

Tags

Installation and Maintenance Manual

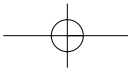


Warnings	2
Included In This Package	3
About Antennas	4
Placement	5
Mounting	6
Installing	7
Technical Specification	7

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PinPoint Local Positioning Systems



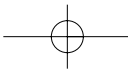
! Warnings

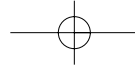
The 3D-iD Tags are water and shock resistant. However, immersion, high-pressure washing, or extreme force can damage the Tags.

When installing the Tags, keep in mind that metallic objects and other radio absorbers and deflectors will hinder the performance of the Tags.

The Tags may be washed with alcohol, diluted bleach, and diluted ammonia. Harsher solutions may cause damage to the Tag's exterior or seal.

Changes and modifications not expressly approved by PinPoint Corporation could void the user's authority to operate the equipment.





Installing Tags



Included in this package

This package may include:

10 or 25 Tags

10 or 25 Asset Mount Kits consisting of:

1 Asset mount (flat or curved surface)

Double-sided tape

2 Security screws (??)

Foam tape

2 Hose clamps

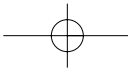
1 Security screwdriver

10 or 25 Personnel Mount Kits consisting of:

1 Belt clip

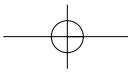
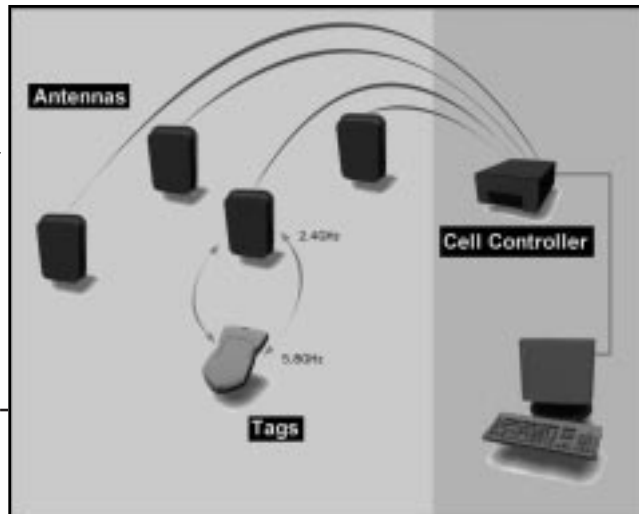
Tape, Double Sided

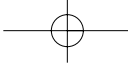
1 Lanyard



About Tags

The 3D-iD Tags are the items tracked by the Cell Controller and the Antennas - the components of the PinPoint System. They are affixed to assets or personnel enabling the 3D-iD system to secure, locate, and track those resources. The Tags receive 2.442GHz radio signals which are generated by the Cell Controller. They add their unique serial number to the signal and transmit the signal back to the Antenna at 5.83GHz. The Cell Controller measures the delay between when the signal was sent and when it was received, generating Tag-Antenna Distance (TAD) data.





Installing Tags



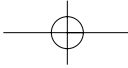
Mounting Tags - Asset Mount

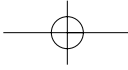
The asset mount can be used to attach the Tag to any flat surface or curved surface (up to 2" diameter), such as a narrow bar or a pole.

Mounting to a flat surface:

1. Affix the bottom (flat side) of the mount to the desired surface using the double-sided tape.

For information about more securely attaching the mount to an asset (e.g. screwing it to the asset), please contact your certified system integrator.
2. Screw the tag to the mount using the two (2) security screws and the security screw driver. Ensure that:
 - The logo is facing outwards
 - The screws are not overtightened (overtightening can damage the Tag package)
3. The Tag and Mount should appear as shown.

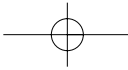


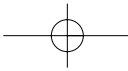


Mounting to a curved surface:

1. Apply the enclosed strip of foam tape down the middle of the vertical axis on the bottom (flat side) of the Tag Mount
2. Run the hose clamps through the upper and lower channels of the mount. The ends of the hose clamps should meet above the flat side of the mount.

Note: Other mechanisms may be used to secure the mount to a curved surface, including tie-wraps or security banding. Ask your certified system integrator for details.



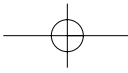


Installing Tags



Mounting to a curved surface (cont.):

- 3 Attach the mount to the curved surface and tighten the hose clamps screws until the hose clamps run nearly flat along the channel in the mount.
- 4 Screw the tag to the mount using the two (2) security screws and the security screw driver. Ensure that:
 - The logo is facing outwards
 - The screws are not overtightened (overtightening can damage the Tag package)
- 5 The Tag and Mount should appear as shown.

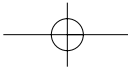


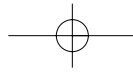
Mounting Tags - Personnel Mount

Personnel Mounts are designed to enable a tag to be worn around the neck or on a belt clip.

1. Using the small strip of double-sided tape, affix the tape to the flat side of the belt clip.
2. Attach the belt clip to the back (no logo) side of the tag near the top as shown.
3. Using the belt clip affix the tag to a belt, or if desired, run a lanyard through the belt clip to wear the Tag around one's neck.

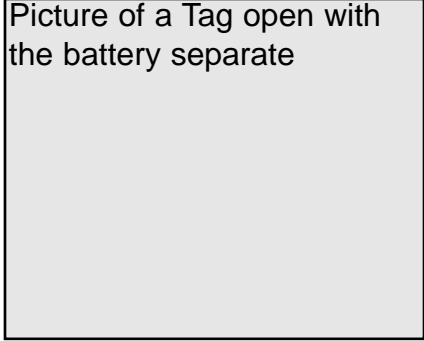
Note: The Tag's logo must always be facing out!





Installing Tags

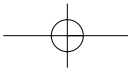
Picture of a Tag open with
the battery separate



Maintaining the Tag

The ViewPoint software package contains a battery monitoring application which will generate a report of all Tags that have a low battery (See the ViewPoint User's Manual for more information). To change the Tag's battery:

1. If the Tag is mounted to the Asset Mount, remove the Tag from the Mount.
2. Detach the battery case by carefully unscrewing the seven (7) screws holding it to the Tag. The screws are on the rear of the tag (the side with no logo).
3. Carefully separate the Battery Case from the Tag.
4. Properly dispose of the old battery case.

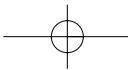


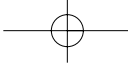
Maintaining the Tag (cont.)

5. Slide the new Battery Case firmly into place against the Tag body.

NOTE: Be sure that the battery contacts are aligned with the Tag leads!

6. Screw the battery case on to the tag base.
7. If the tag is from an asset mount, reattach the tag to the mount following the instructions in the Mounting section of this manual.





Installing Tags

Technical Specifications

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Frequency:

Tx: 5.770 GHz

Rx: 2.442 GHz

Radiated Power: <0.5mW EIRP

Power Source: 6V Lithium Battery

Battery Life: Greater than 1 year at 3 second chirp intervals

Radiation Pattern: Semi-spherical (from front face of tag)

Read Range: 125 feet

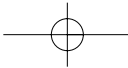
Performance: Detect a 3 second tag in a population of:
200 tags within 10s (99% confidence)
500 tags within 25s (99% confidence)

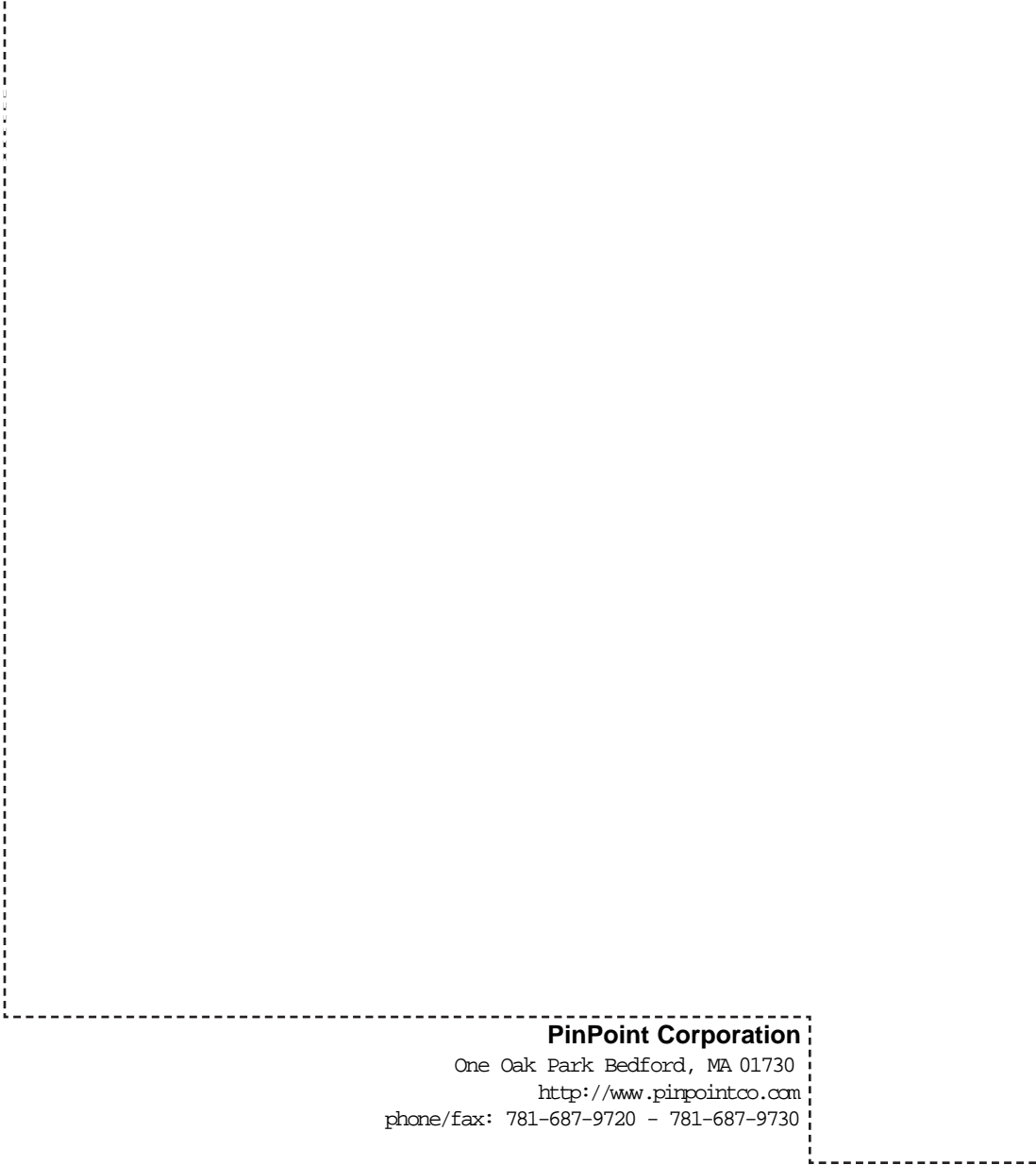
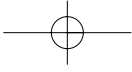
Dimensions: 3.5 x 2.6 x 0.8

Environment: -20 C 50 C (operating range)

Water-resistant to x feet

See Tag Data Sheet for Details





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