



***MiniTracker 3™ Wand Multi Mode Reader
with
Bluetooth® wireless technology
User's Manual***

FCC ID: IOL-125-AV1043 - B
Contains FCC ID: QOQBLE113

INSTRUCTIONS TO THE USER

This equipment has been tested and found to comply with the limits for a class B digital device pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

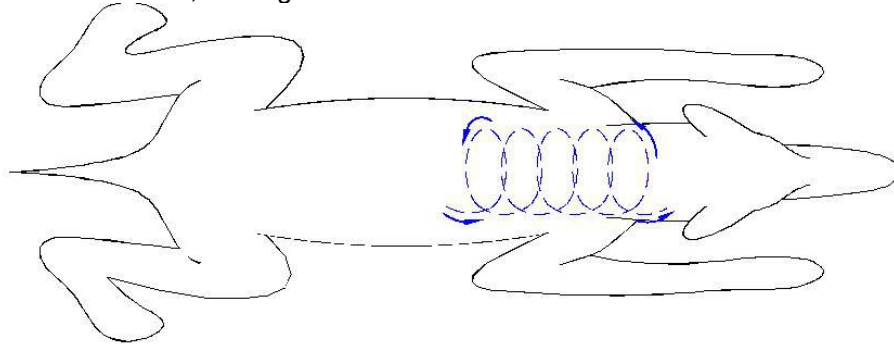
- * Reorient or relocate the receiving antenna.
- * Increase the separation between the equipment and receiver.
- * Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- * Consult the dealer or an experienced radio/TV technician for help.

Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the user's authority to operate the equipment.

Congratulations on the purchase of your new AVID MiniTracker III™ Wand Reader. This reader is capable of reading **AVID**, and many other brands of electronic identification tags using the **FECVA, TROVAN or ISO (FDX-B)** protocols.

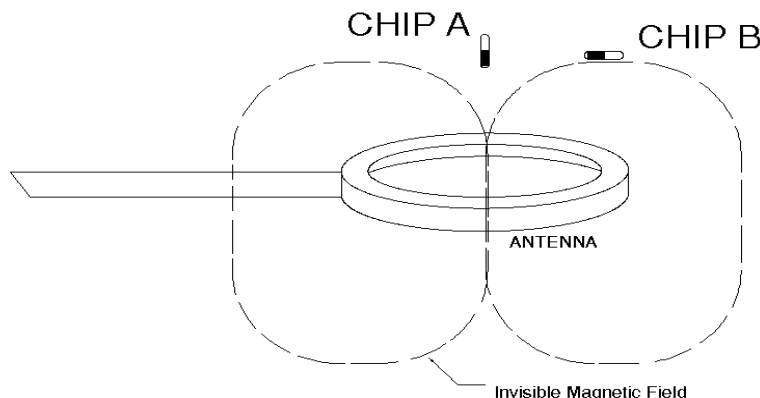
INSTRUCTIONS: How to use the AVID Wand Reader:

- 1. Power Switch:** Turn the reader ON by sliding the lower right hand switch on the face of the reader, forward. When the reader is powered on, it will emit a double beep sound and the LCD will display **AVID/FEC/TR/ISO**. To turn the reader OFF, slide the switch back.
- 2. Read Button:** Press the upper right button on the reader or the green button on the wand handle to put the reader into the **LOOKING** mode. The LCD will display **LOOKING**. When a microchip is found, the reader will emit two beep tones and display the number on the LCD. If the read button is released before finding a microchip, the message **NO ID FOUND** will display on the LCD.
- 3. Reading:** The Reader antenna is located in the round loop on the end of the wand handle. This provides communications between the microchip and the reader. While pressing down the Read button, scan in a circular pattern while moving toward the animal's head, starting from the middle of the back.



The Wand Reader antenna, handle and switch are waterproof and can be completely immersed underwater as long as the Reader itself is kept out of the water.

Chip orientation plays a major role in optimum performance of the reader and reading distances. In the figure below, CHIP A, in a parallel orientation to the antenna, will achieve its maximum reading distance towards the center of the coil. CHIP B, in the perpendicular orientation to the antenna, will achieve its maximum read distance towards the outside edges of the antenna. It is therefore recommended to move the antenna in a circular motion so that at some point you are energizing the chip with a greater magnetic field making it easier to find the microchip.



4. **Battery:** The reader is powered by one 9 volt battery. An alkaline battery is recommended for a longer battery life. The battery is located in the battery compartment on the lower backside of the reader. To replace the battery, slide the cover straight off, secure it, by sliding the cover back to its original position making sure the wires are securely inside the compartment.

5. **Bluetooth wireless technology:**

This reader can wirelessly send the text of the microchip it reads directly to a Bluetooth enabled device version 4.0 and above.

In Bluetooth nomenclature, that smart phone, tablet, or computer is a central device, and the Avid reader is a peripheral.

No special software or driver is required on the central device. Central devices that have had Bluetooth added by using an additional card or USB dongle may need a driver for that board or dongle, but there is nothing additional required to support the Avid reader.

Using the Bluetooth feature

Once the reader is connected and paired with your central device, put the cursor on the central device screen where you want the microchip number typed in. Read the microchip with the reader.

The microchip number will appear on the central device as though the number had been typed in from a U.S. English keyboard.

If the central device's soft keyboard isn't present, turn the reader off, and the cursor should reappear, allowing you to use the soft keyboard.

Powerup message

When the reader is turned on, it will display "AVID <UNIQUE> <MODE>". <UNIQUE> represents six alphanumeric characters identifying each reader. <MODE> represents one of the modes NONE, ENTR, TAB, OFF. In a central device's list of Bluetooth peripherals, the reader should show up as "AVID <UNIQUE>".

Changing modes

The reader comes with a special credit-card sized electronic tag labeled "Mode Change Card " When this tag is read by the reader, it will change the mode and display the new mode on the LCD.

Reading this tag will cycle the MT3-B display through:

AVID <UNIQUE> NONE	-- Sends no key after tag number
AVID <UNIQUE> ENTR	-- Sends Enter key after tag number
AVID <UNIQUE> TAB	-- Sends Tab key after tag number
AVID <UNIQUE> OFF	-- Forgets any pairing. Doesn't send tag data

<UNIQUE> is a six character unique identifier for the reader. Keep this tag well away from the reader when reading other tags.

Changing AVID Display Format

The reader also comes with another special credit-card sized electronic tag marked “Format Change Card” that when read by the reader, will change the mode and displayed format of Avid protocol tags.

Reading the Format Change Card will cycle the MT3-B display through:

```
AVID*123*456*789
123*456*789
A123456789
123456789
```

Future reads of AVID protocol tags will be displayed in the selected format. Display of other tag protocols will not be affected.

Keep this tag well away from the reader when reading other tags.

Connecting

If the reader is not in “Off” mode it should connect within a few seconds of being in range and turned on. If the reader is not already paired with the central device you may have to make the central device do a scan to look for new peripherals before you see the Avid reader in the peripherals list.

Pairing Overview

The reader must be paired with the central device you'll be using before it can transfer microchip data. Pairing involves the central device and the reader exchanging some information, so they can recognize each other in the future. Unless you unpair by going into or through “Off” mode, or have the central device unpair from the reader, pairing only needs to be done once.

Pairing is done from the central device, and the exact details will depend on the device, and the operating system it uses.

Bluetooth works by peripherals “advertising” their name and availability. The central device scans to find what peripherals are present. Turning Bluetooth off and back on again on the central device will usually start this scan, or the settings page may have a button to cause it to scan.

Advertising mode

Some Bluetooth peripherals use a button to put the peripheral into advertising mode, and the instructions for pairing that came with your Bluetooth-capable central device may mention this. The Avid reader doesn't use a button to put it in advertising mode. Unless it is in “Off” mode, the reader starts advertising as soon as it is turned on.

It will advertise as “Avid UNIQUE”, where UNIQUE is the same string of characters on the reader's LCD powerup message.

Once your reader is paired with the device, it will show up on the central device's list of Bluetooth peripherals whether the reader is connected or not.

Pairing

Go to the Bluetooth settings on the central device where there is a list of detected Bluetooth peripherals. The reader should show up in the list as Avid UNIQUE, where UNIQUE is the six characters displayed on the LCD when the reader was turned on.

If the reader ID is not on the list:

- Turn off Bluetooth.
- Turn on the reader
- Turn the Bluetooth back on, and wait for the central device to “discover” the reader.
- Select the reader, and the central device should ask if it is okay to pair with the reader. Allow the reader to pair.

Bluetooth devices on the list that are paired and connected are usually shown in slightly different way than those that aren't. Once a reader is paired with a device, it will show up in the central device's list of Bluetooth peripherals whether the reader is on and present or not. If the reader is off and you turn it on, it will connect with the central device in a few seconds.

Keyboard Translation Software warning

If the central device uses software that remaps keys from the keyboard, the characters typed by the reader may not be correct.

WARNING: FOLLOW BATTERY INSTRUCTIONS FOR DISPOSAL.

Operating the Reader Near Metal

Metal objects (especially ferrous metals) absorb electromagnetic fields. Operating the reader antenna or placing the chip too close to metal object can severely limit the range of operation of the system. If you are experiencing reduced operating range of your system, check for metal tabletops, doors, etc. in close proximity (a few inches) to any part of the chip/reader environment.

Warranty/Service

The AVID Mini Tracker III™ Wand Reader is warranted to be free of manufacturing defects for a period of one year from the date of purchase. Defective readers will be repaired or replaced at the discretion of AVID ID Systems. Please contact an AVID representative for a Return Merchandise Authorization number (RMA) or if you have any questions.

Specifications:

- **OPERATING FREQUENCY:**
125KHz
- **TEMPERATURE RANGE:**
Operating: 32° to 122° F (0° to 50° C)
Storage: 4° to 158° F (-20° to 70° C)
- **POWER:**
(1) 9-Volt alkaline battery
- **DISPLAY:**
16 Character Liquid Crystal Display (LCD)
- **INDICATORS:**
Audible beeps/Visual LCD
- **TAG COMPATIBILITY:**
AVID, FECAVA, TROVAN and ISO (FDX-B) coded ID tags,
produced by multiple manufacturers
- **READER DIMENSIONS:**
2.4"W (6cm) x 6.9"L (17.5cm) x .86"H (2cm)
- **WAND DIMENSIONS:**
21"L (53.3cm) x 4.0"I.D. (10.1cm) x (5.0"O.D. (12.7cm))
- **COMBINED WEIGHT:**
1 lb. (453.5grams)
- **TYPICAL READING DISTANCES: ***
AVID/FECAVA Injectable Transponder: 6.00" (15.3cm)
TROVAN Injectable Transponder: 4.50" (11.4cm)
ISO (FDX-B) Injectable Transponder: 5.0" (12.7cm)
- **WATERPROOF:**
Antenna, Switch/Handle & Tubing can be immersed in water
The Reader itself is NOT waterproof and should not be immersed.
- **FCC APPROVAL:**
FCC ID: IOL-125-AV1043-B
Contains FCC ID: QOQBLE113

*Reading distances were measured using 12mm transponders.
Reading distances will vary depending on the orientation and the size of the ID Tag

Customer Service

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