



**SPV**  
PIPELINE  
INSPECTION  
COMPANY, LTD.

**PIG TRACKING**

## SPY® PT LINE

### Applications

- Mainline transmission
- Gathering lines
- Subsea lines
- Municipal gas
- Water and wastewater
- Refining and the process industries

For the most reliable signal available, the SPY® PT (Pig Transmitter) uses low frequency signals to effectively and consistently penetrate a steel pipe wall. We offer numerous transmitter sizes to cover a full spectrum of pipe diameters. Each transmitter is self-contained and travels inside various pigs, attached to versatile brackets, or towed. A handheld receiver and wand are used to locate the transmitter.

### SPY® TRANSMITTERS

SPY® Transmitters have been proven effective in the field for over 12 years. Each SPY® transmitter is designed and built for long reliable service.

- Rugged casing is liquid-tight, temperature and pressure resistant
- Battery operated
- Coded signal minimizes false readings
- Strongest signal available



### PT Recommended Specifications

TRANSMITTER	PT101
Minimum Pipe Line Size	3"-4" [76.2 mm - 101.6 mm]
Transmitter Length	4 3/16" [106.4 mm]
Transmitter Diameter	1.00" [25.4 mm]
Maximum Hours of Signal	60 hours
Batteries Required	1 Lithium 3V
Maximum Pickup Range (free air)	15'-20' [4.72 M-6.096 M]
Ground Cover Depth Pickup Range	4'-6' [1.23 M-1.83 M]
Maximum Operation Pressure	1000 psi [69 bar]
Temperature Range	-40F-185F [-40C - 185F]
*Minimum Pipe Bend (Med-High Density Polly Pig)	3D

### Mounting Options

Mounting Ring  
(PT-750)



Top-Hat  
Flange  
(PT-275)



Towing Eye  
(PT-275 &  
PT-750)



*reliably and consistently track the passage of a pig or pinpoint its location*

## SPY® PTR

To locate a pig equipped with a SPY® Transmitter, the SPY® PTR (Pig Tracker Receiver and Wand) registers the changing magnetic field produced by the SPY® Transmitter. When the Transmitter is located, the PTR produces both an audio and visual output. With two standard 9-volt alkaline batteries, the PTR can be powered continuously for approximately 50 hours. Special wands are available for sub-sea applications, with depths of up to 10,000 feet [3000 meters].



## SPY® PTS

The SPY® PTS (Pig Tracker Sensors) attaches directly to exposed pipe and provides a non-intrusive pig passage indicator. The PTS comes with a 120 V power connection or a stand-alone battery module, the PTSB (Pig Tracker Sensor Battery). Four (4) AA alkaline batteries power the PTSB for a period of four to six months. The battery unit can also be used as "backup" power in the event of 120 V power failures. The PTSI (Pig Tracker Signal Indicator) unit has a visual pig passage indicator, which can be reset manually. The PTS, PTSB, and PTSI are all mounted in NEMA 7 enclosures.



PT107	PT275	PT750
4"-8" [101.6 mm-304.8 mm]	8"-12" [203.2 mm - 304.8 mm]	12" + [304.8 mm +]
6 5/16" [160.33 mm]	7 1/2" [190.5 mm]	13 7/8" [352.425 mm]
1 1/4" [31.75 mm]	3" [76.2 mm]	3 9/16" [89.408 mm]
60 hours	200 hours	500 hours
1 Lithium 3V	4 Type "AA"	8 Type "C" Alkaline
20'-25' [6.10 M-7.62 M]	60'-75' [18.29 M-22.86 M]	100' [30.48 M]
6'-8' [1.83 M-2.44 M]	8'-15' [2.44 M-4.57 M]	25'-30' [7.62 M-9.14 M]
1000 psi [69 bar]	2000 psi [138 bar]	3000 psi [207 bar]
-40F-185F [-40C-185F]	-4F-131F [-20C-55C]	-4F-131F [-20C-55C]
3D	3D	3D



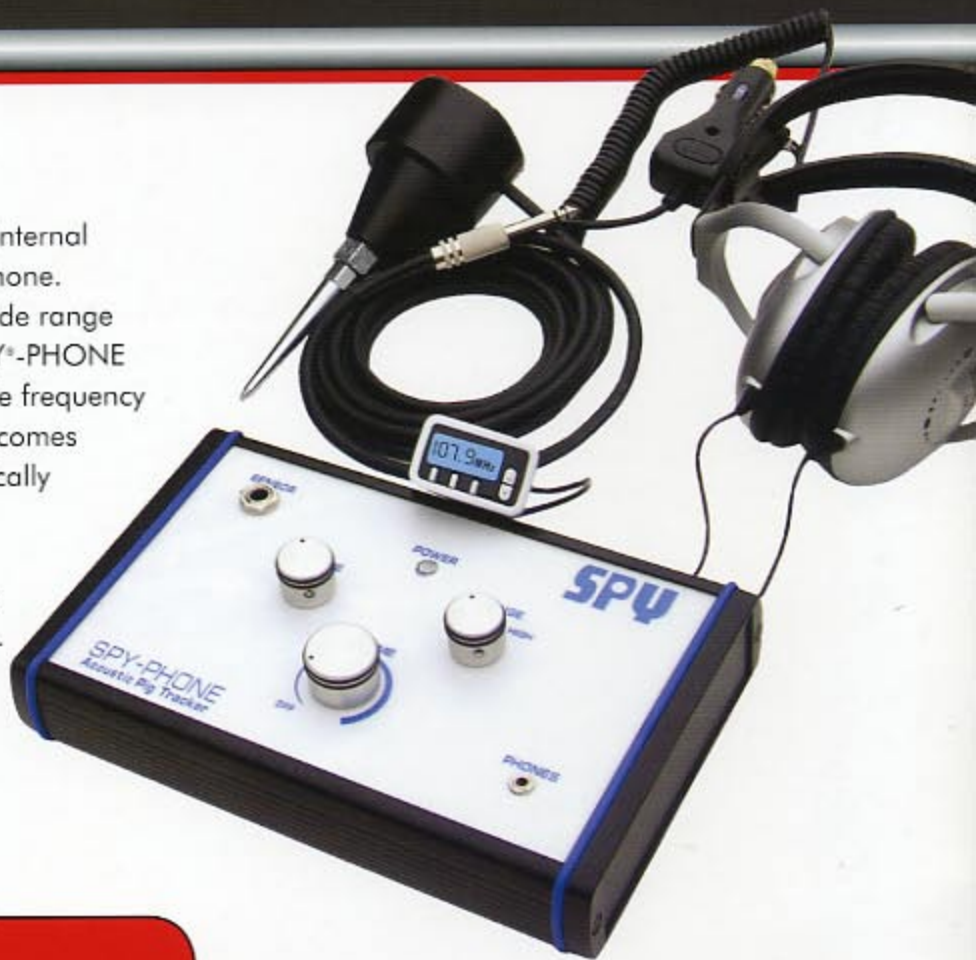
\*When calculating pipe-bends, please reference the actual pig manufacturer. Additionally, when using steel mandrel pigs, the minimum pipe bend is determined by what the actual steel mandrel pig can negotiate, which might be 1.5D.

# SPV

# ACOUSTIC PIG TRACKER

## SPY<sup>®</sup>-PHONE

The SPY<sup>®</sup>-PHONE allows you to listen to any internal pipeline travelers in motion. It is not a geophone. The SPY<sup>®</sup>-PHONE Pick-Up Sensor covers a wide range of frequencies from 1Hz. to 20 KHz. The SPY<sup>®</sup>-PHONE also allows the user to set and restrict multiple frequency ranges. The versatile Pick Up Sensor, which comes with a 3" contact spike, can also be magnetically attached directly to exposed valves or pipes. You may also securely attach the sensor to a steel probe. A 12-volt auto adapter allows you to listen from the comfort of your vehicle. Plug in the full spectrum FM Transmitter and you can listen for the pipeline traveler through your vehicle's sound system!



### SPY-PHONE Accessories:



*Pick-Up Sensor • Deluxe Head Phones  
Shipping Case • Batteries (2-9V)*

### AUTO KIT

*Full Spectrum FM Transmitter  
20' Head Phone Extension Cord  
Auto Power Cord (12V)*

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