

Underwater Search Equipment it *Pays* to own



Remote Operated Vehicles

Underwater Video Systems

Cable & Pipe Trackers

Side Scan & Scanning Sonars

Sub Bottom Profilers

Pingers & Transponders

Receivers & Interrogators

Diver Held Metal Detectors

Boat Deployed Metal Detectors

2017 Catalog

For more than forty years JW Fishers has specialized in the design and manufacture of reasonably priced, high tech underwater search equipment which is in use worldwide.

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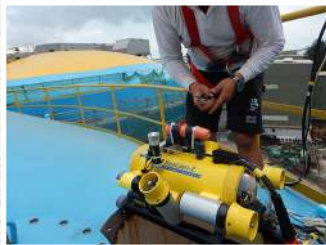


JW Fishers offers two versatile ROVs

Visit our web site for comprehensive data sheets on all products.

SeaLion-2 ROV

The SeaLion-2 is the next generation of JW Fishers very popular SeaLion ROV. It is ideally suited to a variety of applications including pipeline inspections, river and ocean searches, dam surveys, oil and gas platform work, fish farming, and homeland security operations. The SeaLion-2 is equipped with four high performance motors that make it more powerful than the SeaOtter-2. Even more thrust is available with a "Power Boost" feature that provides the ROV with an extra burst of speed when heavier currents are encountered. Other advantages are 1,000 foot depth rated housing and the ability



"The SeaLion 2 was very useful in performing large tank inspections." - Hong Kong Works of Diving

to operate with cable lengths up to 1,500 feet. The SeaLion -2 has front and rear facing color cameras with pan and tilt. Illumination for the front camera is provided by two 2200 lumen LED lights. A ring of high intensity LEDs provide lighting for the rear camera. System controls are cleanly laid out in a high impact, waterproof case with built in 15 inch ultra bright LCD monitor. A handheld controller attaches to the console to control lights, cameras, and thruster power.

Options: side cameras, computer control interface, manipulator arm, Cable Management System, scanning sonar, built in DVR, a GoPro® HD camera and the RMD-1 metal detector. When equipped with the metal detector the ROV becomes a high tech search system capable of locating weapons, unexploded ordnance, pipelines, buried treasure, and other metallic objects.

High performance



"...performed flawlessly. I've operated many ROVs, I am very impressed with the SeaLion's power and maneuverability." - Jack Mead, UK



SeaOtter-2 ROV

The SeaOtter-2 is the next generation of JW Fishers popular SeaOtter ROV. This ROV is best for working in areas with low currents. It is well suited to a variety of applications including piling inspections, river and lake searches, dam surveys, tank inspections, fish farming, and homeland security operations. The SeaOtter-2 can dramatically reduce search time, and the risk and high cost associated with diving operations. This ROV has front and rear facing color cameras, each with pan and tilt. Illumination for the forward



"We are really impressed with the SeaOtter's performance." - Joe Plano, NY

looking camera is provided by two 2200 lumens LED lights. Lighting for rear camera is provided by a ring of high intensity LEDs. Controls for the system are cleanly laid out in a high impact, waterproof case with built in 10.4" LCD monitor. A handheld controller attaches to the console to control lights, cameras, and thruster power.

Options: external DVR for recording video, manipulator arm, scanning sonar, Cable Management System, a GoPro® HD camera and remote metal detector. When equipped with the metal detector the ROV becomes a high tech search system capable of locating weapons, unexploded ordnance, pipelines, buried treasure, and other metallic objects.

Economical



"We have just located the major part of a Spanish galleon cargo in 180 ft of water, we would not have located it without the SeaOtter." - Steve Morgan, Philippines



with a complete line of accessories.



Visit our web site for comprehensive data sheets on all products.

Manipulator Arm



The single function manipulator arm with open/close claw makes your ROV more than just an underwater eye.

Side ROV Cameras



Two color side cameras, with LED ring lights, can be attached to the SeaLion-2. Operator can view each of the four cameras individually.

RMD-1 Remote Metal Detector



The RMD-1 metal detector attaches to any ROV and makes it a roving metal detector. Find buried pipes, cables, anchors or tools, quickly and easily.

DVR digital video recorder



The DVR option allows recording of video from the SeaLion-2's cameras to a SD card which holds 12+ hours of video. The recorded video (which also includes any recorded audio) can then be played back on the ROV's monitor or on any other video monitor.

The SD card is removable allowing the video to be reviewed on any computer. If the On-Screen-Display option is installed on the ROV, the video overlay will also be recorded on the DVR.

Basic Spare Parts Kit



Essential parts to make field repairs on your ROV at any time.

Computer Controlled Option

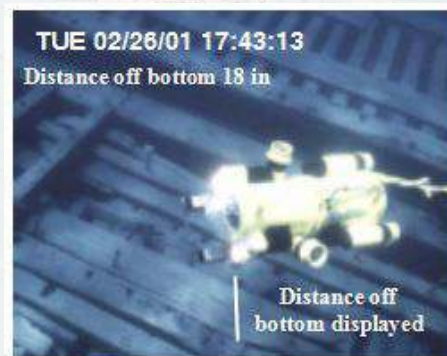


This consists of an interface box and API (Application Program Interface) that enables a programmer to write software instructions to operate the SeaLion-2 directly from a computer.

The computer replaces the PS2 controller. A sample program is provided that allows the operator to control the SeaLion-2 with the mouse by moving sliders on the PC screen (see screen shot above). The display also shows any On-Screen-Display information. Code for the sample program is included. This option is only recommended for experienced programmers.

Sensor Packages Available

- On Screen Display (compass, depth & temperature)
- Video text overlay
- Auto depth
- Distance off bottom display
- Auto distance off bottom



Towed, drop and diver-held cameras

Visit our web site for comprehensive data sheets on all products.

TOV-2 Towed Video

The TOV-2 is the next generation of JW Fishers very popular towed video system. The upgrade includes two 1500 lumen LEDs for lighting, kevlar reinforced tow cable, sleeker body design and a color camera. The towed video provides a cost effective way to perform large scale underwater searches. Rather than deploy divers to swim extensive grid patterns looking for lost objects or conducting benthic surveys, deploy the TOV-2 and view the underwater environment from the comfort and safety of a boat. Use the towed video to inspect an area or verify a target before entering the water. With a 0.8 lux color camera and two powerful LED lights the TOV-2 provides quality underwater images even in low visibility or low light conditions. This versatile system can also be deployed as a horizontal or vertical drop camera. The video picture can be viewed topside on the VRM-1, monitor, or computer (with the use of a video capture card), and easily recorded to a disk. This high performance underwater camera is in use by dive rescue groups and law enforcement agencies worldwide as well as NOAA, and various state and federal departments.

Options: PAL color camera (Europe), cable to 1,000 feet, VRM-1 digital video recorder/monitor, 220 transformer, DDW-1 depressor wing and inverter for 12 volt DC operation.



Towed commercial camera for large search areas



"The TOVs are workhorses and we use them regularly in our projects" - Mark Finkbeiner, NOAA Office for Coastal Management

DV-2 Drop Video

The DV-2 is the next generation of JW Fishers very popular drop video system. The upgrade includes a smaller body, two powerful 1500 lumen LEDs, a kevlar reinforced tow cable and a color camera. The DV-2 is the perfect tool to view an underwater site or search a small area. Difficult or dangerous dives can be avoided by deploying the drop camera to search for lost objects, sunken vessels, submerged vehicles, or to assist in any of the underwater operations normally performed by public safety dive groups. The DV-2 is especially useful for deep water search operations that may involve diving beyond no decompression limits; saving time and eliminating risk to divers. The camera housing has a handle which makes it easy to be carried by a diver for filming underwater sites or evidence. The video picture can be viewed topside on the VRM-1, monitor, or computer (with the use of a video capture card), and easily recorded to a disk. The DV-2 comes with 150 feet of cable, a 0.8 lux color camera, two 1500 lumen LEDs and a built in leak detection circuitry. The system is powered by 120 volts AC which allows unlimited operating time with a small generator.

Options: cable up to 1,000 feet, PAL color camera (Europe), VRM-1 digital video recorder/monitor, 220 transformer and inverter for 12 volt DC operation.

Commercial grade drop video camera



"The DV-2 was essential in inspecting an intake pipe in a local reservoir" - Robert Nickerson, Sterling Fire Department Dive Team



Powerful LED lights!

VRM-1 Video Recorder and Monitor

The VRM-1 has a video monitor and a built-in Digital Video Recorder (DVR). Any of JW Fishers video cameras can be connected to the VRM-1, and with an available interface cable other manufacturers video cameras can be displayed and recorded. A microphone is provided allowing audio to be recorded with the video. The control panel of the VRM-1 contains switches and controls to operate the camera, lights, and audio. The video and audio is recorded on a 16GB SD card (included) for up to 12 hours. Recorded video can be played back on a computer.

Options: interface cable for cameras from other manufacturers, GPS interface, and text overlay.



Microphone Included



VRM-1 Video Recorder and Monitor

for every search and inspection operation.



Visit our web site for comprehensive data sheets on all products.

DHC-2 Diver Held Camera



JW Fishers DHC-2 is an upgraded version of Fishers popular DHC-1. The next generation unit is now equipped with two 1500 lumen LED lights. The diver-held camera is a ruggedly built underwater video system designed for use by commercial diving companies, law enforcement agencies, military units and scientists. It is the perfect tool to perform a bridge inspection, examine the hull of a ship, view the face of a dam, capture an underwater crime scene, or film evidence.

The DHC-2 sends live video from the underwater camera to the surface for viewing and recording. Topside personnel can make on the spot decisions about work that needs to be done to an underwater structure or how to proceed with a recovery operation.

The DHC-2 is constructed of corrosion proof PVC and depth rated to 500 feet. The two powerful 1500 lumen LED lights provide illumination for the 0.8 lux color camera. A switch on the housing lets the diver control the camera and the amount of light on the subject. Video feed from

"Gives us great underwater pictures of the dam face which helps us make decisions on what repairs may be needed."

- Kevin Reed, Buchanan Dam, TX

the camera can be viewed topside on the VRM-1 digital video recorder/monitor, tv, a video monitor, or computer equipped with a video capture card. Record the video to an external DVR. The complete system is surface powered by 120 volts AC to provide unlimited operating time. The DHC-2 comes with a color camera, two LED lights, and 150 feet of cable.

Options: PAL color camera (Europe), VRM-1 digital video recorder/monitor, cable up to 1,000 feet, 12 volt inverter, and a 220 volt transformer, external DVR.

Commercial diver held inspection camera



"The DHC-2 was very useful and easy to operate when collecting sediment samples for chemical analysis" - Lora Pride, CH2M

MC-1 Mini Camera



The MC-1 mini camera is so compact and light weight it can easily be mounted on a diver's helmet or lowered into a pipe for an internal inspection.

Attaching the camera to the helmet allows the surface support team to see what the diver sees while performing an inspection or repair operation. Connect a recorder to the topside monitor and a permanent record of the job can be made for the client. Attach the MC-1 to a pole handle and surface personnel can use it to inspect seawalls, bulkheads, ship hulls, and any other job where the camera can be maneuvered from above, eliminating the need to deploy a diver. The MC-1 comes with a corrosion proof PVC housing depth rated to 500 feet, a black & white camera, 150 feet of cable and is surface powered by 12 volts DC. Two light systems are available; a high intensity internal LED ring light or powerful external 100 watt halogen lights (or both).

Options: cable up to 1,000 feet, internal light ring, external light(s) with handle, pole mount kit, color camera (PAL or NTSC), VRM-1 digital video recorder/monitor, and power by 120 or 220 volts AC.

"We used the mini camera to view several hundred feet inside of a pipe. The MC-1 worked beautifully" - Roger Bankston (SeaWorld), FL

Very versatile miniature camera



MC-1 helmet mounted

Two external 100 watt bulbs with handle



Internal LED ring



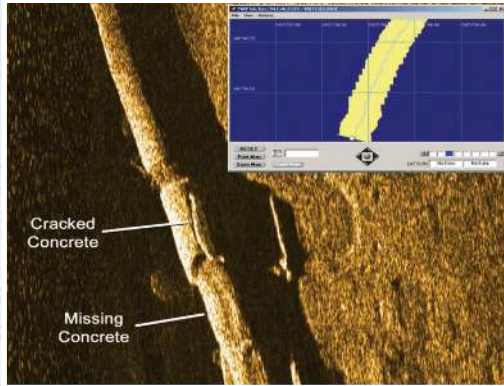
Pole deployment



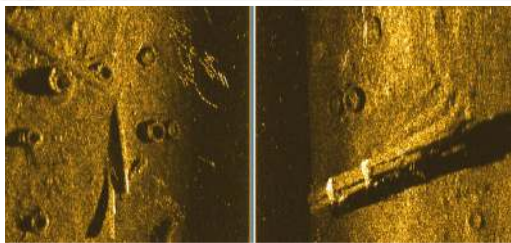
"The MC-1 we purchased last year is doing such a great job for us, we decided to get another one" - Ross Powell, Hull Diving; Bahrain

Start your search by *Removing the Water* with side scan sonar

Visit our web site for comprehensive data sheets on all products.



Cracks in concrete covered pipeline with map showing boat's path and area covered



Mud covered tires and steel banded pilings

Single frequency side scans can be upgraded to the dual frequency system at any time.

Choose from four different systems: 100K, 600K, 1200K, or Dual Frequency

SSS-100K Side Scan Sonar

The 100K low frequency system is best for wreck hunting and general search applications such as locating pipelines, logs, rock outcrops, large propellers, and sunken vessels. The SSS-100K has excellent long range capabilities of up to 1,800 feet per side (3,600 foot swath) for locating large ships.

SSS-600K Side Scan Sonar

The 600K high frequency system has high resolution over ranges up to 250 feet (500 foot swath). Ideal for law enforcement and dive rescue operations because it shows even soft targets such as drowning victims and clothing. This system is also popular with salvors and archaeologists searching for ancient shipwrecks because it can "see" soft targets like decaying wood.

SSS-1200K Side Scan Sonar

The 1200K high frequency system has very high resolution over ranges up to 80 feet (160 foot swath). Ideal when maximum resolution (detail) of the target is needed. This system can "see" anything that the 100K and 600K see in the 100' and lower range settings, but will produce the image in more detail.



Best search tool if the target is not buried

Side scan sonar is one of the most effective tools for underwater exploration because it can

search a large area quickly and produce a detailed picture of

anything on the bottom, regardless of

the water clarity. When looking at a side scan image it appears as if the water has been removed and the operator is getting an unobstructed view of the ocean floor, lake bottom, or river bed. High resolution images are sent from the towfish to a topside laptop computer (included) for display and storage. An optional Microsoft Surface® Tablet mounted into control box lid is available for small, open-boat operations. Fishers SONAR VIEW software gives the operator complete control over the side scan's operating parameters. Choose between different scan ranges and color schemes. With included GPS position coordinates are automatically captured with the side scan data. Click the mouse on a target, and position coordinates are displayed on the screen. Annotations can be added to images and stored.

Options: Cable Management System, map coverage software, DDW-1 depressor wing, Microsoft Surface® Tablet, cable connectors, and extra cable (up to 1,000')



Bike on river bottom

Dual Frequency Side Scan Sonar

A dual frequency side scan offers the best features of both low and high frequency systems in one towfish. The operator can switch between high and low frequency at any time. Typically, searches are done with the low frequencies for the longer range. When a target is identified, a close pass is made with the high frequency to get a higher resolution image. Any combination of any two different frequencies are available:

•SSS-100K/600K •SSS-100K/1200K •SSS-600K/1200K

"We were amazed at the resolution of the images. You not only could see the pipeline; but you also see breaks and cracks in the concrete casing. In another section of pipe we even saw a small pipeline crossing over our larger pipeline which was not there before the storm" - David LeBlanc, New Orleans, LA



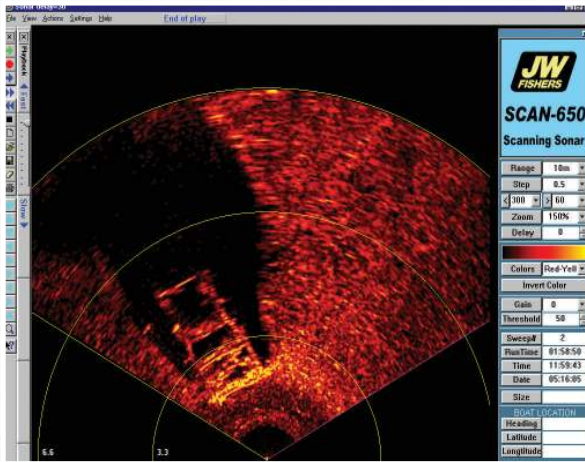
Optional Microsoft Surface® Tablet mounted in control box

or the more economical scanning sonar.



Visit our web site for comprehensive data sheets on all products.

SCAN-650A & B Scanning Sonar



Car on river bottom
(note large black shadow)

**Sonar tool for
locating targets
on the bottom**



SCAN-650NB
(Narrow Beam for
higher resolution)



**SCAN-650A for
larger ROVs or
“stand alone”
search systems**

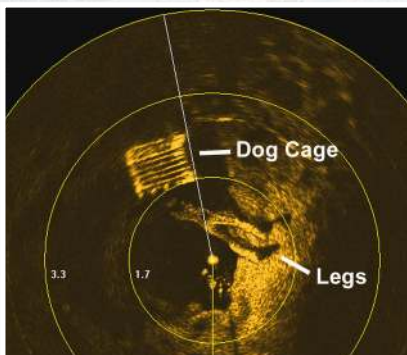
**Sonar image of area
around pier**



**SCAN-
650B for
smaller
ROVs**

Scanning sonar is an excellent tool for a variety of search operations because it produces a “picture” of the underwater environment regardless of water clarity. Scanning sonar is an ideal alternative for areas that are not conducive to a towed system, such as through ice or man made lakes. Fishers SCAN-650 is a high performance scanning sonar that can be deployed from a boat by mounting the transducer on pole handle for shallow water operations or attaching the sonar head to a tripod and lowering it to the bottom for sharper images or deeper water OPS. This sonar can also be attached to almost any ROV to locate targets beyond the visual range of the camera, or for use as an obstacle avoidance system in low visibility environments. The sonar

***“This sonar helped us find
the victim and make a suc-
cessful recovery quickly”
- Paul Romano, Tactical
Unit, Rochester, NY P.D.***



**Simulated body on river
bottom with dog cage marker
attached to surface buoy to
guide diver to drowning victim**

beam sweeps the bottom 360 degrees (or any portion of the circle) around the transducer. Objects on the bottom that are within the sonar’s scanning range, are displayed on the top-side computer. The operator decides how far to scan by selecting one of 5 range settings. Available range settings are 5, 10, 20, 40, and 60 meters. The SCAN-650 “A and B” is also available in a narrow beam configuration for a higher resolution image (SCAN-650NB). Scanned files are stored on the computer’s hard drive along with the boat’s GPS position, time, date, and other pertinent data. Files can be played back at any time, and screen shots captured for printing or e-mail. The software allows post-processing of data for editing and merging files. A sizing tool is used to determine the dimensions of an object. The SCAN-650 package includes the sonar head and electronics in an underwater housing, 150 feet of cable, topside sonar processor box, software, and USB interface cable to your computer.

Options: narrow beam, Microsoft Surface® tablet, cable lengths up to 2,000 feet and a carry case.

**Two different mounting
configurations shown below**



SCAN-650A
(mounted on pole)



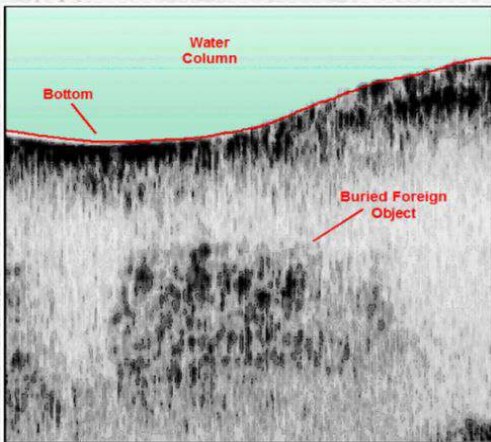
SCAN-650B
(mounted on ROV)

See what's under the ocean floor with a Sub Bottom Profiler.

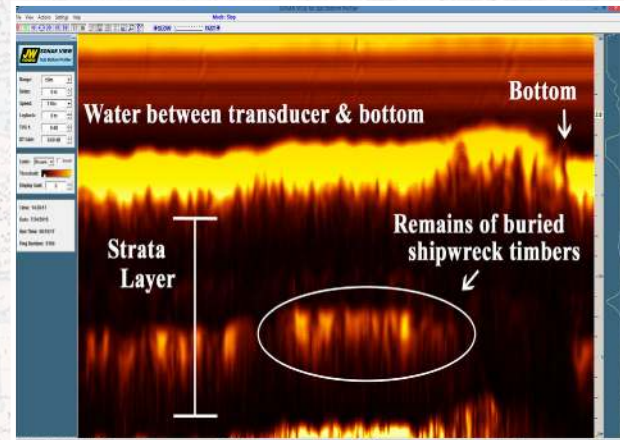
Visit our web site for comprehensive data sheets on all products.

SBP-1 Sub Bottom Profiler

Fishers Sub Bottom Profiler (SBP-1) is the latest addition to our Sonar family. This piece of equipment is used to identify the thickness of the different strata layers below the ocean floor. Most importantly it will show any density disturbance within a strata layer; thus indicating that there is something foreign underneath the surface. A transducer releases a sound pulse vertically downwards through the sea floor, and a receiver records the return of the pulse once it has been reflected off objects beneath the sea floor. Unlike a simple echo sounder, parts of the sound pulse will penetrate the sea floor and be reflected off of the different sub-bottom layers or strata layers.



Fishers' SBP-1 has an advantage over most competitors as this unit is either pole mountable for shallow water searches or boat tow-able for search in deeper areas allowing superior versatility for the end user.



The SBP-1 system includes the sonar towfish constructed of corrosion proof, high impact PVC, 150 feet of Kevlar reinforced cable (additional lengths are available up to 1,000 feet), the topside sonar processor box and laptop computer pre-loaded with the JW Fishers SONAR VIEW for Sub Bottom Profiler software. The SONAR VIEW software gives the sub bottom operator complete control of all system functions with easy to use pull-down menus and icons on the screen. The 36 inch long by 24 inch wide towfish provides a very stable platform for the sonar transducer allowing the best possible images to be obtained. The SBP-1 is capable of penetrating up to 130 feet into the seabed. The sonar beam reflects off any solid objects below the sea floor and is sent topside for display and storage on the computer. An image is produced of any target of different density than the surrounding substrate. With included GPS, images and positioning coordinates can be stored in memory for playback and post processing at any time in the future. Small file sections including screen shots can be copied for e-mailing.

Options: Extra cable (up to 1,000'), cable connector at fish, Cable Management System, boat tracking software and Fishers' DDW-1 Deep Dive Wing

"Your Sub Bottom Profiler is an "amazing" piece of equipment" - David Frazier



Mark a target's position so it can be *Quickly* relocated in the future.



Visit our web site for comprehensive data sheets on all products.

Sonar Pingers and Transponders

Fishers acoustic pingers and transponders make it quick and easy to relocate an underwater site or piece of equipment. The pinger continuously transmits a sonar signal, while the transponder transmits only when it is activated by an interrogator. A diver equipped with a pinger receiver or interrogator (see below) can pick-up the acoustic signal and follow it directly to the pinger or transponder. Pingers and transponders are available with different transmit frequencies so many units can be deployed in the same general area without causing interference from each other. Pingers and transponders can operate for a few days to several months (or longer), depending on the selected output power and frequency. Pingers are available in both medium frequency (20-50 kHz), for a 2 to 3 thousand foot range, or low frequency (11-16 kHz) for a 3 to 6 mile range. The pingers are also available in single frequency or multi-frequency.

"These pingers are very reliable and easy to operate" - Michael Arseneau, Dept of Environment

can transmit many different frequencies which are operator selectable. Pingers transmit a frequency continuously as soon as they are deployed. Transponders do not begin transmitting until activated by the interrogator.

Options: larger housings for more batteries to increase the operating time and a carry case. PC software and delayed start timer are available for the low frequency pingers.



**Mid
Frequency
Pinger
or Transponder**



**Low
Frequency
Pinger**

Pinger Receiver and Interrogator

The PR-1 Pinger Receiver and DHI-1 Diver Held Interrogator are highly advanced acoustic receivers. The PR-1 is capable of locating any pinger transmitting a frequency between 3 kHz and 97 kHz. The DHI-1 first activates the transponder then pinpoints it's location and shows the distance. The PR-1 and DHI-1 can be carried by a diver or deployed from a boat.



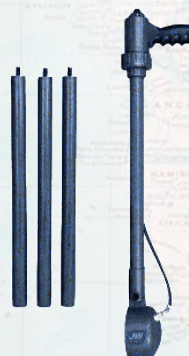
**PR-1 and
DHI-1 are
the same
size**

"...great service and outstanding product" - Anuj Sehgal, IURS

Operating the receivers is easy; select the frequency to be located and scan the area with a 360 degree sweep. Audio and visual readouts alert the operator to the presence of a signal. Once a pinger is detected the diver swims in that direction guided by a compass mounted on top of the unit. As the receiver gets closer to the acoustic source, more LEDs are illuminated on the light bar. To locate another pinger or transponder, simply change the frequency using the control on the front panel. The receivers are powered by an internal rechargeable battery pack that provide 30 continuous hours of operation for the PR-1 and 20 continuous hours of operation for the DHI-1 before recharging. Both 120 volt AC and 12 volt DC battery chargers are included.

Options: boat deployment kit, 200 meter depth rated housing, dual underwater earphones, 220 transformer to charge from 220 volts, and a carry case.

Operating the receivers is easy; select the frequency to be located and scan the area with a 360 degree sweep. Audio and visual readouts alert the operator to the presence of a signal. Once a pinger is detected the diver swims in that direction guided by a compass mounted on top of the unit. As the receiver gets closer to the acoustic source, more LEDs are illuminated on the light bar. To locate another pinger or transponder, simply change the frequency using the control on the front panel. The receivers are powered by an internal rechargeable battery pack that provide 30 continuous hours of operation for the PR-1 and 20 continuous hours of operation for the DHI-1 before recharging. Both 120 volt AC and 12 volt DC battery chargers are included.



**Boat deployment
kit**

Very sensitive commercial grade systems, in use by the military



Diver with PR-1

"The PR-1 has proved to be a very effective tool to relocate U/W sites" - S. Morelli, Society of Industrial Explosives

Tracking cables and pipes just got *Faster and Easier* with Fishers CT-1 and PT-1.

Visit our web site for comprehensive data sheets on all products.

CT-1 Cable Tracker

JW Fishers CT-1 cable tracking system was specially designed to locate deeply buried power and communication cables. The CT-1 can locate cables on land and underwater. In addition to locating and tracking cables, the CT-1 can also find breaks or faults in the line. The cable tracking system consists of two parts, a

"The CT-1 works extremely well, it has saved us a significant amount of time and money." - Paw Cortes, Consulting Team Offshore, Denmark



Signal Injector

"We have contracts with power companies to locate their submarine cables and the CT-1 has made the job so much easier." - Bill Castle, Hydro Marine, NJ

hand-held Probe and the Signal

Injector box. The box is attached to the shore end of the cable and a signal is injected into the line. A diver carrying the Probe can detect the signal and follow it. The Probe has a waterproof earphone that provides an audio alarm and an LED light bar for visual readout. As the diver gets closer to the cable, the audio signal gets louder, and more LEDs illuminate in the light bar. When tracking live power cables it is not necessary to inject a signal onto the line. The Probe will detect the 50 Hz (Europe) or 60 Hz (USA) signal. If the power cable is dead or the cable is fiber optic, then a signal must be induced. In most cases, the Probe will begin to detect the cable from a significant distance. The detection range is often so great that when working in shallow water it is not necessary to deploy a diver to locate and track it. Working from a boat with the nose of the probe pointed down over the side of the boat, the cable can be tracked from the surface. When tracking cables on the bottom, a triangulation technique allows the diver to determine the approximate depth of burial of the cable. The Probe has a rechargeable battery pack that powers it for 6 to 9 hours. The Signal Injector box is powered by 120 volts AC. The box can be powered from 12 volts DC with the use of an inverter and from 220 volts AC with the use of transformer.

Options: carrying case for probe and signal injector, and 220 volts AC transformer.

Detects and tracks cables deeper than any metal detector



Cable Tracker Probe



Rugged design for commercial use

"The CT-1 worked great giving strong readings while we tracked the cable for over 2 Km. It really exceeded our expectations." - Nigel Fluit, Hong Kong

PT-1 Pipe Tracker

Pinpoints and Tracks Pipelines up to 16 feet deep



The PT-1 is a pinpointing magnetometer designed to locate and track deeply buried pipelines and steel armored cables. It works equally well on land and underwater. PT-1's advantage over metal detectors is its greater detection range. Its advantage over other magnetometers is its directional detection capability which means the PT-1 can quickly guide the operator directly to the target. Another advantage of the PT-1 is that it can be used in areas with iron or steel structures nearby, such as bridges and ships, and still pinpoint the location of targets in close proximity to them. It can even detect steel objects encased in concrete, like rebar and pipelines. Audio and visual readouts alert the diver when a target is detected. The magnetometer has a rechargeable battery that will power it for up to 15 continuous hours

of operation. The PT-1 comes complete with underwater earphone, 12 volt DC and 120 volt AC charging transformer.

Options: dual underwater earphones, carry case, 220 volt AC charger.

"the PT-1 was instrumental in locating and tracking over 800 feet of pipeline" - Robert Greenspan, MIDCO Diving

"...proved very effective locating buried steel sheets & beams, even close to pilings." - Conrad Lesley, Q&S Engineering



Commercial diver tracking an "outfall" pipe



Ideal for tracking pipelines underwater

Fishers hand held metal detectors are the *Most Powerful* you can buy.

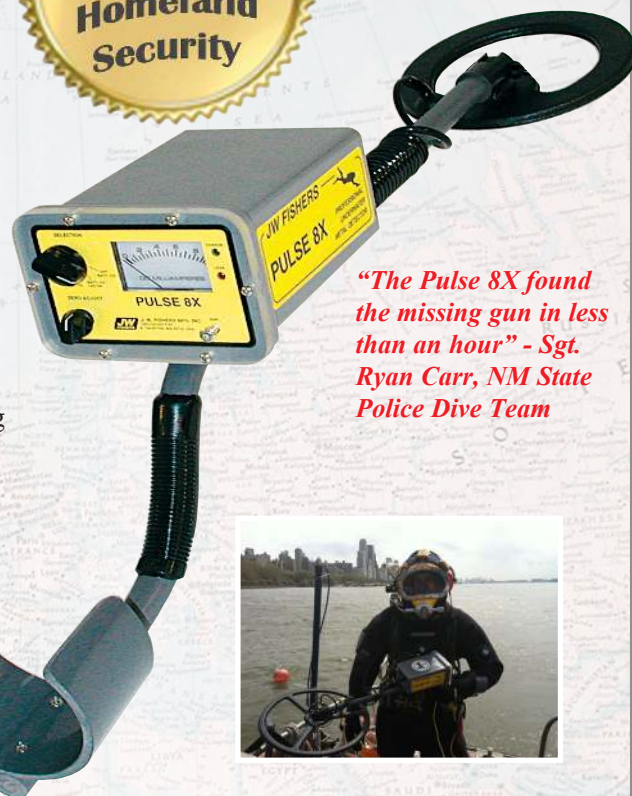


Visit our web site for comprehensive data sheets on all products.

PULSE 8X Hand Held Metal Detector

With a 200 foot depth rated housing and 6 foot maximum detection range, the Pulse 8X is JW Fishers top of the line model. This commercial-grade metal detector is in use by professional archaeologists, commercial diving companies, law enforcement agencies and military units worldwide. The Pulse 8X comes with a complete accessory package that includes everything needed for land and water hunting. Detects all metals from coins and jewelry, to anchors and cannons; on land and underwater. Powered by an internal 9 volt rechargeable battery, the detector will easily run all day on a full charge. Unlike some other detectors, this machine will not give false readings in mineralized environments, such as salt water, around coral reefs, near high iron rocks, or on black sand beaches.

Options: for the Pulse 8X include a connector for changing coils and an extensive line of interchangeable search heads. Two of these coils can be deployed from a boat which means, the detector's electronics unit stays topside with the operator, and a large detecting head with a long cable is lowered to the bottom. Search for pipelines, outboard motors, anchors and sunken treasure, without ever getting wet!



"The Pulse 8X found the missing gun in less than an hour" - Sgt. Ryan Carr, NM State Police Dive Team

PULSE 6X Hand Held Metal Detector

The Pulse 6X has the same heavy duty construction as the 8X, and many of the same features, but a shorter detection range. This detector's single knob control makes it extremely easy to operate. Ideal for novice hunters and new divers - just turn on and go! One key feature of the 6X is that it can be upgraded to an 8X at any time. All of the options available with the 8X can also be added to the 6X.

SAR-1 Search and Recovery Detector

JW Fishers SAR-1 was specifically designed for military, law enforcement and public safety dive teams to locate metallic objects in low visibility environments. The "snareless" SAR-1 has a streamlined design with no external wires or cables which makes this detector the ideal tool for work in environments with potential entanglement hazards.

The SAR-1 indicates the presence of metal by both vibration in the handle and on the ultra bright LED display. The unit works equally well in fresh or salt water, and detects a variety of targets including shell casings, handguns, rifles, shotguns, knives, UXO, mines, and any type of explosive device containing metal. This high performance Pulse Induction metal detector detects both ferrous and nonferrous metal objects, while ignoring minerals in the environment. The detector will not give false signals from salt water, coral, high iron rocks, or other ground mineralization, as some other types of detectors do. As with all JWF detectors, the detection range is not affected by the material between the search coil and the metal target. Whether detecting through air, water, silt, sand, mud, or rock, the detection range remains the same.

Options: 220vac charger, extra battery pack, external battery charger



Vibrating Handle

Magnetometers are the *Most Sensitive* ferrous metals detectors available.

Visit our web site for comprehensive data sheets on all products.

PROTON 4 Boat Towed Magnetometer

The Proton 4 is the ultimate detector for iron and steel targets. With a max range of 1,500+ feet, it is one of the best tools to find large metal targets like sunken ships when the search area is large. The mag is also a good choice to locate a variety of smaller targets such as pipelines, anchors, chains, cannons, dredge heads, etc. It is especially useful when objects are buried in the bottom and can't be found with sonar or video search systems. This high performance marine magnetometer is ruggedly built and easy to operate. The topside console has both audio and visual alarms for target detection. Connect a GPS and position coordinates can be captured with the mag readouts on a Microsoft Surface® tablet or laptop computer. Optional Tracker software shows the path of the boat as it moves over the search area and uses a graph to display the mag readouts, allowing the operator to quickly see where and when a target is detected.

"We have found so many things with it from 1 inch iron rods to shipwrecks. It really works great."
- Bob Norwood, Southern Salvors, AL



Deploying the Proton 4
(optional Tracker software)

Optional Microsoft
Surface® Tablet
mounted in control box

"We use the mag weekly. It's great for those large tasks like recovering ship anchors, chains, etc, and cannon by the dozen" - Chris Juredin, Tortola, BVI

Diver Mag 1 Diver Held Magnetometer

The Diver Mag 1 has the same high performance as the Proton 4, but it's built to be easily carried on land or moved through the water by a diver. This hand-held mag has user friendly controls that make it simple for a

"We call it the magic wand, it leads you directly to the wreck" - Bob Duarte, Philippines

diver to operate. A large LCD display and audio alarm heard through an underwater earphone alert the diver to the presence of an iron or steel target. The Diver

Mag is ideal for many of the operations performed by today's commercial diving companies including tracking pipelines, finding anchors and chains, and locating submerged objects. Law enforcement divers also find it an excellent tool for locating weapons and explosive devices. In shallow water operations the Diver Mag is so sensitive it can be operated from inside the boat to locate submerged vehicles and sunken vessels.

"...the anchor was quickly located buried under 4m of mud" - M. Cyr, Quebec, Canada



*Most sensitive
diver-held
detector for
iron/steel targets*



Mag in land operation



"Very pleased with the mag, it located the pipeline buried 12 feet down" - B. Fennessey, Global Divers, West Africa

JW Fishers boat towed metal detectors are *Powerful* commercial grade detectors.



Visit our web site for comprehensive data sheets on all products.

PULSE 12 Boat Towed Metal Detector

The Pulse 12 is Fishers most powerful detector for ferrous and nonferrous metal targets. With its 24 foot wide and 16 foot deep detection envelope this detector will locate a variety of targets including aluminum boats, brass propellers, outboard motors, steel anchors, bronze cannons, and gold bars. A key feature of this detector is the control unit can accept inputs from 3 search coils. Using 3 coils instead of 1 lets the search team cover 3 times the

"..total haul was \$700,000 in coins, our tool of choice was the Pulse 12" - Brian Dillon, England

area with the same amount of time, fuel, and manpower. The Pulse 12 comes with one towfish and coil, 150 feet of cable, and the topside readout unit with controls for 3 towfish. Meter

and audio outputs alert the operator to the presence of a metal target.

Options: two additional fish, RS232 output for computer, longer cables, Microsoft Surface® Tablet, Tracker software and DDW-1 depressor wing.



Top of the line all metals detector



Deploying the Pulse 12

"Pulse 12 is being used to locate unexploded ordnance, pipelines, and other targets; it's doing a great job for us." - Ken Hayes, Aqua-Survey, NJ



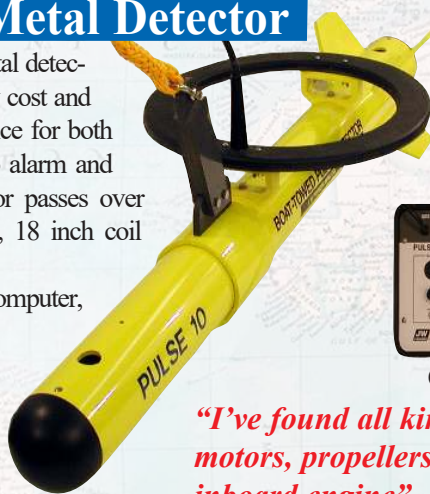
Topside box can control up to three fish/coils

PULSE 10 Boat Towed Metal Detector

The Pulse 10 is Fishers most economical towed metal detector. Detects all metals; ferrous and nonferrous. Low cost and wide detection area make this detector a good choice for both commercial operations and recreational use. Audio alarm and visual readout alert the operator when the detector passes over a metal target. The Pulse 10 comes with towfish, 18 inch coil with 150 feet of cable, and the topside control unit.

Options: 300 foot cable and RS232 output for computer, Microsoft Surface® Tablet, Tracker software.

"...great success with the Pulse 10, the last prop recovered was an 84" four bladed valued at over \$26,000" - Craig Simmons, TX



Most economical boat towed



Deploying the Pulse 10



Control Box

"I've found all kinds of stuff including anchors, outboard motors, propellers, and even an old Woodie boat with a inboard engine" - Mike Carpenter, IN

RMD-1 Remote Metal Detector

The RMD-1 is a high performance pulse induction metal detector which can be attached to almost any ROV, sled, or towed underwater system. Pulse induction technology allows the RMD-1 to detect both ferrous and nonferrous objects, at ranges up to 5 feet, on or under the ocean floor while ignoring mineralization in the saltwater and seabed. The ROV metal detector has been used to locate and track underwater pipelines, find missing tools and dredge parts, locate weapons and unexploded ordnance, and to search for lost treasure. A surface control box displays the readout with both a meter and audio alarm.

Options: RS232 output for computer.

Very versatile detector



Control Box



RMD-1 mounted on ROV

"attached the RMD-1 to Odyssey's deep water ROV...hundreds of millions of dollars of gold and silver coins located."

Underwater search accessories that add

Visit our web site for comprehensive data sheets on all products.

CMS - 1 & 2 Cable Management Systems



CMS-1
Cable Management System

The Cable Management Systems are cable reels with slip rings which allow complete operation of the system while deploying or retrieving cable. CMS-1 cable reel holds up to 500 feet of cable and is housed in a Pelican® 1620 case. The CMS-2 cable reel holds up to 1,000 feet of cable and is housed in a Pelican 1660 case. Both cases come with wheels and a retractable handle for ease of transportation and storage.

Microsoft Surface® Tablet



A new Microsoft Surface® Tablet mounted to the control box of Fisher's Side Scan Sonar, SCAN-650, Proton 4 and Pulse 10 or 12 for ease of viewing.

GoPro® Camera



Attach a GoPro® to your JW Fishers ROV to capture high definition (HD) video. Comes with 1,000 foot depth housing.

Rugged Carry Cases



Add a Pelican® hard carry case to most JW Fishers products for easy transport and added protection in the field.

Additional search coils for Pulse 6X & 8X



With a few different options, your JW Fishers pulse detector can be used on land, at depths of up to 200' (~60m), or deployed from a boat. Different size coils have different detection ranges. Large coils have very wide and deep detection envelopes for finding larger objects at deeper depths. Small coils have smaller and more concentrated detection envelopes to easily locate smaller targets.

versatility & enhance performance.



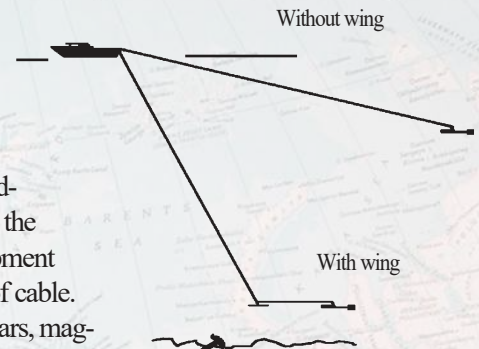
Visit our web site for comprehensive data sheets on all products.

DDW-1 Depressor Wing



"Even at depths over 200m, the DDW does a good job for us" - Phillip Gillibrand, Scotland

The DDW-1 deep dive wing is designed to tow any underwater instrument package deeper using less cable. A typical ratio of cable length to tow depth is 4 to 1 which means 400 feet of cable is needed to tow at a depth of 100 feet. By using the wing the ratio is reduced to 2 to 1 which means the equipment can be towed 100 feet deep with only 200 feet of cable. The DDW-1 is routinely used with side scan sonars, magnetometers, towed video equipment and metal detectors.



UA-2 Altimeter



"Altimeter works great on our equipment" - Anton Smirnov, EIC Labs

The underwater altimeter shows the distance between towed equipment and the ocean floor. With the altimeter attached, instrumentation can be towed at a known distance from the bottom for great accuracy and safety. A

large LCD display shows the distance in feet or meters. The UA-2 measures from 2 feet to 99 feet. An adjustable audio alarm alerts the operator when a selected distance from the seabed is reached, allowing for corrective action. The altimeter comes with transducer, 150 feet of cable, and topside control unit. **Options:** up to 1,000 feet of cable.

On-Screen-Display



Data is superimposed on video screen

Standard option on JW Fishers ROV line. The OSD displays the Time, Date, and Boat's GPS position directly on the screen and is recorded along with the video on a DVR/DVD. An optional remote sensor package is available. Water temperature, depth, and compass heading are displayed and recorded. Ideal for ROV systems.

DHL-2 and SL-2 Dive Lights

DHL-2
Diver Held
Light



Powerful LED lights!

Fishers underwater light systems are ideal for any of the numerous underwater inspection projects encountered by today's commercial divers. The newly redesigned DHL-2 Diver Held Light and SL-2 Single Light supply continuous lighting for extended underwater operations such as hull or bridge inspection in depths up to 1,000 feet using very powerful light beams provided by two 1500 lumen LEDs in the DHL-2 or a single 1500 lumen LED in the SL-2. SL-2 lights can be ganged together for those applications where multiple lights are required. Both light systems are surface powered by 120 volt AC and include ground fault protection circuitry.

SL-2 Single Light



Powerful LED lights!



Hello, I'm Chris Combs, Sales Manager at JW Fishers. If you have any questions on our products, need a Technical Data Sheet, or would like to request a formal quote with shipping cost, give me a call or send an e-mail to info@jwfishers.com





**Jack Fisher,
Founder**

Fishers products hard at work and *Paying* off !

Visit our web site for more photos from our customers and to read our JWF news releases



**Drop video helps aid in fish farming
operations in Canada**



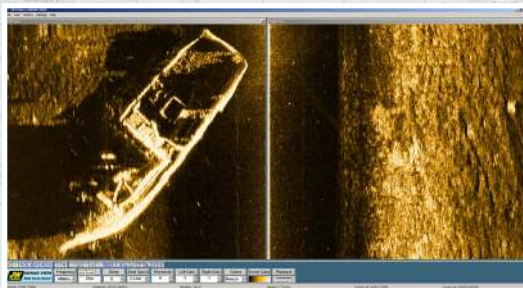
**Group searching wreck
site with Fishers Pulse 8X
metal detector**



**CT-1 used to help find &
track damaged cables**



**Long Beach City College
using JW Fishers Side Scan
Sonar for a student program**



SSS-600K side scan locates a sunken vessel



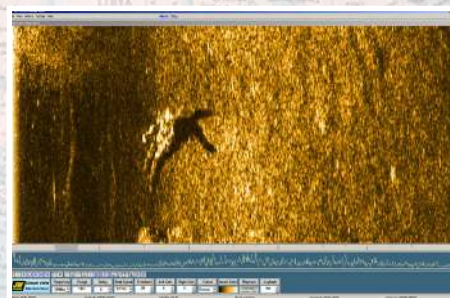
**ROV used in recovery
missions like the tragic
Air Asia crash**



**Students using the DiverMag-1 at the
University of West Florida**



**The Pulse 8X is the right tool
for finding missing firearms
easily and accurately**



**Image of simulated drowning
victim using JW Fishers Side
Scan Sonar**

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