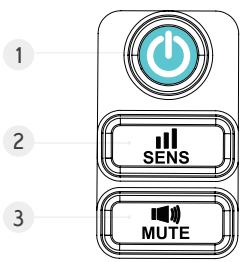
Introduction

Compact and rugged, the IRD series Infrared Refrigerant Leak Detector helps you find leaks fast in the field. The 10 year infrared (IR) sensor detects all HFC, HCFC, CFC, HFO, and blends.Including R-1234YF (HFO)、R-134A(HFC)、R-410A (HFC)、R-22 (HCFC)、R-407C (HFC)、R-507 (HFC)、R-12 (CFC)、R-404C (HFC)、R-32(HFC)、R454B(HFO).The IRD series products is designed to detect all SNAP approved refrigerant blends.

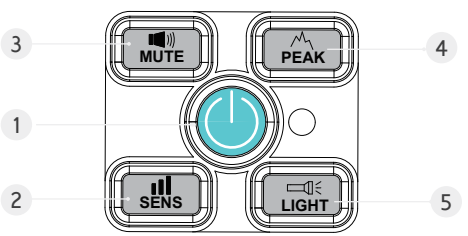
Features

- State-of-the-art infrared sensor
- Sensitivity multi level adjustment,2g/a(stationary);3g/a(in motion)
- 2.8-inch LCD color screen provides clear,easy-to-see information
- Flashing light tip,loud beeper and LCD bar graph
- Two high- intensity LED inspection light,unafraid of dark environments (only IRD-300)
- Three LED UV lights with 395-415 nm wave length is optimum for a/c dye fluorescence-(only IRD-300)
- Two rechargeable 18650 lithium batteries can be disassembled and replaced
- Audio mute mode

Control Panel



IRD-100/200



IRD-300

1 Power on/off 2 Sensitivity level 3 Audio mute

4 Peak 5 UV and Clear LED inspection lights

Operating instructions

1.**TURN ON:** Press the  button once to turn on and Keep the button pressed for 3 seconds to turn off.

2.**WARM UP:** The detector automatically starts heating the sensor.Warm-up time is usually 30 seconds. The detector is ready to begin searching for leaks.

3.**SEARCH:** Move the probe tip towards a suspected refrigerant leak at the rate of less than 2 inches (~50 mm) per second, no more than 1/4 inch (~5 mm) away from the suspected source.

4.If there is a leak, the LCD screen will display a three color trapezoidal diagram and the frequency of the alarm sound will increase. The flashing frequency of the front-end alarm probe light has increased (this is for all IRD-200/300).

Adjusting Sensitivity Levels

After preheating the leak detector for 30 seconds, the IRD-100 automatically defaults to the advanced sensitivity level, and the screen displays High and  .The IRD-200/300 is automatically set to the super sensitivity level by default, and the screen displays Super and  .

If the detector continues to sound an alarm while away from the suspected leak area, the sensitivity level can be adjusted so that the detector only sounds an alarm when the sensor is close to the leak source.

To change the sensitivity level, press the sensitivity level button, and the  will gradually decrease with each press, so as to cycle through the adjustment.

Audio Mute Function

To silence or mute the audio beep and alarm signal, press the mute button 

. To restore the audio sound ,press the mute button again.

Product Specifications

Maximum Sensitivity	0.1 oz/yr （3g/a） R134 inmotion
Sensor life	10 years typical
Response time	Instantaneous
Power supply	3.7VDC 5200mAh,repaceable
Battery life	16 hours continuous
Warm up time	30 seconds
Probe length	17 inches (43cm)
Detection Feedback	Red tipLED,LCD bar graph,beeper
Weight	0.99lbs (450g)
Warranty	1 year

Warnings

1.Please confirm that the filter element is clean and installed before testing, otherwise it may damage the sensor.
2.Before testing, please ensure that the battery level can maintain this measurement. If the battery level is low, please charge it in a timely manner.
3.It is strictly prohibited for the probe to come into contact with or measure charged objects.
4.It is strictly prohibited to suck water into the air inlet of the instrument probe.
5.When using UV LED ultraviolet lamps for testing, please pay attention to protecting your eyes and skin, and do not look directly at ultraviolet rays.
6.Please avoid inhaling refrigerant vapor during testing. High concentration refrigerants are harmful to human health and may cause coma or death.
7.When replacing the battery, ensure that the polarity of the battery is installed correctly. Batteries are hazardous materials and should be treated specially after disposal to avoid danger and environmental damage.

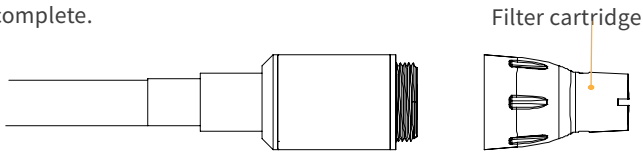
Maintenance

The filter element can filter out large particulate pollutants and water vapor, reducing product false alarms caused by excessive humidity; When the filter element is severely contaminated (black or clogged), please replace it promptly.

The specific replacement method is as follows:

1. Remove the filter element component counterclockwise

2.Install the new filter element component in a clockwise direction, and the replacement process is complete.



What’s Include

Infrared Leak Detector	X1
User Manual	X1
Charging Cable	X1
Filter Components	X1
Plastic case	X1

Warranty Policy

We guarantee that there will be no defects in materials and workmanship within one year from the date of purchase. This warranty applies to all repairable instruments, except for instruments that have been tampered with or damaged due to improper use (including unauthorized opening of equipment).

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