

RJM Equipment Sales, Inc

Water & Sewer Equipment



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All Radiodetection Locator Features:

- ⊙ **3 Year Warranty**
- ⊙ **Displays Pipe Direction with a large center line that stays parallel to the pipe.**
- ⊙ **Free Onsite Updates:** Connect the USB port and update firmware at your desk
- ⊙ **On-site training**
- ⊙ **Balanced:** Hangs vertically when balanced from the handle improving accuracy and preventing wrist strain.
- ⊙ **Utility Identification:** **Automatically** displays the signal strength to identify the utility
- ⊙ **Right & Left Arrows:** Arrows shorten as the locator gets closer guiding to the center
- ⊙ **Automatic TruDepth:** **Automatically** displays the depth **only** when aligned and near the pipe preventing display of incorrect depths.
- ⊙ **Onsite Calibration Check:** Check & document calibration from your computer.
- ⊙ **Dynamic Overload Protection:** Prevents signal overload in areas with strong signals.

New Radiodetection RD8100 Precision Locator:

(features above and below)

- ⊙ **New Guidance Mode:** The easiest and fastest intelligently combining 5 signals.
- ⊙ **5 Locate Modes:** Guidance, Peak + Guidance arrows, Peak + Null arrows, Null, Peak, extra sensitive Single Peak
- ⊙ **Remote Control of transmitter from 1400 feet.**
- ⊙ **Internal GPS and external GPS:** Easily save 1000 locations (optional)
- ⊙ **Power Filters:** "Power" mode detects signals using the first 16 power harmonics for extremely sensitive power detection. When the signal is too strong or not identifying separate cables, choose single harmonics with a single button push.
- ⊙ **Usage Logging:** Automatically store 5 year or usage data
- ⊙ **Li-ion battery:** 35 hours life, double life per charge of alkaline, lighter, better low temperature life, no battery corrosion or connection problems, greener choice (optional)
- ⊙ **Simultaneous Auto Depth & Auto Current Measurement:** to identify utilities.
- ⊙ **New 4 Khz Frequency & 5 Custom Frequencies**
- ⊙ **Withstands Water Jets:** IP65
- ⊙ **Enhanced Checking:** Comprehensive self test with locate circuit test, eCert onsite calibration check and documentation software, CALSafe ensures calibration schedule
- ⊙ **Precision Antennas:** Ferrite core antennas **diamond precision ground to 0.02"**, **aligned to 0.1 degrees** and secured for long term precision.
- ⊙ **Verify Accuracy:** Simultaneously compare the peak and true null antennas to determine accuracy instead of assuming.
- ⊙ **Dynamic Overload Protection:** Prevents signal overload in areas with strong signals like power substations.
- ⊙ **StrikeAlert:** Warns of nearby power cables.
- ⊙ **Simultaneous power and radio signal detection**
- ⊙ **Balanced:** Hangs vertically for more accurate locates and greater comfort
- ⊙ **Cable Fault Location:** Follow the arrows to the cable ground
- ⊙ **Current Direction:** Identifies when locating the utility that the transmitter is connected to.
- ⊙ **30% Stronger Signal:** Single peak antenna for 30% stronger signal.
- ⊙ Custom frequency selection



RD5000, RD7100, Marker Locators

RJM

800-620-4773

Radiodetection RD5000 — The Easiest Locator

- ⊙ **Guidance Mode:** Center the blank area in display bar. Left > < right arrows guide to center
- ⊙ **One Button Operation**
- ⊙ **Shows Pipe Direction:** Large line stays parallel to the pipe
- ⊙ **Easy Locate Tone:** Continuous tone left > < Pulsing tone right
- ⊙ **Value Priced:** Includes with rechargeable batteries, transmitter with rechargeable and alkaline batteries

RD5000 Display



New Radiodetection RD7100DL

- ⊙ **New Guidance Mode:** Intelligently combining 5 signals for the easiest, fastest and more accurate locating
- ⊙ **Peak Plus:** Peak+Guidance or Peak+Null antenna modes
- ⊙ **Precision Antennas:** Ferrite core antennas **diamond ground to 0.02"**, aligned to 0.1 degrees and secured for long term precision.
- ⊙ **Automatic Simultaneous TruDepth & Automatic Current Measurement**
- ⊙ **Withstands water jets:** IP65, withstand & 3 feet drop to concrete
- ⊙ **Verify Accuracy:** Simultaneously compare the peak and true null antennas to determine accuracy instead of assuming.
- ⊙ Left > < right arrows
- ⊙ **Frequencies:** 5 active, 3 passive, 4 sonde
- ⊙ **CPS frequency:** Finds cathodically protected water and gas pipes
- ⊙ **Li-ion battery:** 35 hour life, lighter, better low temperature life, no battery corrosion or connection problems, greener choice (optional)
- ⊙ **Internal GPS & User Logging:** (optional)
- ⊙ **Enhanced Self Test:** Tests locate signals, memory, display
- ⊙ **Live power cable warning**
- ⊙ **Locate:** Water pipes, tracer wires, cameras, sondes, cables, gas, power
- ⊙ **Custom frequency selection**
- ⊙ **Withstands water jets**



Radiodetection Marker Locators

- ⊙ **Locate the utility and marker simultaneously**
- ⊙ **Automatically selects last marker frequency when antenna is flipped out**
- ⊙ **20 feet maximum EMS marker depth, 4.9 feet marker ball maximum depth**
- ⊙ **Guidance mode:** Blank area in display bar shows the pipe position, large centered line rotates showing pipe direction, distance proportional arrows guide to the pipe, different left and right tones, auto depth & signal strength
- ⊙ **GPS built-in** with auto data logging and external GPS compatible (optional)
- ⊙ **Best frequency for the Application:** Up to **33 active frequencies**, 5 passive frequencies, custom select frequencies
- ⊙ **Li-ion battery standard**
- ⊙ **All RD7000 and RD8000 features**
- ⊙ **EMS Marker Locate Balls**

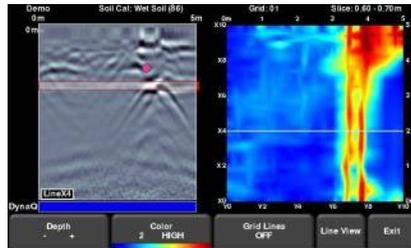


RJM GPR, PVC Locators, Metal Detectors

800-620-4773

Ground Penetrating Radar—RD1100 & RD1500

- 3 frequency ranges
- GPS & Wi-Fi
- On-site map view
- Depth Sections
- 3D data export
- Color touch screen
- Easy Operation



Plastic Pipe Locators

Create water pulse sounds with the RD550, RD500, Stopper or the Striker then track all types of water pipes with the RD547, Stethophon 04, A200. The Generator controls the Stopper and Striker. The Striker quickly attaches to outside of all pipes.



RD550



RD500



Stopper



Generator



Striker

Sensit Plastic Pipe Locator

- No connection to pipe needed
- Works in high conductivity soils like clay that limit ground penetrating radar
- Easy guided step by step operation
- Finds all pipe materials including: plastic pipe water services, sewer laterals, septic tanks, gas pipes.
- Sends and receives sound waves to determine pipe locations



Locatable Rodder

- Locate storm drains, sewer laterals, conduit, water services & mains
- Feed the traceable rod up to 1000 feet into the pipe in each direction and accurately locate the position and depth with Radiodetection locators.



RD316 Metal Detector

- Finds 6" CI valve boxes & manhole lids to **8 feet deep**
- Unique **Erase** feature removes interference nearby metal objects.
- Power line indicator
- **5-year warranty**
- Waterproof up to controls
- 100 hour battery life
- Volume and sensitivity controls
- Soft case included



RD312 Metal Detector

- Simple 2 button operation
- Advanced interference rejection with automatic sensitivity adjustment
- Depth: 6" valve lids to 16" deep, 25" manhole cover 25" deep.
- Value priced
- Water proof search head
- Angle and height adjustment with telescoping head



M130 Metal Detector

- Detects objects up to 36" deep
- Easily find valve lids and manhole covers
- 2.4 lbs., 38" long, search head 8" dia.



Water Leak Detectors

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800-620-4773

Sewerin A200 Water Leak Detector

- ◆ **Wireless microphone & headphones**
- ◆ **Instant playback of last 7 points**
- ◆ **Filters frequency differences**
- ◆ **Color touch screen** with easy controls
- ◆ Submersible microphone
- ◆ **Automatic background noise filters & 5 level maximum volume limiter**
- ◆ **Thumb sensing switch** for long life



Radiodetection RD547 Water Leak Detector

- ◆ Acoustic / Gas / Plastic pipe locator
- ◆ **Bright color touch screen**
- ◆ **Smart mode indicates degree of similarity to leak**
- ◆ **7 listen point history display**
- ◆ Noise filters, maximum volume limiter
- ◆ Withstands water spray, durable aluminum case
- ◆ **2-year warranty, 40 hour battery life**



Sewerin A100 Leak Detector

- ◆ **Extremely sensitive wind protected microphone** with insulated shell to block exterior noises.
- ◆ **Easily set noise filters in precise steps**
- ◆ Maximum noise limiter
- ◆ Identifies the minimum level at each location
- ◆ **Automatically scans and sets noise filters**
- ◆ Weatherproof
- ◆ **Recharges in the case**



A50 Water Leak Detector

- ◆ Wireless or wired headphones
- ◆ Wind protected microphones
- ◆ Weather proof, rechargeable batteries
- ◆ Displays current & last 2 readings
- ◆ Max. sound protection with 3 levels
- ◆ Background noise filters



T10 Leak Survey Tool

- ◆ Wireless or wired headphones
- ◆ **Thumb sensor eliminates switch wear and noises**
- ◆ **8 noise filters**
- ◆ **Maximum noise limiter**
- ◆ **Wind shield**



Stethophon Water Leak Detector

- ◆ **Wired or wireless headphones**
- ◆ Displays current & previous readings
- ◆ **8 filter ranges, max noise limiter**
- ◆ Simple operation
- ◆ With 4' rod & second mic: **\$1878**



Water Leak Correlators

1. **SeCorr 08**: Simple and easy
2. **SeCorrPhon**: Combined simple correlator and professional leak detector
3. **SeCorr 300**: Completely digital correlator out performs others



Water Leak Loggers

- ◆ **Most sensitive logger, detects leaks to 1600'**
- ◆ **Least labor to survey pipelines**
- ◆ **Automatically listens when other noises are minimum**



RJM Magnum, Gatorcam4, Ratech Cameras

800-620-4773



Magnum

- Digital zoom & pan
 - 10.4" daylight display
 - 1-touch USB recording
 - Counter with 6 screen positions
 - Titles, Voice recording, counter
 - Internal battery
 - Reel mounting
 - Easy operation
 - 512 hz locating sonde
 - Weatherproof option
- 200', self leveling



Gatorcam

- Controller withstands water spray
 - 1 touch video / photo
 - USB & CF recording
 - Digital zoom, pan, rotation
 - Adjustable focus
 - All day internal battery
 - Lightweight controller, 12 lbs.
 - Protective glass screen
 - Time, date and distance counter
 - 500' extra stiff pushrod available
- 200', self leveling



Elite SD

- 10.4" LCD
 - SD card recording
 - Controller only 10 lbs.
 - Titler, counter, date, time
 - Gel filled pushrod
 - Voice recording
 - Camera test port
 - Locally serviced
- Elite SD, 200', SL



Options

- USB & Hard-drive recording
- Internal battery
- USB recording
- WiFi:
- Straight view crawlerPan & Tilt push camera

Other Ratech Cameras

- Laptop camera
- Tablet camera
- SD Jetter camera
- Universal 6"-12
- HDPE 3"
- HDPE 4"
- Trap Skid
- Custom aluminum skid

Insightvision Cameras

- 1-touch USB recording
- Made in USA
- 6 position distance counter
- Internal rechargeable battery
- 1.3" diameter self leveling camera 480 x 720 with 24-48 hour exchange program.
- Weather proof keyboard
- 200', 300' spiral wound pushrod resists kinks
- Rugged case, 512 hz sonde



Jetcam



VUTEK



Opticam: **\$5995**

Portable Pan & Tilt Camera

- 10" touch screen
- Inspect 6-18" pipes to 800'
- 512 hz sonde
- Windows 7 Apps
- Wireless video to tablet
- Compact power level wind reel
- Photo & video capture
- 6 wheel drive
- Value priced



Odor Control Biofilters

- Lowest overall cost
- 6 - 8 year media life
- No chemical costs
- No carbon replacements costs
- All natural & regenerating
- Low maintenance
- All HDPE or stainless steel in contact with odor



Vent Biofilter
2 - 20 cfm



Manhole Biofilter
22" - 36"



Lift Station Biofilter
12-350 cfm



Wastewater Treatment Plant Biofilter
500—15000 cfm

Boring & Pipe Bursting

- Trenchless installation of water mains, water services, sewer laterals, sewer mains, conduit, ...
- Accurately track and steer
- Uses rods and / or cable
- Simple and durable
- Affordable



- PD-22:** Pipe Burst 3/4" & 1"
- PD-33:** 1/2" - 6" pipes, 20" x 20"
- PD-4:** 1/2" to 4" pipes
 - 9 feet per minute
 - 37,714 pounds force
- PD-6:** 1/2" to 8" pipes
 - 7 feet per minute
 - 84,822 pounds force
- PD-7:** 112,000 lbs. force

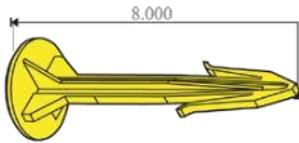
RJM Utility Markers, Tracer Wire

800-620-4773

Rhino Utility Markers

◆ Tracer wire isolation / ground plates

- ◆ “HideOut” pop up tracer wire pedestal
- ◆ Tracer wire posts
- ◆ Posts: Triview, fiberglass, hybrid
- ◆ Surface markers for soil, curbs, streets
- ◆ Hydrant “out of service” signs
- ◆ Standard and custom signs
- ◆ Flags, locate paint

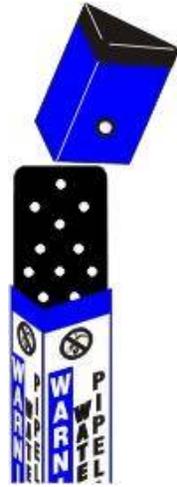


Surface Markers for soil, curbs, streets

Pop up tracer wire pedestals with switchable ground / isolation terminals

Tracer wires locate more accurately and farther if grounded on the other end and at the connection point.

1. Connect to terminal
2. Lift the plate to locate
3. Lower when done



Tri-view Tracer Wire Posts

Trace Safe Tracer Wire Since a tracer can't be replaced, choose the best: Trace Safe.

- Trace Safe Tests Summary by Gas Technology Institute, November 1, 2012
- **Overall:** “Trace-Safe outperformed the other wires ...”
- **Tensile Strength:** Trace Safe scored highest with and without kink, 1775 lbs.
- **Field Tests:** Trace-Safe was the only wire field HDD tested that did not show significant damage.
- **Corrosion Test:** Trace Safe wire continuity was not affected after 2000 hours exposure to salt spray.
- **Scrape Resistance:** Trace-Safe scored significantly higher than the traditional HDPE or LDPE coating.
- **Long Term Choice:** Trace-Safe was the only wire selected to remain in the ground for future locates.

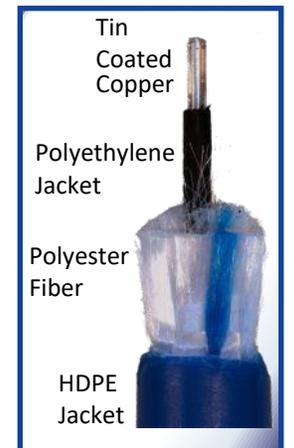
Connectors

- ◆ Locate connection screw
- ◆ Cover to keep locate connection screw clean
- ◆ Waterproof gel-filled
- ◆ Quick snap together connectors
- ◆ Fits Trace Safe and #12 wires



Tracer Wire Advantages Compared to Ductile Iron & Cast Iron Pipes

- ◆ Trace-Safe locates up to **20 miles** compared to 100's of feet on CI
 - ◆ Trace-Safe locates up to about **75 feet deep** with RD8100 or RD7000
 - ◆ Low frequencies for **accurate, easy locates.**
 - ◆ **Locate many services and mains from one location point**
- Locating CIP & DIP requires high frequencies to induce into the next pipe section which also induces into other utilities causing multiple signals, miss marked locates, locates errors and damages.



\$0.22 / foot

12/21/2016