

LT-Sonic®

Plastic Water Pipe Locator & Water Leak Detector

FAQ (Frequently Asked Questions)

Powered by High Sense Solutions Inc. (Canada)



**HIGH
SENSE
SOLUTIONS Inc.**

HIGH SENSE SOLUTIONS Inc.

Manufacturer of NRW reduction & Mapping Solutions

www.highsensesolutions.ca

sales@highsensesolutions.ca

@high_Sense_Solutions

1. What is the LT-Sonic® Plastic Pipe Locator and Water Leak Detector?

LT-Sonic® is a professional-grade tool designed to **locate underground plastic water pipes** and **detect water leaks** in pressurized systems. It combines a **pulse wave generator** and **acoustic sensor** for accurate tracing of metallic and non-metallic pipelines such as **PVC, HDPE, and PE**.

2. What types of water pipes does LT-Sonic® work with?

The LT-Sonic® is engineered specifically for **non-metallic water pipes**. It works seamlessly on **HDPE, PVC, PE**, and similar plastic pipe materials without needing tracer wires or metallic conductors.

3. How does LT-Sonic® locate buried plastic pipes?

In **Pipe Location Mode**, the system generates **mechanical pulse waves** via water pressure, which are transmitted along the pipe. These waves are captured by a **super-sensitive geophone** and visualized on the mobile app for pipe tracing.

4. Can LT-Sonic® detect water leaks in pipelines?

Yes. In **Leak Detection Mode**, LT-Sonic® functions as a high-performance **acoustic leak detector**, picking up sound frequencies generated by water escaping under pressure. Users can monitor live audio spectrums and signal volume using the companion app.

5. Is there a mobile app for LT-Sonic®?

Absolutely. The LT-Sonic® app is available for both **Android and iOS** devices. Features include:

- **Real-time spectrogram display**
- **Signal strength visualization**
- **GPS-enabled reporting** (KML, KMZ, CSV)
- **Offline and online mapping support**
- **Easy GIS integration for utility asset management**



6. What are the key applications of LT-Sonic®?

- Locating **buried plastic water pipes** in urban and industrial areas
 - Detecting **leaks in underground water pipelines**
 - Supporting **Non-Revenue Water (NRW) reduction** initiatives
 - **Creating GIS-compatible reports** for water utilities and municipalities
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7. What are the benefits of using LT-Sonic®?

- **No tracer wire required** for plastic pipe detection
 - Combines two essential tools in one: **locator and leak detector**
 - Lightweight, **portable design with mobile app control**
 - **Cost-effective** solution for utilities and contractors
 - **GIS mapping and data reporting** capability for advanced utility management
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8. Is LT-Sonic® safe for all types of water systems?

Yes, but with caution. The pulse wave pressure is safe for most systems, but it's **recommended not to use LT-Sonic® continuously for over 30 minutes**. For older or fragile systems, always use the **pressure relief valve and damper hose**—especially within 15 meters of buildings.

9. Can LT-Sonic® be used on household service pipes?

Yes, LT-Sonic® works on short service lines. However, performance may be reduced if there is an **anti-vacuum or non-return valve**, as these can block pulse transmission. Please follow instruction and LT-Sonic User Guide.

10. What are the frequency ranges and filters available?

- **Pipe Location:** 1–200 Hz
- **Leak Detection:** 100–4000 Hz
- **Filter Options:**
 - High Pass: 100 Hz, 400 Hz
 - Low Pass: 1200 Hz, 4000 Hz
- Includes **filterROT® (smart filter rotation)** and **ALJ® (Automatic Leak Judgment)** for intelligent signal analysis. (only in Leak detection Mode)

11. What accessories come with LT-Sonic®?

Standard Accessories:

- Puls Generator
- Receiver (Ground Microphone)
- Aviation Headphone
- ½" Ball valve + brass Y strainer
- Pressure relief valves (3 and 6 bar)
- Hose connectors, elbows, and 10m car power cable
- 2 x 30 Cm Stainless steel contact rod
- USB Cable
- Hard-Case

Optional Accessories:

- Hose damper
 - 12V 9Ah battery kit in **NANUK waterproof case** with fast charger
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12. Does LT-Sonic® comply with international standards?

Yes. The LT-Sonic® is in the process of acquiring the following certifications:

- **FCC (USA)**
 - **CE (Europe)**
 - **ICES (Canada)**
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13. What is the warranty and service period?

LT-Sonic® includes a **1-year limited warranty**, and **5 years of after-sales service** supported directly by **High Sense Solutions Inc. (Canada)**.

14. Where is LT-Sonic® manufactured?

LT-Sonic® is proudly **made in Canada** using a combination of **domestic and international components**, designed by **High Sense Solutions Inc.**, experts in NRW Reduction, Mapping Solutions and Utility Instrument.

🔑 **Learn more at:** www.highsensesolutions.ca

✉️ **Contact us:** sales@highsensesolutions.ca

📱 **Instagram:** @high_sense_solutions

☎️ **Phone:** +1 905 597 2341



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