

COMPANY PROFILE

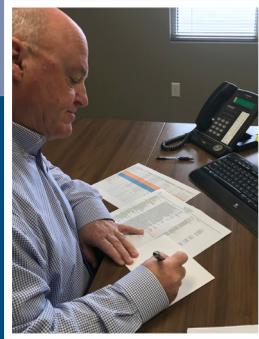


SubSurface Instruments, Inc.





Our Message to You



Joe Weiland

Welcome,

On behalf of our employees and our award-winning product lines, it is with great pleasure that we introduce to you the many facets of SubSurface Instruments, Inc. "SSI".

Founded in 1996, SSI has continually grown to become one of the premier manufacturers and distributors of locating equipment with sales to over 85 countries and 6 continents worldwide.

Enclosed, you will find an array of business and product information to be used as a ready reference guide as needed.

SSI's website (www.ssilocators.com) is also an excellent resource. Both the Product Showroom & Media Center headings on our website have numerous product demonstration videos in addition to marketing ads and banners that can be downloaded to assist in developing your Marketing & Sales Strategies.

We have also included contact information for our SSI professionals that are available for assistance anytime.

In closing, I would like to thank you once again for your interest in our company. Should you have any additional questions or concerns, feel free to contact me personally any time through my mobile phone: + 1 (920) 412.6150 or by email: joe.weiland@ssilocators.com

All our best,



Joe Weiland
International Sales Director

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Joe Weiland

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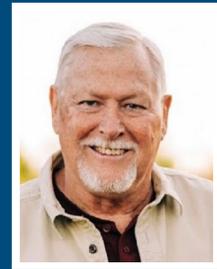
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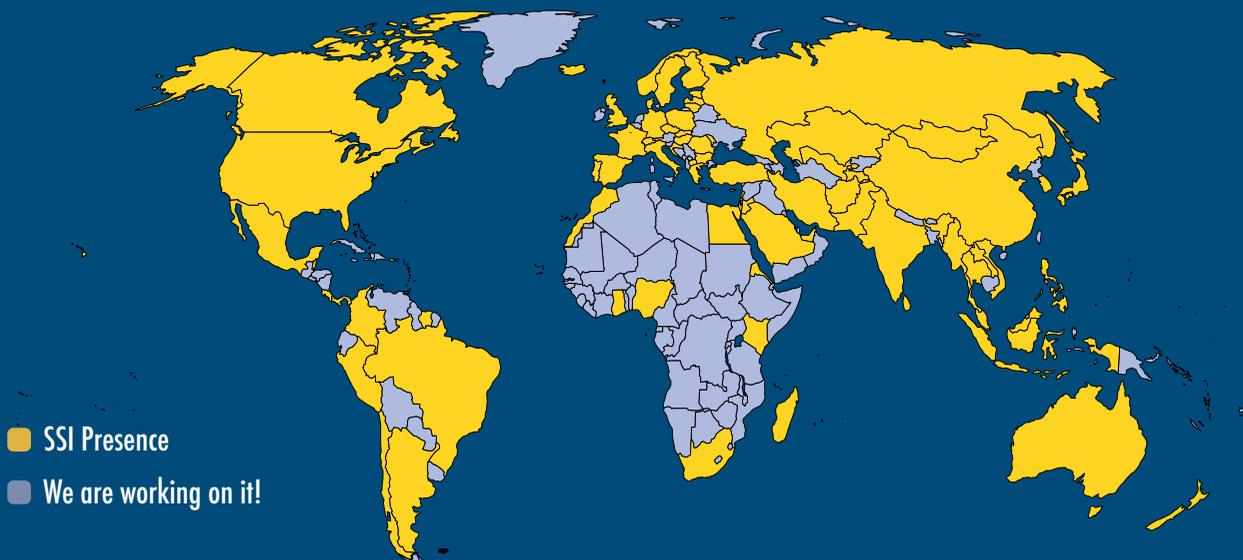
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Global Highlights

Throughout the years, we have created fantastic business relationships with more than 200 dealers in the United States and around the world in over 85 countries. Our commitment and dedication are reflected in the growing list of companies joining our effort to provide the best products in the market and the most satisfying customer service experience.



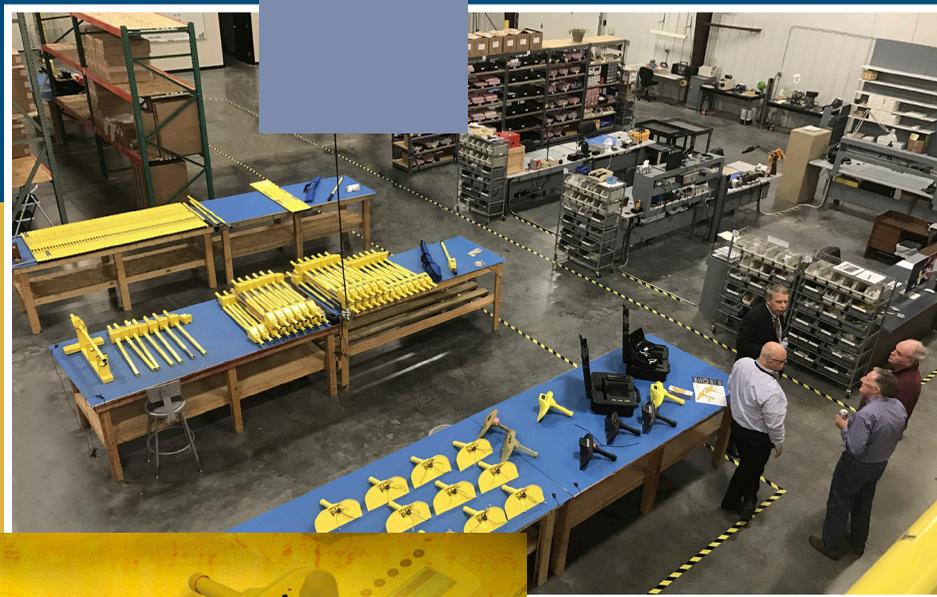
About Us

SubSurface Instruments, Inc.

An innovating force that engineers, manufactures, and distributes high-frequency and magnetic locators, pipe and cable locators, leak detectors, leak correlators, bore hole gradiometers, and specialty locators.

SSI's most advanced innovation, the AML or All Materials Locator, locates buried PVC pipes, PE Pipes, plastic, or nearly any other subsurface object more efficiently than ever before. Using patent-protected technology developed by SSI, the AML detects buried PVC pipes and other objects that other locators can't find.

SSI features a vast line of professional underground and underwater locator products for every need including surveying, construction, ordnance removal, excavation, and exploration. Our customers from the water, sewer, power, telecom, cable, gas, and petroleum industries trust on SSI's reliability and dependability to make crucial measurements in the world's most challenging conditions. SSI's products are proudly made in the U.S.A. and offer industry-leading warranties.



THE ADVANCED WAY TO FIND PVC/PE PIPES
FIND BURIED PVC/PE PIPES USING GPS & ADVANCED DIGITAL PATENTED TECHNOLOGY

AML PRO
SERIES
ALL MATERIALS LOCATOR

- ALL NEW DIGITAL TECHNOLOGY
- BACKLIT DISPLAY
- GPS PLOTTING & TRACKING
- NOISE ISOLATING HEADPHONES

[SEE THE AML PRO](#)

Our Products

SubSurface Instruments has continually grown to become one of the premier manufacturers and distributors of locating equipment with sales to over 85 countries on the six continents worldwide.

SSI features a vast line of professional underground and underwater locator products for every need including surveying, construction, ordnance removal, excavation and exploration. Our customers from the petroleum, water, sewer, power, telecom, cable and gas industries rely on SSI's reliability and dependability to make crucial measurements in the world's most challenging conditions. SubSurface Instruments, Inc's products are proudly made in the U.S.A. and offer an industry-leading warranty.



ALL MATERIALS LOCATORS

Patented Underground PVC/PE Pipe Detection

AML+⁺ SERIES

The Proven & Trusted Way To Find PVC Pipes, PE Pipes & Nearly Any Other SubSurface Object

The new and Improved AML+™ is based on a proven and patented scientific technology that utilizes a modulated, ultra-high radio frequency. It locates nearly any subsurface material with an edge including plastic, metal, wood, cable, and concrete. The AML is the trusted and most reliable all-material locator in the industry.



Includes impact resistant and IP68 rated case

- New Microprocessor Intelligence
- Patented Radio Wave Technology
- Durable ABS Housing (2 lbs)
- 9 Sensitivity Settings
- Headphones
- USB Powered Port
- Rechargeable Lithium Battery
- 3 Year Limited Warranty

Housing Color Options



AML^{PRO} SERIES

Find Buried PVC/PE Pipes Using GPS & Advanced Digital Patented Technology

The all-new AML PRO™ is a feature-rich scientific instrument that utilizes a modulated, ultra-high radio frequency to find differences in subsurface densities. It offers the best method for locating PVC & PE pipes and nearly any other object that has an edge. Redesigned specifically for the utility, water, gas, cable, and petroleum industries, the AML Pro allows professionals to locate objects faster, while maximizing job efficiencies.



Includes impact resistant and IP68 rated case

- New Microprocessor Intelligence
- Patented Radio Wave Technology
- Lightweight Construction (2.5 lbs.)
- Noise Isolating Headphones
- Rechargeable Lithium Battery
- Customizable User Preferences
- Powered Port
- Durable ABS Housing
- Back-lit Display
- GPS Plotting & Tracking
- 32 Sensitivity Settings
- Digital Leveling Meter
- Digital Targeting Indicator
- 3 Year Limited Warranty





MAGNETIC LOCATORS

On the market for over 25 years



ML-3 *Magnetic Locator Offering Durable, One-Handed Operation that's 100% Waterproof*

The ML-3 is one of SSI's most popular magnetic detection products, providing ergonomic, rugged, one-handed operation. The ML-3 offers unparalleled durability and is housed inside an aircraft-grade aluminum mono-tube. The ML-3 is digitally tuned and 100 percent waterproof. Rated IP68, and certified up to 250 feet - a first for the industry - this locator can be used in inclement weather and submerged conditions. Plus, its auto-zero feature allows the user to "cancel" ambient magnetics or magnetic gradient in the environment.



Soft Carrying Case
Included with every unit.



ML-3L *Magnetic Locator Offering Durable, One-Handed Operation that's 100% Waterproof*

Featuring the same technological advances as the ML-3. At 55" long, the ML-3L is the longest magnetic locator on the market. It allows the operator to make the biggest sweeps possible without compromising accuracy or functionality.

It is used worldwide by many UXO operations to identify minefield ordnances or other potential dangers. The ML-3 is digitally tuned and 100 percent waterproof, IP68 certified up to 250 feet.



ML-1 *Magnetic Locator with Simple, One-Handed Operation*

Whether you're seeking corner markers (iron or steel), well casings, steel drums or septic tank handles, this is the "go-to" magnetic locator. The ML series offers a simple, one-handed operation with an easy-to-learn keypad and audio confirmation. Unlike most of our competitors, the ML-1 features strong mono-tube construction, providing structural integrity from top to bottom.



Soft Carrying Case
Included with every unit.



ML-1M *Magnetic Locator Technology with Digital Meter*

In addition to the features of the original ML-1, the ML-1M is metered, offering you added features without added complexity. The digital meter provides for visual signal strength, polarity indication, gain setting plus battery life display.

OPTIONAL ACCESSORIES

All You Need to Continue Locating With Confidence



ML-1 Hard Carrying Case

Hard polymer case for ML-1 and ML-1M
dimensions: 5.5" x 39"
Color: Tan



9v Battery Holder

Battery Holder for ML-3 Magnetic Locator and
for AML Pro and AML Plus models,
(3) 9v batteries (included)



ML-3 Hard Carrying Case

Aluminum Case with a shock proof inner
shield for ML-3 Units
Color: Black
ML-3: 2" x 42.5"
ML-3L: 2" x 57"



PIPE AND CABLE LOCATORS

Durable Utility, Pipe and Cable Locators



PL-VF10R Li-Ion Batt. *Multi-Frequency Locator that features rechargeable batteries and a 10W power output*
The PL-VF10 offers SSI's most sophisticated technology. This locating system will meet the demands of any locating task. Frequencies and operational modes may be added or deleted on demand to suit the user's locating needs. It is equipped with a powerful 10W transmitter and optional 1/2 and 1/4 power outputs. Our advanced technology creates a remote link between the Transmitter and Receiver. This is the only tool you'll need in a variety of locating scenarios with the advantage of lower weight due to a convenient set of Li-Ion Battery packs for the receiver and transmitter. This will allow you to work for over 40 hours (depending on load, frequency and power settings) without having to replace batteries.



PL-VF10 Alkaline Batt. *Multi-Frequency Locator with a variety of locating modes and a 10W power output*
The PL-VF10 Locating System will meet the demands of any locate task. Frequencies and operational modes may be added or deleted on demand to suit the user's locating needs. It is equipped with a powerful 10W transmitter and optional 1/2 and 1/4 power outputs. Our advanced technology creates a remote link between the Transmitter and Receiver. This is the only tool you need in a variety of locating scenarios. The standard setup comes with 6 "C" batteries for the Receiver and 12 "D" batteries for the Transmitter.



PL-VF3 *Equipped with a wide variety of locating modes and a 3W power output*
Simple, accurate, and affordable, the PL-VF3 Locating System will meet the demands of any locate task. This locator is designed for the locating professional, but it is simple enough to be used by anyone needing to find underground utilities. Our innovative technology creates a remote link between the transmitter and receiver. Users can control the transmitter's output power and frequency right from the hand-held receiver, eliminating the need to walk back and forth between devices. The standard setup comes with 6 "C" batteries for the Receiver and 8 "C" batteries for the Transmitter.



PL-TT *The dependable, Affordable and Rugged solution for the Locating Professional*
The PL-TT has several operating modes, including Digital Depth and Magnetic Locating. Users can rest assured that the PL-TT dependability is not only driven by the internal technology, but also by its rugged construction that is built to last with a carbon fiber finish housing and sealed against the weather. The basic setup comes with 6 "AA" and 8 "C" alkaline batteries.



OPTIONAL ACCESSORIES

Improve your productivity and take advantage of new technology



Wireless Inductive Clamp

Self-contained, stand-alone transmitting inductive coupler. 3 frequencies, High & Low Power Outputs, rechargeable batteries. 4.2" & 6.5" Diameter options



Inductive Coupler 4" I.D.

Apply signal to live cables. 4" I.D. - Operational Frequency Range 8kHz to 82 kHz.



A-Frame (Ground Fault Locator)

Works Independent from the receiver. Detects both core-to-ground faults & sheath-to-ground faults.



512 Hz Sonde

3.5" long x 0.80" diameter sonde for PL-VF uses (1) AAA battery (included) Depth: 10 feet in cast iron.



Inductive Clamp & Cable

4" opening Clamp with a 16' cable available in 2 types of connectors:



PL-G compatible



PL-2000 compatible



Direct Connect Leads

9' long cable with DIN connector for Pipe and Cable Locators



Padded Carrying Case

Soft carrying case for PL-2000 and PL-G Locators, color black with yellow logo.



Ground Stakes

Metal conductive stake for Pipe and Cable Locators



Tracker 250

Apply current to the copper wire. 250' and 6mm diameter rod, coated with polypropylene to provide low friction and high abrasion resistance.



Tracker 650

Apply current to the copper wire. 650' and 6mm diameter rod, coated with polypropylene to provide low friction and high abrasion resistance.



PL-VF Clips, Direct Connect

Direct Connect Leads for PL-VF Series larger clips, sold as an accessory.



PL-VF Clips, Direct Connect

Direct Connect Leads for PL-VF Series included with the unit.



WATER LEAK DETECTORS

Easy-To-Use Water Leak Detectors Effectively Screen Outside Noise.



LD-7 *Economical Water Leak Detection*

Designed for all water leak detection applications, including leak surveys and leak pinpointing. Use the magnetic base or contact rod for leak surveys at hydrants, valves, or meters.

- Compact amplifier with mute switch fits inside the user's hand.
- Designed for all water leak detection applications, including leak surveys and leak pinpointing.
- Extremely compact and lightweight. Easily fits inside the cab of a truck.



LD-8 *Simple, yet Sensitive Water Leak Detection*

Designed specifically for "water leak surveys" and used by water departments, districts, local governments, and private agencies concerned about "non-revenue water losses."

- Amplifier with push-button ON/OFF switch, volume control, two-digit display of loudness, and three-range sensitivity switch.
- Notch filters reduce A/C hum from transformers, power lines, etc.
- Simple and compact, great for leak surveys.



LD-12 *The Professionals Water Leak Detector*

An industry standard for the Water Utility industry. The LD-12 water leak detector is easy-to-use, featuring six filters that screen outside noise and zero in on water leaks.

- Considered a top choice leak detection locator.
- Large meter display, allows the user to pinpoint the exact location.
- Six selectable filters, split into three "low side" filters and three "high side" filters.
- High-sensitivity ground microphone and low "electronic noise" amplifier combine to offer the best quality sound leak detection.
- Ground plate, magnetic base, and contact rods as accessories for pinpointing leaks.
- David Clark headphones, rated #1 in the industry.

Water/ shock proof Carrying Case
included with every unit.





WATER LEAK DETECTORS

Easy-To-Use Water Leak Detectors Effectively Screen Outside Noise.

LD-15 *Highly Sensitive Leak Survey Technology*

The LD-15 Professionals Leak Survey Instrument offers the highest sensitivity and the best audio quality ever offered in an acoustic listening device by SSI.

- Simple and quick way of surveying for water leaks.
- High-sensitivity sensor, extra strong and waterproof (submersible).
- Survey for leaks at hydrants, valves, and meters.
- Use the high filter range for water leak surveying. Use the low filter range for water leak pinpointing.
- David Clark headphones, rated #1 in the industry.



Water/ shock proof Carrying Case included with every unit.

LD-18 *Advanced Digital Leak Survey Technology*

The new LD-18 Digital Water Leak Detector is the first water leak detecting instrument to offer automatic noise reduction from intermittent interfering noises, such as passing vehicles, people talking, and pedestrian footsteps.

- All-digital amplifier with automatic noise reduction of environmental sounds, high and low filters, storage and graphing of leak noises at different locations on a pipe.
- Uses bar graph and numeric display of sound loudness, USB connection, and backlight.
- Five high-frequency filters, three low-frequency filters (plus low filter OFF), and 2 notch filters (plus notch filter OFF) to remove continuous interfering noises.
- David Clark headphones, rated #1 in the industry.



AQUA TRAC™

WATER LEAK DETECTORS

Advanced Acoustic Technology for Detecting Water Leaks in Underground Pipes

The AquaTrac™ is specially designed to detect water leaks on buried pipes & conducts. This device will detect water leaks through its highly sensitive microphone and the advanced technology of its control board.

AquaTrac™ is designed for years of field use without the need for annual or periodic calibration and service.

The basic principle of the Water Leak Detector's operation is as follows:

The microphone/sensor is placed over the ground surface or directly over the pipe, the sound created by the water leak frequency is detected and interpreted by the Control Board and displayed on the screen for the operator to determine the course of action. The AquaTrac™ is the perfect tool for Plumbers and Contractors due to its easy operation, affordability, and accurate measurement display.

The AquaTrac™ PL: Leak detector system with standard headphones.

The AquaTrac™ MU: Leak detector system with high quality David Clark headphones.

- Standard predetermined Filters
- Customizable filters
- Piezzo professional microphone
- Li-Ion Rechargeable Battery
- Bright and Clear LCD Screen
- High Quality Headphones
- 5 Year Warranty

Engineered Grade Plastic (EGP) Housing



Includes impact resistant and waterproof carrying case

David Clark headphones with AquaTrac™ MU



PIPE INSPECTION CAMERA SYSTEMS

Fast Setup and High-Quality Output Inspection Camera Systems



IC-6 *Excellent Solution for Small Spaces Inspections*

The IC-6 Pipe Inspection Camera System features a 0.24" (6 mm) camera, mounted in a rugged stainless steel IP66 certified enclosure. 4 LED lights mounted on the front of a camera with a viewing angle of 60°, the IC-6 Inspection Camera System is perfect for small pipes, ducts, tanks, etc. It is used in a variety of professional fields, municipalities, electricity, communications, as well as in disaster assessments and recovery rescues. The camera is permanently attached to a fiberglass rod with 131' (40m) of length and 0.2" (5mm) of diameter.



IC-12 *Lightweight, High-Quality Video, Pipe Inspection Camera System*

The IC-12 Pipe Inspection Camera System features a 0.47" (12mm) camera, mounted on a rugged stainless steel IP68 certified enclosure and displays a 65° viewing angle with excellent quality video and sharp images. Six LED lights mounted on the front of the camera provide great illumination for inspection or for creating the perfect conditions to snap a photo or create a video to show the results to your clients. Designed to follow the corners of pipes and conduits, the camera head enclosure has a coil that bends accordingly, giving it the flexibility to move smoothly inside of the pipe. Install the skid on the head of the camera to improve visibility as well as to protect the camera from sharp corners and other objects inside of the pipes you are inspecting.



IC-23 *Quick and Easy Camera Inspection System*

The IC-23 Pipe Inspection Camera System features a 0.90" (23 mm) camera, mounted in a rugged stainless steel IP68 certified enclosure. With 12 LED lights mounted on the front of the camera and equipped with a 512 Hz sonde, it can be easily picked up with a Pipe and Cable Receiver (not included). Its 9" monitor displays a very crisp and clear video image. All the settings are accessible through the control box and you can store data by inserting an SD Card in the memory card slot. The system runs with a rechargeable battery installed in the control box. A water and shock-resistant case is included that allows you to store a fiberglass rod wheel of 164' (50m) or less.

OPTIONAL ACCESSORIES

Variety of Accessories and Replacement Parts



6 mm Camera (0.24")

Video resolution of 720 x 480 dpi with 4 LED lights mounted on the camera head with 60° viewing angle, inside of a rugged stainless steel enclosure.



23 mm Camera (0.90")

Video resolution of 720 x 480 dpi with a 512 Hz sonde and 12 LED lights mounted on the camera head with 120° viewing angle, inside of a stainless steel enclosure.



12 mm Camera (0.47")

Video resolution of 720 x 480 dpi with a 512 Hz sonde and 6 LED lights mounted on the camera head with 65° viewing angle, inside of a stainless steel enclosure.



28 mm Camera *Self-Leveling (1.1")

Video resolution of 720 x 480 dpi with a 512 Hz sonde and 12 LED lights mounted on the self-leveling camera head with 120° viewing angle, inside of a rugged stainless steel enclosure.



17 mm Camera (0.67")

Video resolution of 720 x 480 dpi with a 512 Hz sonde and 6 LED lights mounted on the camera head with 120° viewing angle, inside of a stainless steel enclosure.



40 mm Camera *Self-Leveling (1.57")

Video resolution of 720 x 480 dpi with a 512 Hz sonde and 12 LED lights mounted on the self-leveling camera head with 105° viewing angle, inside of a rugged stainless steel enclosure.



PIPE INSPECTION CAMERA SYSTEMS

Fast Setup and High-Quality Output Inspection Camera Systems



IC-28 Self-Leveling Camera Inspection System

The IC-28 Pipe Inspection Camera System features a 1.1" (28 mm) self-leveling camera, mounted on a rugged stainless steel IP68 certified enclosure, with 12 LED lights mounted on the front of the camera and equipped with a 512 Hz sonde giving the user the capability of finding the location of the camera with a Pipe and Cable Receiver (not included). Its 9" monitor displays a very crisp and clear video image. All the settings are accessible through the control box and you can store data by inserting an SD Card in the memory card slot. The system runs with a rechargeable battery installed in the control box. A water and shock-resistant carrying case is included with it. You can use the included keyboard to record notes along with your videos for further review.



IC-40 Self-Leveling Camera Inspection System

The IC-40 Pipe Inspection Camera System features a 1.57 (40 mm) self-leveling camera, mounted on a rugged stainless steel IP68 certified enclosure, including 30 LED lights mounted on the front of the camera enclosure. Equipped with a 512 Hz sonde it gives the user the capability of finding the location of the camera with a Pipe and Cable Receiver (not included). Its 9" monitor displays a very crisp and clear video image. All the settings are accessible through the control box and you can store data by inserting an SD Card in the memory card slot. The system runs with a rechargeable battery installed in the control box. A water and shock resistant carrying case is included with the system. A variety of skids are available to protect the camera head and to allow it to navigate easily inside of the pipe giving you a better viewing angle as well.

OPTIONAL ACCESSORIES

Variety of Accessories and Replacement Parts



30m - 40m - 50m Wheels

98.3'-131'-164' wheels. Metal frame enclosure with a fiberglass rod of 0.19" (5 mm) diameter.



60m - 80m Wheels

197'-263' wheels. Metal frame enclosure with carrying handle. Fiberglass rod of 0.27" (7 mm) diameter. Meter counter and handle brake.



60m Wheel

197' wheel. Metal frame enclosure with carrying handle, big rolling wheels for extra mobility and easy transport. Featuring a 0.35" (9 mm) diameter fiberglass rod.



512 Hz Sondes

Standard sewer sondes attach to any SSI cable wheel. Require (2) A76 batteries (included).
Regular: 2.125" x 0.875"
Mini: 1.875" x 0.625"



Camera Skids

Variety of sizes for the different camera heads. Attach to the camera for added protection and to center the video image on the screen.



Universal Skid & LED light

Spring loaded, adjustable legs for pipe sizes from 5.5" to 15.7". Rolling wheels provide easier mobility.
LED rim with a rechargeable waterproof battery, to be used with the Universal Skid.



SPECIALTY LOCATORS

Advanced Technology for Specific Needs



MUL (*Magnetic Underwater Locator*)

Durable Magnetic Detector Finds Ferrous Metal Immersed in over a 1,000' of Water

Find ferrous metal immersed in depths as shallow as 10' of water to depths over 1,000'. The two sensor core system is housed inside a corrosion-proof, machined titanium tube for superior durability and strength. No other underwater locator can go deeper, and its longer sensor length allows for convenient boat towing when it is mounted into a custom-made carrying sled (not included).

Cable is not included
Custom lengths available



BHG (*Bore Hole Gradiometer*)

Locates Large Ferrous Metal Objects by being Lowered into Drilled Boring Holes

The Bore Hole Gradiometer (BHG) finds the presence of any ferrous metal in a radius of 10 feet in the ground. Featuring two sensors, it works similarly to the magnetic locator and can also be used in water, making it ideal for construction, utility companies, and bridge builders.

Cable is not included
Custom lengths available



OPTIONAL ACCESSORIES

High quality materials and precision built accessories



MUL Titanium Sensor

Tapered nose titanium sensor, longer dimension (1.625"d x 34.875"L (4.13cm x 88.58cm)) for diving or boat towing.



BHG Titanium Sensor

Durable and strong, Bull-nosed titanium sensor, dimension: 1.625"d x 17.5"L (4.13cm x 44.45cm).



30', 50', 100' Sensor Cable

High quality, water resistant Carolprene® 4 conductor, 18 AWG, 600 volt coated cable. With Amphenol® circular mil spec connectors. Custom lengths available.

Our Website

www.ssilocators.com

Through our website, we keep our dealers up to date with the latest product information. On each product page, we have displayed everything you need to promote, explain and operate our equipment. Please review all the information available to you on our website or contact us and we'll help you navigate through the site.

A complete data base of our dealers throughout the world

Access to information about our products and accessories

Mon - Fri: 7:30AM to 4:30PM | 1230 Flight-Way Dr. De Pere, WI 54115

Select Language

SUBSURFACE INSTRUMENTS, INC. Proudly Made in the USA
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GUARANTEED TOUGH 4 MODELS FOR EVERY NEED
INDUSTRIAL GRADE MODELS • EASY ONE-HANDED OPERATION

ML SERIES MAGNETIC LOCATORS [SEE THE ML SERIES](#)

PVC PIPE LOCATORS		MAGNETIC LOCATORS			PIPE & CABLE LOCATORS		LEAK DETECTORS		
All Material Locator Pro (AML-Pro)	All Material Locator Plus (AML-+)	ML-3-Short ML-3-Long	ML-1 ML-1M	Magnetic Underwater Locator (MUJ-1)	Bore Hole Gradiometer (BHG)	PL-VF10R PL-VF10 PL-VF3 PL-G	PL-TT PL-2000 PL-G	LD-7 LD-8 LD-12	LD-15 LD-18 Aqua Trac

SUBSURFACE INSTRUMENTS: ADVANCED LOCATION TECHNOLOGY
Founded in 1996, SSI has continually grown to become one of the premier manufacturer and distributor of locating equipment with sales to over 80 countries and 6 continents worldwide.

INTERESTED IN OUR PRODUCTS? VIEW OUR CATALOG

PATENTED TECHNOLOGY
An innovating force that engineers, manufactures and distributes high-frequency and magnetic locators, pipe and cable locators, leak detectors, leak correlators, borehole gradiometers, pipe inspection cameras, ground fault locators and specialty locators.

AWARD WINNING PROJECTS
SSI's most recent innovation, the AML or All Materials Locator, locates buried PVC pipes, PE Pipes, plastic or nearly any other subsurface object more efficiently than ever before.

RELIABLE SERVICE
Our customers from the water, sewer, power, telecom, cable and gas utilities rely on SSI's reliability and dependability to make crucial measurements in the world's most challenging conditions.



Scan with your smartphone to visit our website

Marketing Material, Hi-Res Images, Logos, Etc.

Data Sheets Library

Specifications & Technical information

Datasheets

The next section has SubSurface Instruments, Inc. products datasheets, use this as a quick reference to look for our products information.

In these datasheets, you'll find our product's features, technical details in addition to small explanations about the usage and possible applications in the field.

The section is organized by categories, you'll find a table of contents on page 17 of this book, please feel free to go through all of them and make any suggestions or requests for more information.

If you have any questions, you need tutorial videos or quick guides about our products, please contact us, we will be happy to provide you with all the tools you need to better serve your customers or to help you make that purchasing decision.

Email: info@ssilocators.com

Phone: +1 (920) 347.1788

Web: ssilocators.com



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INTRODUCING THE TECHNOLOGICALLY ADVANCED AML™ SERIES

Both the AML Pro & AML+ are available in 3 optional housing colors.



Yellow



Black

Carbon
Fiber

AML+⁺_{SERIES}

- > Lightweight Construction (2.0 lbs.)
- > Durable ABS Housing
- > New Microprocessor Intelligence
- > Patented Radio Wave Technology
- > 9 Sensitivity Settings
- > Headphones
- > USB Powered Port
- > Rechargeable Lithium Battery
- > 3 Year Limited Warranty

The All-New AML PRO™ & AML+™ Series “All Material Locators” are scientific instruments that utilize modulated, ultra-high radio frequencies to find differences in subsurface densities. This offers the best method for locating PVC & PE pipes and nearly any other subsurface object that has an edge. Utilizing technology that was developed for lunar exploration, the AML will locate subsurface materials indiscriminately - plastic, metal, wood, cable or pipe. Unlike the deficiencies of GPR (Ground Penetrating Radar), the AML will work in clay, wet soil, snow or even standing water. Redesigned specifically for the utility, water, gas and cable industries, the AML allows professionals to locate objects faster, while maximizing job efficiency.

REFINED.
PROVEN.
TRUSTED.



AML^{PRO} SERIES

INCLUDES ALL AML+ FEATURES AND:

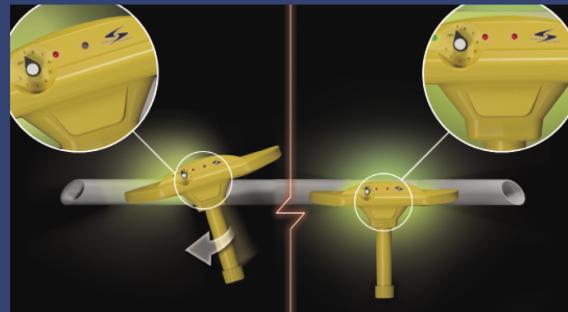
- > Lightweight Construction (2.5 lbs.)
- > Durable ABS Housing
- > Backlit Display
- > GPS Plotting & Tracking
- > 32 Sensitivity Settings
- > Digital Leveling Meter
- > Digital Targeting Indicator
- > Noise Isolating Headphones
- > Customizable User Preferences

UNDERSTANDING HOW ULTRA-HIGH FREQUENCY (UHF) RADIO WAVES WORK

The key to how the AML works is to understand how its ground-penetrating UHF radio waves detect PVC pipes, PE pipes and other objects.



Holding the AML's handle parallel to the ground, scan the area of the undetectable buried object until one or both of the target indicators activate.



While the left or right target indicator is activated, rotate the AML until both LED target indicators light simultaneously, triggering the AML's tone and laser marker. This alert indicates that the pipe or object has been detected and that the AML is now parallel with the underground object.



With the AML parallel with the pipe or underground object, you can now scan the entire length of the object's edge. As an alternative, utilize the "W" method of scanning by sweeping the area in a back-and-forth "W" motion, marking the object's location and run direction as it is tracked.

AML PRO SERIES

Patented Radio-Frequency Technology
Proudly Made in the USA
by SubSurface Instruments, Inc.
FCC, IC, UE/CE Approved

EASY BATTERY ACCESS

Powered by a convenient 9-volt battery system, the AML features long, powerful on-the-job usage between power source changes.

ERGONOMIC HANDLE

An ergonomic handle provides a firm grip in any weather condition.



HEADPHONE JACK

A convenient headphone jack allows the user to listen to audio signals with premium noise isolating headphones (included).

LIGHTWEIGHT, DURABLE CONSTRUCTION

The AML is constructed from lightweight, shock-resistant materials that make it easy to use and handle throughout the work day.



DURABLE CARRYING CASE

The AML is a highly technical scientific instrument. To protect it, an impact resistant and water proof carrying case with a shock-absorbent foam housing protects your AML while in transit or on the job site.

RECHARGEABLE LITHIUM BATTERY KIT

Use it as an auxiliary long lasting power source.



RIGHT SIDE & LEFT SIDE TARGET INDICATORS

The LED indicators provide a visual signal when an undetectable object has been located. Individual left and right LED lights, as well as the digital target indicators provide the user with an accurate reading of the subsurface objects being scanned, allowing them to be marked and tracked efficiently.

MULTI-BUTTON PANEL

Durable tactile membrane buttons control the unit's power source and menu options. Once the unit is on, the user can navigate its scrolling menu to adjust sensitivity and operational settings displayed on the LCD screen.

ULTRA-HIGH FREQUENCY (UHF) RADIO WAVE TRANSMITTER

Using advanced circuit board technology, powerful 2.45 GHz ground penetrating, UHF radio waves locate PVC pipes easily. Man-made objects with a straight edge create a change in density or permeability from surrounding materials, which causes refracted radio waves to be detected by the AML.

DIGITAL BACKLIT DISPLAY

A high contrast, backlit digital display provides superior visibility in both direct sunlight and dark environments.

LASER TARGET INDICATOR

An easy-to-see laser indicator highlights the located object's position on the ground when it has been detected.

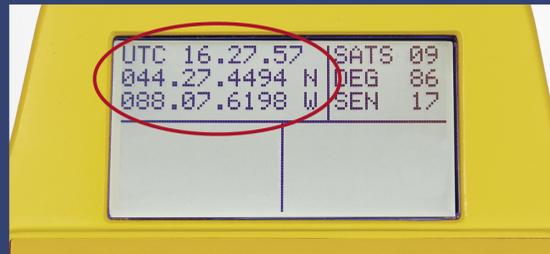
ULTRA-HIGH FREQUENCY (UHF) RADIO WAVE RECEIVERS

Highly sensitive dual left and right receivers intercept frequency refractions set off by the edges of buried PVC pipes. When the unit is positioned parallel to a pipe, both the left and right target indicators are activated, allowing the user to identify the object's run direction.



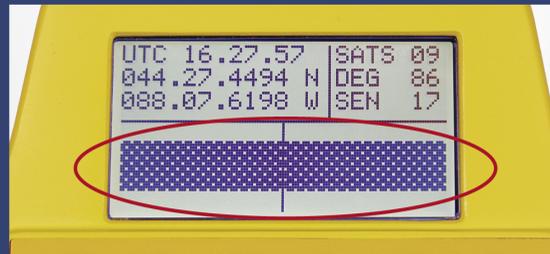
SEE VIDEOS, PHOTOS & ADDITIONAL INFORMATION ABOUT THE AML BY SCANNING OUR QR CODE.

SEE THE ENTIRE TECHNOLOGICALLY ADVANCED SSI LOCATOR PRODUCT LINE AT WWW.SSILOCATORS.COM



ADVANCED GPS MAPPING

Map your coordinates on the job site with advanced GPS tracking and export to other devices via data transfer through the USB mini port.



DIGITAL TARGET INDICATOR

Increase the accuracy and speed of finding sub surface objects. A digital left and right meter hones the operator to the exact location of an underground object so it can be marked and tracked efficiently.



SENSITIVITY LEVEL

Designed to provide the highest degree of accuracy available, the AML Pro has 32 individual sensitivity settings that allows the user to zero out unwanted feedback and focus directly on the object itself.



BUILT-IN USB MINI PORT

Powerful USB flexibility allows users to export GPS coordinates, import the latest firmware updates and connect to the auxiliary lithium battery source.

WHAT IS INCLUDED IN YOUR CASE?

- (1) AML Unit
- 9 volt Battery Packs:
 - AML PRO: (2) Battery Packs (Each Housing (3) 9-Volt Alkaline Batteries)
 - AML+: (1) Battery Pack (Housing (3) 9-Volt Alkaline Batteries)
- (1) Auxiliary Rechargeable Lithium Battery Kit
- (1) Pair of Headphones
 - (AML PRO includes Noise Isolating Headphones)
- (1) Foam-Insulated Hard Case
- (1) User's Guide



AML SERIES SPECIFICATIONS

Physical Dimensions

	AML PRO	AML+
Height.....	13 in. / 33.0cm.....	11 in. / 27.9cm
Length	14 in. / 35.6cm.....	14 in. / 35.6cm
Width.....	6 in. / 15.2cm.....	6 in. / 15.2cm
Weight.....	2.5 lbs. / 1.13kg.....	2 lbs. / 0.90kg

Power Specifications

Batteries.....	(3) 9-Volt Alkalines.....	(3) 9-Volt Alkalines
Battery Packs	2	1
Est. Alkaline Battery Life	typical life: 25 hours.....	typical life: 40 hours
min. life:.....	3 hours	min. life: 5 hours
Auxiliary Lithium Battery Pack	typical life: 80 hours.....	typical life: 100 hours
min. life:.....	20+ hours.....	min. life: 25+ hours
Transmitter Frequency.....	2.45 GHz	2.45 GHz

Shipping Dimensions (w/ Carrying Case)

BOTH UNITS

Weight.....	17 lbs. / 7.7kg
Cube.....	20" x 17" x 8" / 50.8cm x 43.18cm x 20.32cm



ML-1 & ML-1M MAGNETIC LOCATORS



KEY FEATURES

- 1 Low Battery Warning
(when only 5% battery life left)
- 2 Speaker
- 3 On/Off & Volume Control
- 4 Gain Up
- 5 Gain Down
- 6 - and + Signal Strength

FEATURES

- ▷ Detection of ferrous metal objects, including property pins and markers, live wires, weapons, devices and other objects.
- ▷ Easy and simple, one handed operation – 3 keypad switches:
 - ▷ On/Off button: Turns unit on or off.
 - ▷ Gain Up button: Increases the locating sensitivity of the unit.
 - ▷ Gain Down button: Decreases the locating sensitivity of the unit.
- ▷ Strong aluminum "MonoTube" construction from the tip through the end of the handle. The ABS injection molded electronics compartment provides the best structural integrity in a hand-held locator.
- ▷ Lightweight - just over 2 pounds, including batteries.
- ▷ Volume built into the on/off key: just hold down the key while it cycles through settings.
- ▷ Microprocessor remembers the volume and gain settings from the last time the unit was on.
- ▷ Battery compartment separated from electronic components and circuit board.
 - ▷ No exposing electronics to replace the batteries.
- ▷ Non-metered (ML-1), and Metered (ML-1M) versions designed to look, feel, and operate exactly the same.
- ▷ The metered version (ML-1M) adds features without complexity. No learning curve between units.
- ▷ Detection of buried ferrous metal objects at depths up to 10':
 - ▷ Handgun: 1' to 2'
 - ▷ 175mm projectile: 4' to 5'
 - ▷ Water Shutoff valve: 6' to 10'
- ▷ Soft-pack carrying case included. Hard case optional.
- ▷ Over 5000 ML-1M units in Afghanistan used for detection of improvised explosive devises (IEDs) and Unexploded Ordnances (UXOs).
- ▷ 7 year warranty.

SPECIFICATIONS

- ▷ **Overall length:** Aluminum tube is 39" (98.4cm). The electronics compartment is 3.25" (8.25cm) tapered to 2.5" (6.4cm) wide x 4.5" (10.15cm) deep tapered to 2.5" (6.4cm).
- ▷ **Weight:** 2lbs.(0.9kg) including batteries.
- ▷ **Battery Life:** Under normal operation, approximately ±30 hours.
- ▷ **Input Power:** Two standard 9-volt alkaline batteries in custom molded bottom compartment.
- ▷ **Function:** Electronic keypad that clicks when a key is depressed.
- ▷ **Audio:** A real speaker is in the front panel providing outstanding volume. The speaker pitch increases in frequency proportional to field intensity.
- ▷ **Visual:** ML-1M model has LCD display with bar graph indicating relative strength of signal and polarity. Flashing battery symbol indicates low battery.
- ▷ **Construction:**
 - ▷ Exterior Sensor Tube made of aircraft grade aluminum.
 - ▷ Electronic Compartment made of ABS injection molded plastic.
- ▷ **MADE IN USA.** Built and serviced entirely in Wisconsin.



Includes:

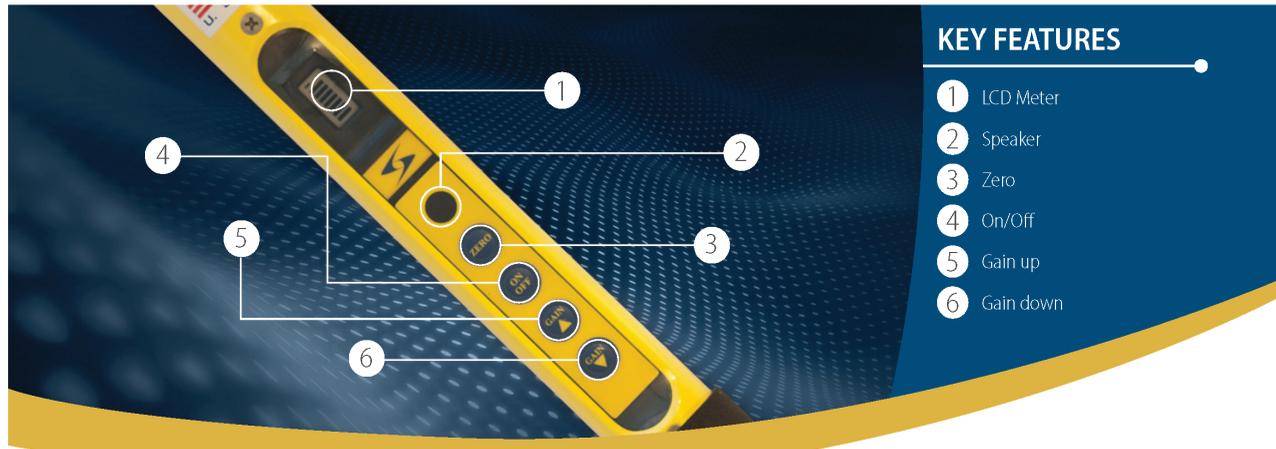
- ▷ Soft-pack custom case
- ▷ Instruction manual
- ▷ 1 set of 9-volt batteries

Updated 05/8/2017

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ML-3S & ML-3L MAGNETIC LOCATORS



KEY FEATURES

- 1 LCD Meter
- 2 Speaker
- 3 Zero
- 4 On/Off
- 5 Gain up
- 6 Gain down

FEATURES

- ▷ Detection of ferrous metal objects, including property pins and markers, live wires, weapons, devices and other objects.
- ▷ IP68 Certified. Waterproof tested to water depths up to 250 ft. (76 m) and a complete protection against dust, dirt, and sand.
- ▷ Easy to use one handed operation with four button keypad:
 - ▷ On/Off button: Turns unit on or off.
 - ▷ Zero button: Automatically calibrates unit to ambient magnetic conditions.
 - ▷ Gain Up button: Increases the locating sensitivity of the unit.
 - ▷ Gain Down button: Decreases the locating sensitivity of the unit.
- ▷ Includes soft case with carrying straps and inside pocket for batteries and manual
- ▷ Rugged construction suitable for field conditions
- ▷ Varying pitch audio signal mode using a moving coil speaker for enhanced audio output.
- ▷ Low battery indicator with flashing LCD.
- ▷ With a choice of 2 lengths (40" or 55"), it will fulfill any technician's needs.
- ▷ Detection of buried ferrous metal objects at depths up to 10':
 - ▷ Handgun: 1' to 2'
 - ▷ 175mm projectile: 4' to 5'
 - ▷ Water Shutoff valve: 6' to 10'
- ▷ Underwater Search and detection of:
 - ▷ Submerged Vehicles
 - ▷ UXOs and Mines
 - ▷ Salvageable Wrecks
 - ▷ Pipes and Cables
- ▷ Optional aluminum hard case available
- ▷ 7 year warranty.

SPECIFICATIONS

- ▷ **Overall length:** Short version- 40" (101.6cm)
Long version- 55" (139.7cm)
- ▷ **Weight:** short version- 1.8lbs.(0.8kg); long version- 2.5lbs(1.13kg) including batteries.
- ▷ **IP68 Certified.** Waterproof tested to water depths up to 250 ft. (76 m) and a complete protection against dust, dirt, and sand.
- ▷ **Audio:** Speaker pitch increases in frequency proportional to field intensity.
- ▷ **Visual:** LCD display with bar graph indicating polarity and relative strength of signal. When lights are flashing it also indicates low battery.
- ▷ **Input Power:** Three standard 9-volt alkaline batteries.
- ▷ **Battery Life:** Under normal operation, approximately 40 hours.
- ▷ **Operation Temperatures:** -13° to 140° F (-25° to 60° C)
- ▷ **Construction:** Exterior Sensor Tube made of aircraft grade aluminum.
- ▷ **MADE IN USA.** Built and serviced entirely in Wisconsin.



Includes:

- ▷ Soft-pack custom case
- ▷ Instruction manual
- ▷ 1 set of 9-volt batteries



MUL-1 MAGNETIC UNDERWATER LOCATOR KIT



KEY FEATURES

- 1 LCD Display
- 2 Connectors Panel
- 3 Connectivity Cables
- 4 Control Panel
- 5 Magnetic Underwater Sensor
- 6 Integrated Speaker

DESCRIPTION

Whether you're searching for metal immersed 10 feet or 1,000 feet in water, the Magnetic Underwater Locator (MUL) is for you. No other underwater locator can go to the depths the MUL does, thanks to its advanced technology. Sensors are housed inside machined titanium for superior durability and strength to depths of 1,000 feet. Plus, the long sensor allows for convenient diver or boat towing.

The MUL Kit consists of 3 main items that are sold separately to facilitate its customization. The Control Box including a rechargeable 12v battery, a 50' sensor cable with Amphenol® connectors (custom lengths available) and a titanium underwater sensor which works similarly to a magnetic locator.

FEATURES

- ▷ Heavy-duty sensor cable acts as lanyard. 30', 50', 100' (non-standard lengths available)
- ▷ High-quality connectors and "Toilet Seat" cover over headset jack. "Seacon" connectors available.
- ▷ Alligator clips for 12-volt auxiliary power.
- ▷ Gel-cell auto-charges when auxiliary power connected.
- ▷ "Zero" to "Null" gradient.
- ▷ Permanent gel-cell battery-mounted under electronics panel.
- ▷ Long Titanium Magnetic Sensor for diver or boat towing.
- ▷ 1 year warranty

SPECIFICATIONS

CONTROLS

- ▷ On, Off
- ▷ Volume Up and Down
- ▷ Range setting (Gain or Sensitivity) Up and Down
- ▷ Zero, Plus and Minus
- ▷ Auto Zero - Automatic self-adjusting

OUTPUTS

- ▷ Audio Frequency Pitch (speaker and jack for headset)
- ▷ Visual LCD Display
- ▷ Bar Graph - range Gain setting - milligauss
- ▷ RS-232 PC connection (cable included)
- ▷ Control all keypad functions data log range, keypad and signal settings works with hyper terminal or equivalent

POWER OPTIONS

- ▷ Internal Battery: 12-volt, 7.2Ah sealed lead acid
- ▷ Battery Life: 72 hours continuous use, charges to full overnight
- ▷ External Power: 12 to 15-volt, cable included
- ▷ Internal battery charging circuit is enabled when AC charging cable is connected

DIMENSIONS

- ▷ Electronics: 16.9" w x 10" h x 6.5" d
- ▷ Sensor: 1.625" d x 34.875" L (4.13cm x 88.58cm)



Items Sold Separately

- ▷ Control Box
- ▷ 50' Sensor Cable
- ▷ Long Titanium Magnetic Sensor



Includes:

- ▷ ABS custom case
- ▷ Connectivity cables
- ▷ Instruction manual
- ▷ Rechargeable battery

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Rev. 10/21/2020

BHG - BORE HOLE GRADIOMETER KIT



KEY FEATURES

- 1 LCD Display
- 2 Connectors Panel
- 3 Connectivity Cables
- 4 Control Panel
- 5 Bore Hole Gradiometer
- 6 Integrated Speaker

Items Sold Separately

DESCRIPTION

Specifically designed to find the presence of any ferrous metal in the ground at a radius of $\pm 8'$, you can rely on the Bore Hole Gradiometer (BHG) sensitivity and accuracy.

The BHG Kit consists of 3 main items that are sold separately to facilitate its customization. The Control Box including a rechargeable 12v battery, a 50' sensor cable with Amphenol® connectors (custom lengths available) and a titanium Bull-nosed sensor which works similarly to a magnetic locator.

FEATURES

- ▷ Heavy-duty sensor cable acts as lanyard. 30', 50', 100' (non-standard lengths available)
- ▷ High-quality connectors and "Toilet Seat" cover over headset jack. "Seacon" connectors available.
- ▷ Alligator clips for 12-volt auxiliary power.
- ▷ Gel-cell auto-charges when auxiliary power connected.
- ▷ "Zero" to "Null" gradient.
- ▷ Permanent gel-cell battery-mounted under electronics panel.
- ▷ Bull-nosed and tapered sensor on BHG.
- ▷ 1 year warranty



SPECIFICATIONS

CONTROLS

- ▷ On, Off
- ▷ Volume Up and Down
- ▷ Range setting (Gain or Sensitivity) Up and Down
- ▷ Zero, Plus and Minus
- ▷ Auto Zero - Automatic self-adjusting

OUTPUTS

- ▷ Audio Frequency Pitch (speaker and jack for headset)
- ▷ Visual LCD Display
- ▷ Bar Graph - range Gain setting - milligauss
- ▷ RS-232 PC connection (cable included)
- ▷ Control all keypad functions data log range, keypad and signal settings works with hyper terminal or equivalent

POWER OPTIONS

- ▷ Internal Battery: 12-volt, 7.2Ah sealed lead acid
- ▷ Battery Life: 72 hours continuous use, charges to full overnight
- ▷ External Power: 12 to 15-volt, cable included
- ▷ Internal battery charging circuit is enabled when AC charging cable is connected

DIMENSIONS

- ▷ Electronics: 16.9" w x 10" h x 6.5" d
- ▷ Sensor: 1.625" d x 17.5" L (4.13cm x 44.45cm)

Items Sold Separately

- ▷ Control Box
- ▷ 50' Sensor Cable
- ▷ Bull-nosed Titanium Magnetic Sensor



Includes:

- ▷ ABS custom case
- ▷ Connectivity cables
- ▷ Instruction manual
- ▷ Rechargeable battery



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PL-TT PIPE & CABLE LOCATOR

INCLUDES

- PL-TT Receiver 1
- PL-VF3 Transmitter 2
- Direct connection Cord 3
- Ground Rod 4
- Protective Carrying Case 5
- User Manual 6
- Batteries 7



PL-TT DESCRIPTION

Built with advanced Technology at its core, the **PL-TT** offers SSI's most sophisticated technology in an economical package. For quick simple locates, even in the most demanding of locating environments, users can depend on the **PL-TT**. Dependability is not only driven by the internal technology, but the **PL-TT** is built to last with a carbon fiber housing and sealed against weather.

The ruggedly designed and well balanced receiver includes an LCD screen providing relative and actual signal strength, as well as a speaker for variable audio pitch. With two line locate modes to choose from, a peaking signal response and left-right guidance, the instrument can be operated for quick and simple locating or it may be dialed in to minimize interference. Conductor depth can be estimated by both a push button digital depth & by triangulation.

PL-TT cable and pipe locator offers multiple active frequencies ranging from 512Hz to 131kHz and passive power frequencies. Its advanced technology ensures flexibility to match the needs of the most complicated locating environments. As standard the unit is equipped with 4 active frequencies; 815Hz, 8kHz, 33kHz & 82kHz.

Transmitter functions include transmitter induction, coupler induction and direct connection. Whether the locate is measured in feet or miles, with automatic impedance matching from 5 ohms to 25,000 ohms and 3 watts of output power, **The PL-TT** will meet the challenge.

SubSurface Instruments, Inc. locators are designed and manufactured to make utility locating as accurate as you need and as simple as you want.

For more information on the **PL-TT**, please call us at 1-855.422.6346, or visit online at www.ssilocators.com

FEATURES

- Simple and easy user interface with four buttons keypad panel and Digital display indicator
- Carbon Fiber housing
- Customizable frequencies and operational modes
- Transmits 2 frequencies at the same time
- Battery Operated RX 6 "AA" alkaline batteries
- Battery Operated TX 8 "C" alkaline batteries
- Made in the USA



Soft Carrying Case

Rev. 01/29/2019

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PL-TT PIPE & CABLE LOCATOR

SPECIFICATIONS



RECEIVER

- Frequencies:** 512Hz to 131kHz.
- Passive Frequencies:** 60Hz, CP
- Antenna Mode:** Peak & Left/Right
- Display Indicators:** Bar graph, low battery, signal strength, & mode
- Audio Indication:** Variable pitch response
- Power Source:** 6 "AA" cell batteries
- Battery Life:** Continuous: 30 hours; Intermittent: 60 hours
- Signal Strength:** Bar graph & Absolute signal strength 0-99
- Gain Control:** Manual gain adjustment
- Dynamic Range:** 126 dB
- Depth Estimation:** Push button digital depth & Triangulation
- Operating Temperature:** -4°F - +133°F (-20°C - +55°C)
- Size:** 33.3" x 3.4" (77 cm x 24 cm)
- Weight:** 1.26 lbs (0.57 kg) with batteries



PL - TT
Control panel/ digital display

TRANSMITTER

- Available Operating Frequencies:** 512Hz to 131kHz.
- Transmits 2 frequencies at the same time
- Indicators:** AC load assistance measurement, relative ohms, voltage, live voltage output, current output, power level, frequency, mode, battery indication alert, low battery indicator audio/visual with modulated low battery warning transmitted to receiver
- Load Matching:** Automatic from 5 ohms to 25,000 Ω
- Output Power:** 3 power settings Low & Medium Frequency Range: 0.2w to 3w High
- Frequencies:** (above 44kHz) : 0.2 to 1w
- Power Source:** 8 "C" cell batteries
- Battery Life:** Continuous: 8-15 hours (Dependant on load, frequency, power setting)
- Operating Temperature:** -4° F to 133° F (-20° C to 55° C)
- Ingress Protection Rating:** IP65
- Dimensions:** 8.5" x 5.8" x 2.5" (21 cm x 15 cm x 6 cm)
- Weight:** 2.2 lbs (1 kg) with batteries
- Country of Origin:** United States of America
- Warranty:** 1 year warranty. Extends to "4" Years Warranty when registered at:
<http://www.ssilocators.com/warranty-registration>
within 1 month of the date of purchase.



PL - VF3
3 WATTS TRANSMITTER



PL-VF3 PIPE & CABLE LOCATOR

INCLUDES

- PL-VF Receiver 1
- PL-VF3 Transmitter 2
- Direct connection Cord 3
- Ground Rod 4
- Protective Carrying Case 5
- User Manual 6
- Batteries 7



PL-VF3 DESCRIPTION

Simple, accurate and affordable, the PL-VF3 Locating System will meet the demands of any locate task. This locator is designed for the locating professional, but it is simple enough to be used by anyone needing to locate.

The PL-VF3 Locating System is adaptable; frequencies and operational modes may be added or deleted on demand to suit the user's locating needs.

Our innovative technology creates a remote link between the transmitter and receiver. Users can control the transmitter's output power and frequency right from the hand-held receiver, eliminating the back and forth walking between devices.

A large, high-contrast LCD offers clearly visible signal response in any lighting. Automatic depth, automatic current, and proximal directional arrows are readable in the brightest sunshine or back-lit for viewing in dimmer conditions.

Whether the locate is measured in feet or miles, 3 watts of power and automatic impedance matching from 5 ohms to 25,000 ohms, ensures adequate signal. The PL-VF3 Locating System is a must have for anyone needing a simple and accurate locator.

Standard Frequencies:

512 Hz, 8kHz, 33kHz, 82kHz and 200kHz.



FEATURES

- Four button keypad simplifies the user interface
- 8 Locating Modes: the multi-channel processor allows for simultaneous field detection from a multiple antenna array ensuring accuracy
- Transmits 2 frequencies at the same time
- Customizable frequencies and operational modes
- Automatic Impedance Matching Technology: maximizes your transmission range while minimizing power consumption
- Remotely controls your transmitter from the receiver to more than 400 meters (437 yards)
- High-Contrast LCD Interface with Back light: guides the operator to the target location by providing all relevant data including continuous depth, current measurement, signal strength, and directional arrows
- Constant Depth & Current Measurement: real time updates on line depth and signal condition
- 1-4 year warranty. Warranty extends to 4 years when registered within 30 days of original purchase
- Made in the USA



Soft Padded
Carrying Case

Rev. 07/12/2021

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PL-VF3 PIPE & CABLE LOCATOR

SPECIFICATIONS

RECEIVER

Operating Frequencies: 512Hz to 200kHz
Sonde: 640Hz, 512Hz, 815Hz, 8.192 kHz & 32.768kHz
Passive Power modes: 50env & 60env, Radio Frequency; Rectified CP 50Hz & Rectified CP 60Hz
Antenna Mode: Simultaneous peak/null (dual horizontal antennas & vertical antenna), pin-point peak (dual horizontal antennas), directional guidance, peak (single horizontal antenna) & null (single vertical antenna)
Display: Indicators back-lit segmented LCD bar graph, battery condition, continuous mode signal strength, depth measurement, line orientation, left/right line guidance, operating mode, volume level & function indicators
 Audio Indication Variable pitch & Live Sound. 4 volume selections including mute.
 Current measurement display indicates relative current
Power Source: 6 "C" cell batteries
Battery Life: Continuous: 30h. Intermittent: 82h.
Signal Strength: LCD bar graph, absolute signal strength 0-999
Left/Right Gain Control Guidance Mode: Automatic
All other locate modes: Manual gain adjustment & automatic centering
Dynamic Range: 126 dB
Depth Measurement: 3 digit LCD readout of push-button measurement (1 inch - 30 feet) (.02m-10.6m) with accuracy > 5% of depth. (Digital measurement)
Operating Temperature: -4°F to +133°F (-20°C to +55°C)
Ingress Protection Rating: IP65
Dimensions: 30.3" x 9.4"
 (77cm x 24cm)
Weight: C-cell: 4.2 lbs (1.9 kg)



PL - VF
VARIABLE FREQUENCY RX

TRANSMITTER

PL - VF3 3 WATTS TRANSMITTER

Available Operating Frequencies 512Hz to 200kHz
Indicators AC load assistance measurement, relative ohms, voltage, live voltage output, current output, power level, frequency, mode, battery indication alert, low battery indicator audio/visual with modulated low battery warning transmitted to receiver
Load Matching Automatic from 5 ohms to 25,000 Ω
Output Power 3 power settings Low & Medium Frequency Range: 0.2w to 3w High
Frequencies (above 44kHz) : 0.2 to 1w
Power Source 8 "C" cell batteries
Battery Life: Continuous: 8-15 hours (Dependant on load, frequency, power setting)
Operating Temperature -4° F to 133° F (-20° C to 55° C)
Ingress Protection Rating IP65
Dimensions 8.5" x 5.8" x 2.5" (21 cm x 15 cm x 6 cm)
Weight: 2.2 lbs (1 kg) with batteries
Country of Origin United States of America
Warranty: 1 year warranty. "4" Years Warranty when registered at <http://www.ssilocators.com/warranty-registration> within 1 month of the date of purchase.



OPTIONAL ACCESSORIES



PL - VF10
10W TRANSMITTER
With Alkaline batteries or Li-Ion rechargeable batteries



WIRELESS INDUCTIVE CLAMP
Self-contained, stand-alone, transmitting inductive coupler. 3 frequencies, High & Low Power Outputs, rechargeable batteries.



A-FRAME
Works Independent from the receiver. Detects core-to-ground faults & sheath-to-ground faults.



INDUCTIVE COUPLER 4" I.D.
Apply signal to live cables. 4" I.D. - Operational Frequency Range 8kHz to 82 kHz.

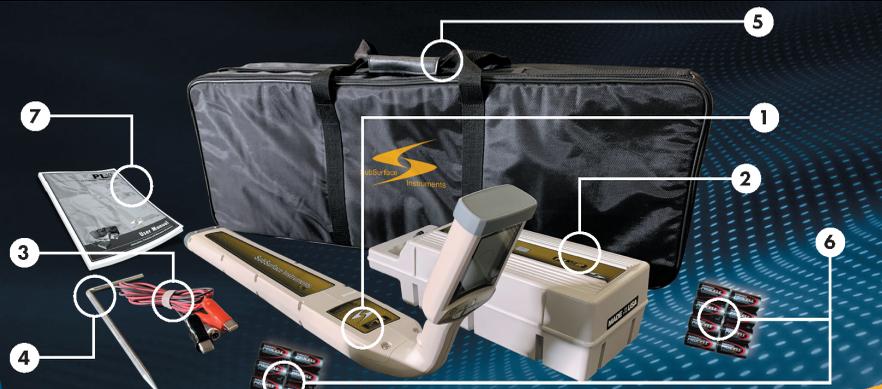


PL-VF10 PIPE & CABLE LOCATOR

Alkaline Batteries

INCLUDES

- PL-VF Receiver 1
- PL-VF10 Transmitter 2
- Direct connection Cord 3
- Ground Rod 4
- Protective Carrying Case 5
- Alkaline Batts. 6
- User Manual 7



PL-VF10 DESCRIPTION

Simple, accurate and affordable, the PL-VF10 Locating System will meet the demands of any locate task. This locator is designed for the locating professional, but it is simple enough to be used by anyone needing to locate.

The PL-VF10 Locating System is adaptable; frequencies and operational modes may be added or deleted on demand to suit the user's locating needs.

Our innovative technology creates a remote link between the transmitter and receiver. Users can control the transmitter's output power and frequency right from the hand-held receiver, eliminating the back and forth walking between devices.

A large, high-contrast LCD offers clearly visible signal response in any lighting. Automatic depth, automatic current, and proximal directional arrows are readable in the brightest sunshine or back-lit for viewing in dimmer conditions.

Whether the locate is measured in feet or miles, 5* or 10* watts of power and automatic impedance matching from 5 ohms to 25,000 ohms, ensures adequate signal. The PL-VF10 Locating System is a must have for anyone needing a simple and accurate locator.

Standard Frequencies:

512 Hz, 815 Hz, 8kHz, 33kHz, 65kHz, 82kHz, 200kHz and 480kHz.



FEATURES

- Four button keypad simplifies the user interface
- 8 Locating Modes: the multi-channel processor allows for simultaneous field detection from a multiple antenna array ensuring accuracy
- Transmits 2 frequencies at the same time
- Customizable frequencies and operational modes
- Automatic Impedance Matching Technology: maximizes your transmission range while minimizing power consumption
- Remotely controls your transmitter from the receiver to more than 400 meters (437 yards)
- High-Contrast LCD Interface with Back light: guides the operator to the target location by providing all relevant data including continuous depth, current measurement, signal strength, and directional arrows
- Constant Depth & Current Measurement: real time updates on line depth and signal condition
- Convenient 6 lbs total weight with Li-Ion batteries**
- 1-4 year warranty. Warranty extends to 4 years when registered within 30 days of original purchase
- Made in the USA



Soft Padded Carrying Case

Rev. 07/12/2021

SubSurface Instruments, Inc | 1230 Flightway Drive, De Pere, WI. 54115
 toll free: 855.422.6346 | Website: www.ssilocators.com | email: info@ssilocators.com



PL-VF10 PIPE & CABLE LOCATOR

Alkaline Batteries

SPECIFICATIONS

RECEIVER

Operating Frequencies: 480kHz, 200kHz, 131kHz, 82.315kHz, 65.536kHz, 32.768kHz, 8.192kHz, 4.010kHz, 815Hz, 797Hz, 640Hz & 512Hz

Sonde: 640Hz, 512Hz, 815Hz, 8.192 kHz & 32.768kHz

Passive Power modes: 50env & 60env, Radio Frequency; Rectified CP 50Hz & Rectified CP 60Hz

Antenna Mode: Simultaneous peak/null (dual horizontal antennas & vertical antenna), pin-point peak (dual horizontal antennas), directional guidance, peak (single horizontal antenna) & null (single vertical antenna)

Display: Indicators back-lit segmented LCD bar graph, battery condition, continuous mode signal strength, depth measurement, line orientation, left/right line guidance, operating mode, volume level & function indicators

Audio Indication Variable pitch & Live Sound. 4 volume selections including mute.

Current measurement display indicates relative current

Power Source: 6 "C" cell batteries

Battery Life: Continuous: 30h. Intermittent: 82h.

Signal Strength: LCD bar graph, absolute signal strength 0-999

Left/Right Gain Control Guidance Mode: Automatic

All other locate modes: Manual gain adjustment & automatic centering

Dynamic Range: 126 dB

Depth Measurement: 3 digit LCD readout of push-button measurement (1 inch - 30 feet) (.02m-10.6m) with accuracy > 5% of depth. (Digital measurement)

Operating Temperature: -4°F to +133°F (-20°C to +55°C)

Ingress Protection Rating: IP65

Dimensions: 30.3" x 9.4"
(77cm x 24cm)

Weight: C-cell: 4.2 lbs (1.9 kg)



PL - VF
VARIABLE FREQUENCY RX

TRANSMITTER

PL - VF10
10 WATTS TRANSMITTER

Available Operating Frequencies Range from 512Hz to 480kHz

Indicators AC load assistance measurement, relative ohms, voltage, live voltage output, current output, power level, frequency, mode, battery indication alert, low battery indicator audio/visual with modulated low battery warning transmitted to receiver.



Load Matching Automatic from 5 ohms to 25,000 Ω

Output Power 10 power settings Low & Medium Frequency Range: 0.2w to 10w High

Frequencies (above 44kHz) : 0.2 to 1w

Power Source Non-Rechargeable: 12 "D" cell batteries

Power Source Rechargeable:** 10.8 V, 10 amp-hour maintenance free Lithium Ion Battery

Battery Life Continuous: 8-20 hours (depending on load, frequency, power setting) Intermittent: 40-60 hours

Operating Temperature -4° F to 133° F (-20° C to 55° C)

Ingress Protection Rating IP65

Dimensions 16" x 6.32" x 6" (41 cm x 16 cm x 15 cm)

Weight: D-cell: 8 lbs (3.6 kg), Li-Ion Batt.: 6 lbs (2.7 kg)**

OPTIONAL ACCESSORIES



RECHARGEABLE BATTERIES

TX - 10.8V 7.8Ah 84.24Wh Li-Ion Battery
RX - 10.8V 5.2Ah 56.16Wh Li-Ion Battery
AC Charger



WIRELESS INDUCTIVE CLAMP

Self-contained, stand-alone, transmitting inductive coupler. 3 frequencies, High & Low Power Outputs, rechargeable batteries.



A-FRAME

Works Independent from the receiver. Detects core-to-ground faults & sheath-to-ground faults.



INDUCTIVE COUPLER 4" I.D.

Apply signal to live cables. 4" I.D. - Operational Frequency Range 8kHz to 82 kHz.



PL-VF10R PIPE & CABLE LOCATOR

Li-Ion Rechargeable Batteries

INCLUDES

- PL-VF Receiver 1
- PL-VF10 Transmitter 2
- Direct connection Cord 3
- Ground Rod 4
- Protective Carrying Case 5
- Rechargeable Lithium Batts. 6
- User Manual 7



PL-VF10R DESCRIPTION

Simple, accurate and affordable, the PL-VF10R Locating System will meet the demands of any locate task. This locator is designed for the locating professional, but it is simple enough to be used by anyone needing to locate.

The PL-VF10R Locating System is adaptable; frequencies and operational modes may be added or deleted on demand to suit the user's locating needs.

Our innovative technology creates a remote link between the transmitter and receiver. Users can control the transmitter's output power and frequency right from the hand-held receiver, eliminating the back and forth walking between devices.

A large, high-contrast LCD offers clearly visible signal response in any lighting. Automatic depth, automatic current, and proximal directional arrows are readable in the brightest sunshine or back-lit for viewing in dimmer conditions.

Whether the locate is measured in feet or miles, 5* or 10* watts of power and automatic impedance matching from 5 ohms to 25,000 ohms, ensures adequate signal. The PL-VF10R Locating System is a must have for anyone needing a simple and accurate locator.

Standard Frequencies:

512 Hz, 815 Hz, 8kHz, 33kHz, 65kHz, 82kHz, 200kHz and 480kHz.



FEATURES

- Four button keypad simplifies the user interface
- 8 Locating Modes: the multi-channel processor allows for simultaneous field detection from a multiple antenna array ensuring accuracy
- Transmits 2 frequencies at the same time
- Customizable frequencies and operational modes
- Automatic Impedance Matching Technology: maximizes your transmission range while minimizing power consumption
- Remotely controls your transmitter from the receiver to more than 400 meters (437 yards)
- High-Contrast LCD Interface with Back light: guides the operator to the target location by providing all relevant data including continuous depth, current measurement, signal strength, and directional arrows
- Constant Depth & Current Measurement: real time updates on line depth and signal condition
- Convenient 6 lbs total weight with Li-Ion batteries
- 1-4 year warranty. Warranty extends to 4 years when registered within 30 days of original purchase
- Made in the USA



Soft Padded Carrying Case

Rev. 07/12/2021

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PL-VF10R PIPE & CABLE LOCATOR

Li-Ion Rechargeable Batteries

SPECIFICATIONS

RECEIVER

Operating Frequencies: 480kHz, 200kHz, 131kHz, 82.315kHz, 65.536kHz, 32.768kHz, 8.192kHz, 4.010kHz, 815Hz, 797Hz, 640Hz & 512Hz

Sonde: 640Hz, 512Hz, 815Hz, 8.192 kHz & 32.768kHz

Passive Power modes: 50env & 60env, Radio Frequency; Rectified CP 50Hz & Rectified CP 60Hz

Antenna Mode: Simultaneous peak/null (dual horizontal antennas & vertical antenna), pin-point peak (dual horizontal antennas), directional guidance, peak (single horizontal antenna) & null (single vertical antenna)

Display: Indicators back-lit segmented LCD bar graph, battery condition, continuous mode signal strength, depth measurement, line orientation, left/right line guidance, operating mode, volume level & function indicators

Audio Indication Variable pitch & Live Sound. 4 volume selections including mute.

Current measurement display indicates relative current

Power Source: Lithium Ion rechargeable battery

Battery Life: Continuous: 30h. Intermittent: 82h.

Signal Strength: LCD bar graph, absolute signal strength 0-999

Left/Right Gain Control Guidance Mode: Automatic

All other locate modes: Manual gain adjustment & automatic centering

Dynamic Range: 126 dB

Depth Measurement: 3 digit LCD readout of push-button measurement (1 inch - 30 feet) (.02m-10.6m) with accuracy > 5% of depth. (Digital measurement)

Operating Temperature: -4°F to +133°F (-20°C to +55°C)

Ingress Protection Rating: IP65

Dimensions: 30.3" x 9.4" (77cm x 24cm)

Weight: Li-ion Batt.: 4 lbs (1.81 kg)



PL - VF
VARIABLE FREQUENCY RX
RECHARGEABLE BATTERY PLUG

TRANSMITTER

PL - VF 10R
10 WATTS TRANSMITTER

Available Operating Frequencies Range from 512Hz to 480kHz

Indicators AC load assistance measurement, relative ohms, voltage, live voltage output, current output, power level, frequency, mode, battery indication alert, low battery indicator audio/visual with modulated low battery warning transmitted to receiver.



Load Matching Automatic from 5 ohms to 25,000 Ω

Output Power 10 power settings Low & Medium Frequency Range: 0.2w to 10w High

Frequencies (above 44kHz) : 0.2 to 1w

Power Source Rechargeable: 10.8 V, 10 amp-hour maintenance free Lithium Ion Battery

Battery Life Continuous: 8-20 hours (depending on load, frequency, power setting) Intermittent: 40-60 hours

Operating Temperature -4° F to 133° F (-20° C to 55° C)

Ingress Protection Rating IP65

Dimensions 16" x 6.32" x 6" (41 cm x 16 cm x 15 cm)

Weight Rechargeable: 6 lbs (2.7 kg); D-cell: 8 lbs (3.6 kg)

OPTIONAL ACCESSORIES



WIRELESS INDUCTIVE CLAMP
Self-contained, stand-alone, transmitting inductive coupler. 3 frequencies, High & Low Power Outputs, rechargeable batteries.



A-FRAME
Works Independent from the receiver. Detects core-to-ground faults & sheath-to-ground faults.



INDUCTIVE COUPLER 4" I.D.
Apply signal to live cables. 4" I.D. - Operational Frequency Range 8kHz to 82 kHz.



LD-7 WATER LEAK DETECTOR



KEY FEATURES

- 1 Amplifier w/volume & mute switch
- 2 Sensor w/3 point ground plate
- 3 Magnet base
- 4 Stereo headphones
- 5 3 section contact rod

FEATURES

- ▷ Compact amplifier (with mute switch) fits inside the palm of the user's hand. Press the mute switch (on/off) to activate the leak sounds in the headphones, and then release the mute switch when moving the sensor (protects your hearing!).
- ▷ Designed for all of the water leak detection applications, including leak surveys and leak pinpointing. Use the 3-point ground plate for pinpointing on streets and concrete slabs. Use the magnet base or the contact rod for leak surveys at hydrants, valves, or meters.
- ▷ Extremely compact and lightweight. The entire LD-7 inside its heavy duty carrying case measures only 14 inches x 10 inches x 6 inches, small enough to be stored behind the seat inside the cab of the truck.
- ▷ 5 High Frequency filters, 3 Low Frequency filters (plus Low filter OFF), and 2 Notch filters (plus Notch filter OFF) to remove continuous interfering noises from A/C hum, motors, wind, etc.
- ▷ Hard ABS plastic custom carrying case included.

SPECIFICATIONS

AMPLIFIERS

- ▷ Input Impedance: 430k ohm +/- 1%
- ▷ Output Impedance: 4-10 ohm
- ▷ Amplification: 56 dB +/- 3%
- ▷ Frequency Range: 100Hz to 1500Hz
- ▷ Power: 2 AA dry cell batteries (1.5 V x 2)
- ▷ Power Consumption: 20 mA Nominal (30-hour life)
- ▷ Weight: 0.507 lb. (230 gm)
- ▷ Size: 5.7" x 3" x 1.25"
(145mm x 30mm x 68mm)

HEADPHONES

- ▷ Impedance: 20 ohms

ABS CARRYING CASE

- ▷ Weight (full): 5.84 lbs (2.65 Kg)
- ▷ Size: 14" x 10.5" x 6"
(356mm x 267mm x 152mm)



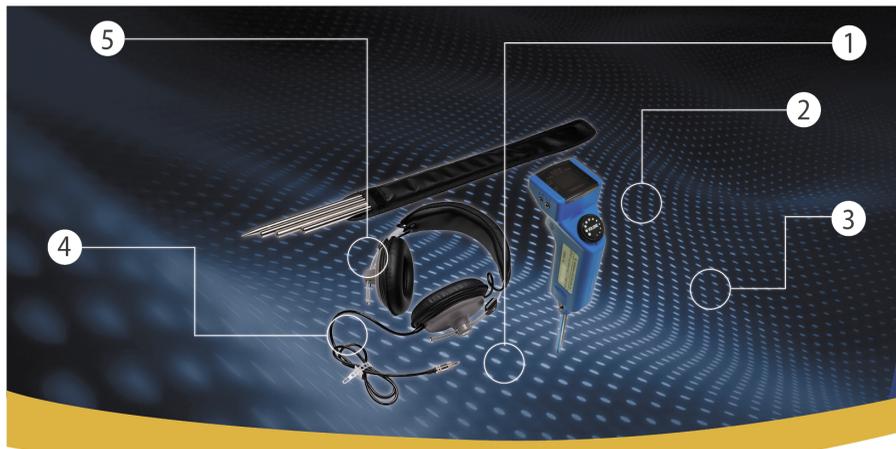
Includes:

- ▷ ABS custom case
- ▷ Instruction manual

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LD-8 WATER LEAK DETECTOR



KEY FEATURES

- 1 4-Section contact rod set (52")
- 2 Over the ear stereo headphones
- 3 Amplifier w/display & vol control
- 4 ABS plastic custom carrying case
- 5 Short contact rod (4")

FEATURES

- ▷ Amplifier with push button ON/OFF switch, volume control, two-digit display of loudness, and three-range sensitivity switch.
- ▷ Use the short contact rod for listening at hydrants.
- ▷ Use the long contact rods for listening at below-grade meters and below-grade valves.
- ▷ Notch filters reduce A/C hum from transformers, power lines, etc.
- ▷ Excellent sensor sensitivity, leak sound amplification, and audio clarity.
- ▷ Stereo headphones with soft leather ear covers are comfortable for hours and hours.
- ▷ Use the two-digit display to compare the loudness of leak sounds at nearby locations, like adjacent water meters, close water hydrants, close water valves, etc. The display can show which is loudest when your ears can not tell.
- ▷ Sturdy, light-weight carrying case weighs only 10 lbs. and fits behind the seat in the truck.

SPECIFICATIONS

AMPLIFIER

- ▷ Sensor: Piezoelectric Element
- ▷ Amplification: 55 dB
- ▷ Frequency Range: 100Hz to 2000Hz
- ▷ Notch Filters: 150Hz and 180Hz
- ▷ Temperature Range: 25 F to 130 F
- ▷ Batteries: Two AA (dry cell or rechargeable)
- ▷ Battery Life: 24 hours minimum (alkaline cells)
- ▷ Weight: 10.6 ounces (with batteries)
- ▷ Size: 8.15" w x 3.3" h x 2.4" d

HEADPHONES

- ▷ Impedance: Stereo, 8 ohms

ABS CARRYING CASE

- ▷ Weight (full): 10 lbs (4.55 Kg)
- ▷ Size: 18" w x 12" h x 7" d
(457mm x 304mm x 178mm)

STANDARD CONTACT RODS

- ▷ Short Rod: 4 inches, anti-slip tip
- ▷ 4-Section Rod Set: 52" in 4 sections, each 13" long, thread-connections

OPTIONAL CONTACT RODS

- ▷ 40 Inches Rod: Single piece, light-weight stainless steel
- ▷ 60 Inches Rod: Single piece, light-weight stainless steel



Includes:

- ▷ ABS custom case
- ▷ Instruction manual



LD-12 WATER LEAK DETECTOR



STANDARD ITEMS

- 1 3 Section Contact Rod
- 2 Amplifier
- 3 Ground Mic & Handswitch
- 4 Magnet Base
- 5 Stereo Headphones
- 6 Nut Driver

FEATURES

- ▷ Large meter display (with backlight) of sound loudness, allowing the user to pinpoint the exact leak location.
- ▷ Light weight amplifier, weighing only 31 ounces, with a padded carrying case and a strap.
- ▷ Six selectable filters, split into three "low side" filters (100Hz, 200Hz, or 400Hz) and three "high side" filters (600Hz, 800Hz, or 1200Hz).
- ▷ "Limiter" switch which cuts off all loud noises greater than 110dB. If you drop the sensor, you won't hurt your hearing.
- ▷ "Filter-Thru" switch, which turns OFF all of the amp's filters, allowing the user to hear all sounds from 50Hz to 15,000Hz.
- ▷ High-sensitivity ground microphone and low "electronic noise" amplifier combine to offer the very best quality sound for leak detection.
- ▷ Three accessories for attachment to the sensor:
 - ▷ Ground plate for pinpointing on streets/slabs
 - ▷ Magnet base for surveying at hydrants/valves
 - ▷ Contact rod for surveying at meters/fittings



AMPLIFIER WITH METER DISPLAY AND FILTER CONTROLS

AMPLIFIER CONTROLS

- ▷ Power ON/OFF Switch
- ▷ Battery Indicator
- ▷ Adjustable Filter buttons
- ▷ Headphone Jack
- ▷ Sensor Jack
- ▷ Meter Display
- ▷ Volume Control
- ▷ Display Light Switch

SPECIFICATIONS

AMPLIFIER

- ▷ Input Impedance: 50k ohms
- ▷ Output Impedance: 15 ohms
- ▷ Amplification: 62 dB +/- 3dB
- ▷ Frequency Range:
 - 1) 100Hz to 1200Hz (13 dB) with Filter-Thru OFF
 - 2) 15Hz to 30,000Hz (13 dB) with Filter-Thru ON
- ▷ Power: 6 AA dry cell batteries
- ▷ Power Consumption:
 - 1) 70 mA or less with backlight ON
 - 2) 35 mA or less with backlight OFF
- ▷ Battery Life:
 - 1) 28 hours with backlight OFF (alkaline cells)
 - 2) 14 hours with backlight ON (alkaline cells)
- ▷ Weight : 31 ounces (885 g)
- ▷ Size : 6.7" w x 2.8" h x 4.1" d (170mm x 71mm x 103mm)

ABS CARRYING CASE

- ▷ Weight (full) : 16.4 lb. (7.43 Kg)
- ▷ Size : 18.5" w x 14.6" h x 7.5" d (470mm x 371mm x 190mm)



Includes:

- ▷ ABS custom carrying case
- ▷ Instruction manual

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LD-15 WATER LEAK DETECTOR



KEY FEATURES

- 1 Amplifier w/meter display & filter controls
- 2 Aviation-grade stereo headphones
- 3 High sensitivity sensor & cable
- 4 Padded case & waist strap

FEATURES

- ▷ High sensitivity sensor with Neodymium magnet (extra strong). Sensor and cable connection completely sealed and water-proof (submersible).
- ▷ Amplifier with superior audio quality (very low distortion and superior signal-to-noise ratio) and large meter display. Press the Mute Switch to hear sounds when you are ready.
- ▷ "Survey" for water leaks by listening at hydrants and valves with the sensor and magnet. Survey at water meters with a Long Contact Rod (optional).
- ▷ "Pinpoint" water leaks in pipes under asphalt or concrete with the base plate attached to the sensor and magnet.
- ▷ Use the High filter range for water leak surveying. Use the Low filter range for water leak pinpointing. High frequency leak sounds travel on the pipes, but only low frequencies pass through the soil.



Soft Case

- ▷ Padded custom case
- ▷ Standard belt (40 inches)

SPECIFICATIONS

AMPLIFIER

- ▷ Amplification: 56 dB
- ▷ Filter Ranges:
 - 1) High Range: 30 Hz to 5000 Hz
 - 2) Low Range: 30 Hz to 800 Hz
 - 3) Notch Filter: 150 Hz, 180 Hz
- ▷ Power: 4 "C" dry cell batteries
- ▷ Battery Life: 80 hours with alkaline batteries at 68° F
- ▷ Weight: 31 ounces (including batteries)
- ▷ Size: 6.4" w x 3.0" h x 5.7" d (163mm x 76mm x 144mm)

SENSOR

- ▷ Sensitivity: 10 V/g
- ▷ Resonance Frequency: 950 Hz (±150 Hz)
- ▷ Weather Protection: IP68 or equivalent (3 ft under water for 3 hours)
- ▷ Cable Length: 9.75 ft



Includes:

- ▷ ABS custom case
- ▷ Instruction manual



LD-18 WATER LEAK DETECTOR



KEY FEATURES

- 1 Amplifier w/LCD, & Control Panel
- 2 Padded case for amplifier
- 3 Magnetized sensor (optional)
- 4 Aviation-grade stereo headphones
- 5 Ground mic & hand switch

FEATURES

- ▷ All-digital amplifier, with automatic noise reduction of intermittent sounds, high and low filters, storage and graphing of sound levels at different locations on the pipe, bar graph and numeric display of sound loudness, USB connection, and back light.
- ▷ Automatic noise reduction capability for intermittent noises such as pedestrian footsteps, people talking, and passing vehicles.
- ▷ Storage and graphical display of the leak's loudness at multiple locations along the pipe.
- ▷ Large LCD Display, provides superior visibility in both direct sunlight and dark environments.
- ▷ 5 High Frequency filters, 3 Low Frequency filters (plus Low filter OFF), and 2 Notch filters (plus Notch filter OFF) to remove continuous interfering noises from A/C hum, motors, wind, etc.
- ▷ Hard ABS plastic carrying case included.
- ▷ Soft padded case and waist strap for the transmitter.



Includes:

- ▷ ABS custom case
- ▷ Screw driver
- ▷ Waist strap
- ▷ USB cable
- ▷ Instruction manual

SPECIFICATIONS

AMPLIFIER

- ▷ Combined Sensitivity: 900 V/G or higher (at 400 Hz) and Amplification
- ▷ Low Filters: Off, 100 Hz, 200 Hz, 400 Hz
- ▷ High Filters: 400 Hz, 600 Hz, 800 Hz, 1200 Hz, 2200 Hz
- ▷ Notch Filters: Off, 50 Hz, 60 Hz
- ▷ Maximum No. of Sound: 250 (by date and time) Levels Saved in File
- ▷ Power: 4 C dry cell batteries
- ▷ Battery Life: 24 hours minimum (continuous use)
- ▷ Frequency Range: 50 Hz to 2200 Hz
- ▷ Weight: 35 ounces (including 4 C batteries)
- ▷ Size: 6.4" w x 3.0" h x 5.7" d (163mm x 76mm x 145mm)
- ▷ Weather Resistance: IP52 equivalent
- ▷ Temperature Range: Minus 4 F to Positive 130 F (Working)

SENSOR

- ▷ Type: Piezo electric ceramic
- ▷ Weather Resistance: IP67 equivalent (3 ft water depth for 30 minutes)
- ▷ Standard Base: 3 - Pronged Plate (removable with nutdriver)

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6mm Pipe Inspection Camera System



Camera Head	
Camera Size:	ø6mm
Sensor size:	1/12 inch
View angle:	60°
Work current/power:	DC 3.3V
Camera light:	4PCS white LEDs
Resolution:	PAL: 720X576 NTSC: 720X480
Glass material:	Sapphire glass
Shell material:	stainless steel
Focus Distance:	20~70mm

Monitor	
Size:	9inch TFT
Total Pixels:	800X480
Work current/supply:	DC12V
OSD language:	English
Image reversible	
Model:	16:9 & 4:3
Sunshade	

Control Box	
Power supply:	12V
Work current:	150MA
Storage medium:	SD card(max 256G) USB Stick
Battery level display	
Picture snap & movie record	.jpg .mp4
DVR Total Pixels:	720X576 (D1)
Movie format:	MP4
Microphone Audio record	
Stereo earphone output	

Cable Wheel	
Cable size:	ø320mmX110(h)
Wire material:	Fiberglass rod
Wire length:	40m
Wire diameter:	ø5.0mm

Li-ion Battery	
Battery capacity:	4400 MAH
Work supply:	14W
Charge time:	5 Hours
Protective voltage:	9.3V
Work time:	≥420minutes

Charger	
Input:	AC100-240V~50/60Hz
Output:	DC 12.6V/1000MA
DC plug diameter:	2.1mm

Suitcase	
Size:	L511XW430XH200mm
Material:	Engineering plastic

Skid	
Skid	ø 12mm



12mm Pipe Inspection Camera System



- Control Box**
- Camera**
- Cable Wheel**
- Monitor**
- Battery**
- Charger**
- Keyboard**
- Skids**
- Suitcase**

ø12mm Camera
6pcs white LEDs
Waterproof IP68
65° view angle

9" monitor
New style control box
Easier to operate
Support flash Disk

Fiberglass Rod
40m cable length
ø5mm cable diameter
Wheel: ø330x110(h) mm

Video Display

Text recording

Camera Head	
Camera Size:	ø12mmX125mm
Sensor size:	1/4 inch
View angle:	65°
Work current/power:	DC12V
Camera light:	6PCS white LEDs
Resolution:	PAL: 720X576 NTSC: 720X480
Glass material:	Sapphire glass
Shell material:	stainless steel
Water proof:	IP68

Monitor	
Size:	9inch TFT
Total Pixels:	800X480
Work current/supply:	DC12V
OSD language:	English
Image reversible	
Model:	16:9 & 4:3
Sunshade	

Control Box	
Power supply:	12V
Work current:	150MA
Storage medium:	SD card(max 256G) SD card reader
Battery level display	
Picture snap & movie record	.jpg .mp4
DVR Total Pixels:	720X576 (D1)
Movie format:	MP4
Microphone Audio record	
Stereo earphone output	

Cable Wheel	
Cable size:	ø330mmX110(h)
Wire material:	Fiberglass rod
Wire length:	40m
Wire diameter:	ø5.0mm

Li-ion Battery	
Battery capacity:	4400 MAH
Work supply:	12.6V
Charge time:	5 Hours
Protective voltage:	9.3V
Work time:	≥420minutes

Charger	
Input:	AC100-240V~50/60Hz
Output:	DC 12.6V/1000MA
DC plug diameter:	2.1mm

Suitcase	
Size:	L511XW430XH200mm
Material:	Engineering plastic

Skid	
Skid	ø 18mm

23mm Pipe Inspection Camera System



Control Box



Camera



Cable Wheel



Monitor



Battery



Charger



Keyboard



Skids



Suitcase



23mm Camera
12pcs white LEDs
Transmitter optional
Waterproof IP68
28mm self level camera (optional)



9" monitor



New style control box
Easier to operate
Support flash Disk



Cable wheel



Video Display



Text recording

Camera Head	
Camera Size:	ø23mmX125mm
Sensor size:	1/4 inch
View angle:	120°
Work current/power:	100MA / DC12V
Camera light:	12PCS white LEDS
Resolution:	PAL: 720X576 NTSC: 720X480
Glass material:	Sapphire glass
Shell material:	stainless steel

Monitor	
Size:	9inch digital color
Total Pixels:	800X480
Work current/supply:	250MA / DC12V
OSD language:	English
Image reversible	
Model:	16:9&4:3
Sunshade	

Control Box	
Power supply:	12V
Work current:	150MA
Storage medium:	8G SD card(max 32G) /SD card reader/U flash Disk
Battery level display	
Picture snap & movie record	
DVR Total Pixels:	720X576 (D1)
Movie format:	AVI
Microphone Audio record	
Stereo earphone output	

Cable Wheel	
Cable size:	ø320mmX105(h)
Wire material:	Fiberglass rod
Wire length:	20m(max 50m)
Wire diameter:	ø5.0mm

Li-ion Battery	
Total Power:	7W
Charge time:	3hours
Protective voltage:	8.1V
Work time:	≥240minutes

Charger	
Input:	AC100-240V~50/60Hz
Output:	DC 12V/1000MA
DC plug diameter:	2.1mm

Skid	
Skid	ø40/80mm

Suitcase	
Size:	L520XW435XH200mm
Material:	Engineering plastics

Keyboard	
Size:	220(L)X118(W)X18(H)mm



28mm Pipe Inspection Camera System



Camera Head	
Camera Size:	ø28mmX268mm
Spring length:	ø22.3mmX160mm
Transmitter:	512Hz
Sensor size:	1/4 inch
View angle:	120°
Work current/supply:	100MA / DC12V
Camera light:	12PCS white LEDS

Resolution:	PAL: 720X576 NTSC: 720X480
Glass material:	Sapphire glass
Shell material:	Stainless steel

Cable Wheel	
Cable size:	460(L)X270(W)X560(H)
Wire material:	Fiberglass rod
Wire length:	60m(Max 80m)
Wire diameter:	ø7.0mm
Wheel material:	Stainless steel
Meter counter & handle-brake	
Fiberglass color:	Yellow
Wheel size:	L88XW39XH62mm

Monitor	
Size:	9inch digital color
Total Pixels:	1440X234
Work current/supply:	250MA / DC12V
OSD language:	English
Image reversible	
Model:	16:9&4:3
Sunshade	

Li-ion Battery	
Total Power:	14W
Charge time:	5hours
Protective voltage:	8.1V
Work time:	≥260minutes

Suitcase	
size:	L460XW370XH180mm
Material:	Engineering plastics

Charger	
Input:	AC100-240V~50/60Hz
Output:	DC 12V/1000MA
DC plug diameter:	2.1mm

Control Box	
Power supply:	12V
Work current:	200MA
Storage medium:	8G SD card(max 32G) SD card reader
Battery level display	
Picture snap & movie record	
DVR Total Pixels:	720X576 (D1)
Movie format:	AVI
Microphone Audio record	
Stereo earphone output	

Keyboard	
Size:	220X118X18mm
Language:	English
Interface:	USB

Text Edit Line:	PAL 27letter 14line NTSC 27letter 12line
Max Edit Page:	4pages

Skids	
Skid -1	ø40mm
Skid -2	ø90mm

40mm Pipe Inspection Camera System



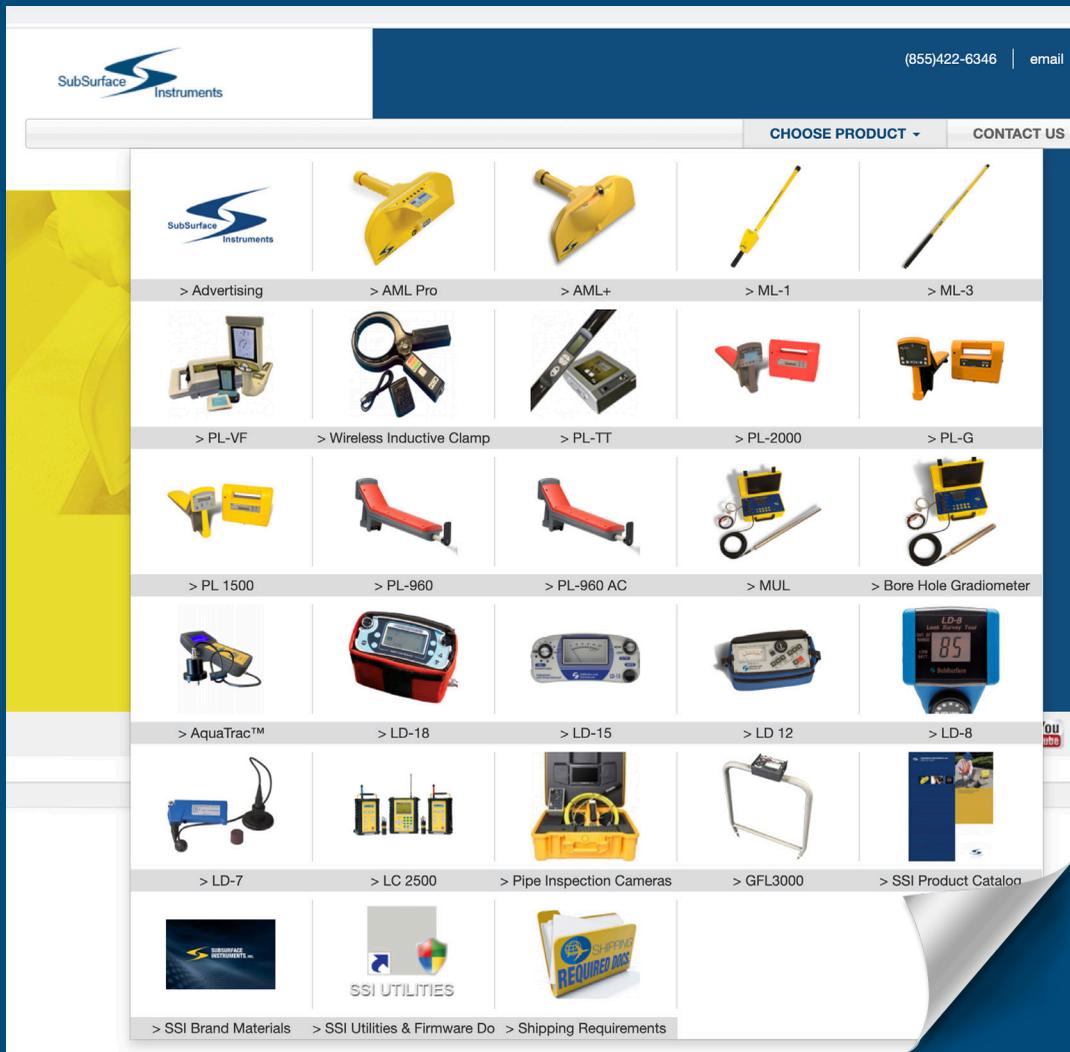
Camera Head	
Camera Size:	ø40mmX86mm
Spring length:	ø22.3mmX160mm
Self-leveling Function	
Sensor size:	1/4 inch
View angle:	105°
Work current/supply:	DC12V
Camera light:	42PCS white LEDs
Resolution:	PAL: 720X576 NTSC: 720X480
Glass material:	Sapphire glass
Shell material:	Aluminum Alloy
Cable Wheel	
Cable size:	520(L)X320(W)X710(H)
Wire material:	Fiberglass rod
Wire length:	60m
Wire diameter:	ø9.0mm
Wheel material:	Stainless steel
Meter counter & handle-brake	
Fiberglass color:	Yellow

Monitor	
Size:	9inch digital color
Total Pixels:	1440X234
Work current/supply:	250MA / DC12V
OSD language:	English
Image reversible	
Model:	16:9&4:3
Sunshade	
Li-ion Battery	
Total Power:	14W
Charge time:	5hours
Protective voltage:	8.1V
Work time:	≥260minutes
Suitcase	
size:	L460XW370XH180mm
Material:	Engineering plastics
Charger	
Input:	AC100-240V~50/60Hz
Output:	DC 12V/1000MA
DC plug diameter:	2.1mm

Control Box	
Power supply:	12V
Work current:	200MA
Storage medium:	8G SD card(max 32G) SD card reader
Battery level display	
Picture snap & movie record	
DVR Total Pixels:	720X576 (D1)
Movie format:	AVI
Microphone Audio record	
Stereo earphone output	
Keyboard	
Size:	220X118X18mm
Language:	English
Interface:	USB
Text Edit Line:	PAL 27 letter 14 line NTSC 27 letter 12 line
Max Edit Page:	4 pages
Skids	
Skid	ø110 mm / ø150 mm / ø220 mm



mediacenter.ssilocators.com



SUBSURFACE INSTRUMENTS MEDIA CENTER

PHOTOGRAPHY

For your convenience, these files are compatible with both Macintosh and PC platforms to easily provide you with print-ready photography. SubSurface Instruments grants blanket permission to use any of this photography for any "legitimate and favorable" benefit to the SubSurface Instruments brand.

LOGOS, ADS, AND OTHER MEDIA

Additional marketing assets are also provided for use in advertising and PR applications



Scan with your smartphone to visit our media center

Advertising Material

Let us help you promote our products!

As part of our commitment to our dealers and distributors, we make all our advertising material available on the Media Center. We are constantly updating the database of advertisements and graphic design material.

If you have a special request or you have a question about our advertisements, please send us an email at info@ssilocators.com or call us at (920) 347.1788 we will be happy to help you.



If your design team is creating your promotional material or re-designing your website and needs photos, articles, spec sheets, etc. The Media Center has all the marketing assets they will need, we update our database with all the new equipment information, photos, manuals, etc. So you can have the latest information about our products.

Visit our Media Center at www.mediacenter.ssilocators.com and download the files you need or if you have special requests or any questions contact us at info@ssilocators.com or call us at (920) 347.1788 we will be happy to help you.



Banners & Point of Sale Displays

10' x 3' Banners

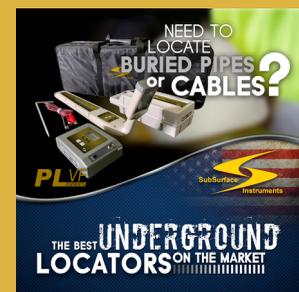
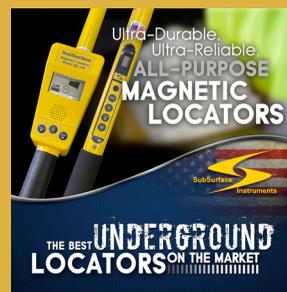
BANNERS

Choose the banner design that fits your needs. We have a great variety of designs for all our products, the original files can be downloaded from the media center and they are ready to print.

We have our own graphic design department and make all the original files available to our dealers. They are responsible for the printing and finding a provider close to their location or if they don't have one, we can put them in contact with our providers, so they can purchase directly from them.



8' x 3' Banners



3' x 3' Banners



Magnetic Locator display racks available for all our dealers

Advertising Samples

We are featured in Local, National and International Publications

We can help you promote our products and launch your presence in a bigger market. SSI is featured in trade publications, magazines, internal brochures, inserts, etc.

We also, have a very strong digital marketing presence in some of the most important Rural Water Associations in the country.

Ask us how we can help your marketing team promote our products with your company's name and take advantage of these marketing opportunities.

Send our marketing team an email or give us a call, we will be happy to help you get your ideas and promotions out to the market.



Articles & Mentions

Award-winning products & featured articles

SubSurface Instruments, Inc. is proud of our line of products, customer service, and the high-quality standard that we promote and maintain throughout our production process.

A variety of publications have highlighted our company due to the quality and innovation related to our underground locators, as well as excellent customer service provided by our sales team and company technicians.

The relationships that we have developed with our customers are one of the most important aspects of our commitment. Being a small company gives us the ability to have more direct, and close contact with our customers, this helps us make changes, and adjust our products according to our market's needs, always maintaining the same high quality in all our products and manufacturing processes.



Our Service

CUSTOMER SERVICE

SSI is a small business focused on helping our customers, dealers, and distributors.

The customer service team is available to help you with information, promotion, and development of strategies to sell and distribute our products to the public.

No question is too small or too complicated for our representatives, please contact our customer service team on page 4 or at info@ssilocators.com we will be happy to help you.

TECHNICAL ASSISTANCE

Our Team has over 75 combined years of experience and has hands-on knowledge on the use of underground locators and techniques in the field.

A team of engineers develops our products following very closely the needs and requirements of our ever-growing industry.

Let us know about your technical needs, we will help you find the best product for you.

JUST FRIENDLY CONVERSATION

Many times there is no clear answer for a problem, our instruments have several applications, and sometimes we need to find another perspective to get to the solution.

We like to be part of the solution, let us know what type of project you are working on, we are confident that we can help you find the right product for your needs, even if it means suggesting a competitors product.

Trade-In Program

BEING A DEALER FOR SSI HAS IT'S PERKS

Any certified SubSurface Instruments (SSI) dealer can participate in our Trade-In Program. To receive the discount, send any comparable trade-in unit to our location with a completed Trade-In Certificate. SubSurface Instruments will determine what is a comparable trade-in unit once we receive all trade-ins at our facility. Please include a purchase order for whichever SSI model magnetic locator you want to purchase.

Once we receive the unit at our warehouse, we will assign a number to your Trade-In Certificate. If you are not prepared at that time to purchase a new magnetic locator, we will hold the certificate for one (1) year. This allows the dealer the ability to use that certificate number on the next (or a future) purchase order they submit.

We can only offer the discounted rate after we receive the trade-in unit at our facility. No discounts will be given until that time.

Once you become an authorized dealer for SSI, you'll receive our discounted dealer's price sheet. The price of your unit w / Trade-In will be included on that list. That is what you will pay for a new locator once we get the trade-in at our facility.



Web Version

Print Version

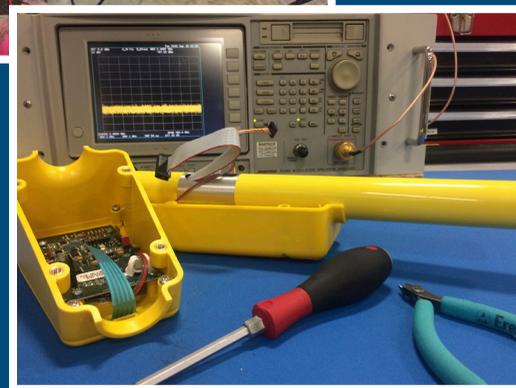
Repair Process

SSI's team of skilled technicians is qualified to quickly repair SubSurface Locators to their original factory specifications. Simply contact SSI with your model type, problem, or issue, and send your locator to the SSI factory repair facility. Our technicians will expedite your repair quickly and to your satisfaction.

Ship your unit to:

*Service Department
SubSurface Instruments, Inc.
1230 Flightway Dr.
De Pere, WI
54115 - USA*

It's very important that you describe the problem or issue you are having with your unit, including contact information, and return shipping address. For units that are covered under warranty, we will complete the repair and ship the unit back to you, if the unit is not covered by warranty, we will send you an estimate before any work gets done on your locator.



REPAIR POLICY

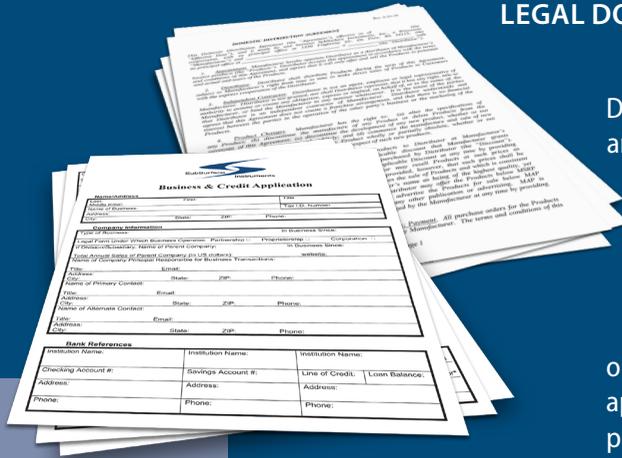
Any repairs that are not covered by the SSI's Warranty will be billed for parts, labor, shipping, and handling. Repair quotes will be provided, and customers must provide prior authorization for the repair in writing. Allow 5 business days for the repair and return. Repairs have a 12-month warranty.

See our Trade-In allowance program to receive a valuable discount on a new equivalent SSI product.

Join Our Team

Dealer Credit and Training Responsibilities

LEGAL DOCUMENTS



You will receive a Business & Credit Application and a Distribution Contract that are required to be completed and returned to accounting@ssilocators.com

Upon receipt, SSI will review your business and financial capabilities to determine eligibility and credit terms.

Please contact your sales representative listed on page 4 to obtain a copy of our contract and credit applications, they will be happy to help you start the process.

TRAINING & DEALER CERTIFICATION

SSI strongly encourages new dealers to attend a factory training session in Green Bay, WI to fully understand our products, their capabilities and limitations. Our dealer that wants to sell our AML Series (for all materials locating) most send at least one sales representative from their organization for training and become certified to sell this unique locator. Becoming certified will allow you to be added to a small portion of our dealers who are qualified to sell this product.

SSI offers 2 training credits for 2 trainees with the purchase of our **AML unit**. Although, we cover the expenses for the training once you arrive at our facilities (Hotel, Transportation, and Meals) you are responsible to get to and from our facilities located in Green Bay, Wisconsin.

A SHORT INTRODUCTORY SESSION THAT EXPLAINS HOW THE UNIT WORKS.

- Instrumentation
- Theory of Operation
- Controlled Environment Location
- Capabilities and Limitations
- Techniques

FIELD DEMONSTRATION (6-8 HOURS)

A practical application that teaches how to locate various targets, (PVC pipe, Gas, Sewer, Water, Power, Cable, Rubber, Fiber Optics, Etc.)

Marked Sites | Unmarked Sites | Direction | Soil Conditions



Become a Dealer

Dealership Application Process

STEP 1

Complete the Business and Credit application, read and sign the Domestic/International Distribution Agreements.

You can send it by mail to:

1230 Flightway Dr.
De Pere, WI
54115 - USA

Or email it to:

accounting@ssilocators.com



STEP 2

We will review your credit and determine eligibility for dealership and credit terms. You will be contacted by our representatives with the result of our determination.

STEP 3

Upon approval of the application, an initial minimum product purchase will be required. Your SSI representative will discuss those requirements in detail with you.

STEP 4

Once your initial purchase is completed, we will provide you with an Authorized Dealer Certificate and we will add you to our SSI dealer web page so you can immediately take advantage of our vast array of marketing tools and customer referrals.

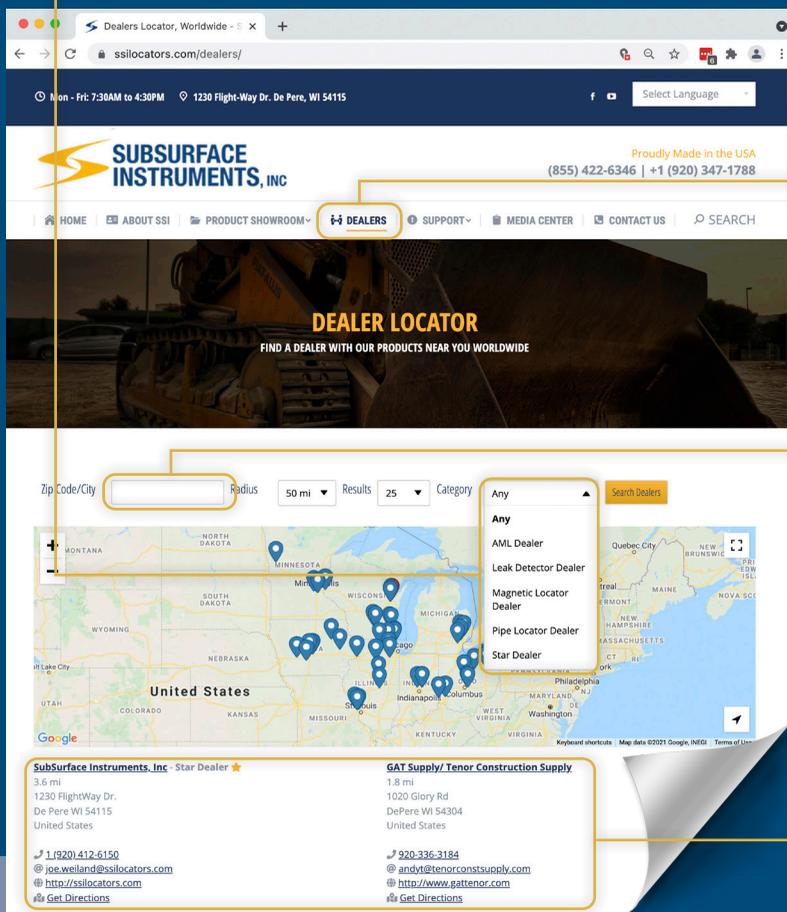
THANK YOU FOR ADDING SSI TO YOUR PRODUCT LINE
WE ARE EXCITED TO HAVE YOU ON OUR TEAM!

Dealer Locator

Dealers Web page

Search by Category

Customers search by category according to their needs or search "ANY" to find all our dealers in their area.



A complete data base of our dealers throughout the world

Enter City, Zip Code, State or Country

Displays a list of all dealers matching that criteria. Name, contact info, etc.

Your Information will be added to our dealers' database. We direct the sales to you and you are placed on the top of the searches in your area, according to quality of service and volume of sales.

Dealer searches are organized by distance, and product categories. The customer can select the filters on our search engine to narrow the results. Carrying our full line of products improve your chances to appear on every search.



Warranty Policy

Warranty registration is an important tool we utilize to keep a comprehensive database of our customers, the model and different versions of our instruments that are currently in the market, and a very accurate way to contact the end-users of our products, to inform them about updates, improvements, and replacements that might be needed by their underground locating units.

Only authorized SSI technical personnel can repair units, the instruments require specialized tuning and calibration to perform accurately and reliably. **Abuse, battery acid, and water damage are explicitly excluded from the warranty.**



Liability under these warranties is limited to repair, service, or replacement of the instrument, at the sole discretion of SubSurface Instruments. No other warranty is expressed or implied.



ALL MATERIALS LOCATORS

AML Pro & AML +

These products are guaranteed to be free of defects in materials and workmanship for 3 years. Please refer to the User Manual for more information.



MAGNETIC LOCATORS

ML-3S, ML-3L, ML-1 & ML-1M

These products are guaranteed to be free of defects in materials and workmanship for seven years to the original end-user or purchaser. SubSurface Instruments will provide the labor and parts needed to repair or replace any defects, and provide the shipment back to the owner.

Lifetime warranties made before March 1, 2011, will not be honored. Those warranties were made by a previous company. Any units manufactured within the last seven years will continue to be covered by this policy.



PIPE AND CABLE LOCATORS

PL-VF Series & PL-TT Series

These products are guaranteed to be free of defect in materials and workmanship for 1 year. Register to extend the warranty to 4 years. Please refer to the User Manual for more information.



WATER LEAK DETECTORS

LD-7, LD-8, LD-12, LD-15 & LD-18

These products are guaranteed to be free of defect in materials and workmanship for 5 years. Please refer to the User Manual for more information.



SPECIALTY MAGNETIC LOCATORS

MUL & BHG

These products are guaranteed to be free of defect in materials and workmanship for 1 year. Please refer to the User Manual for more information.



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+1 (920) 347.1788
info@ssilocators.com
www.ssilocators.com



Advanced Underground Locating and Detection Equipment