

## Wireless Data Retrieval

Volume data that is recorded by *The Scanner* can be read directly from the display. *The Scanner* also has a built-in RS-232 serial port that allows you to plug in and retrieve time-stamped & directional data.

However, one of the many unique features of *The Scanner* is the ability to also interface with it remotely using a wireless connection and a PDA.

Every Scanner has a built in Bluetooth wireless connection and comes with a copy of our free ScanPDA software. Simply position yourself near *The Scanner* with your PDA and run the ScanPDA software. You can then use the PDA to end counts, retrieve data and start a new count, along with other options.

Once your data has been retrieved, take the PDA back to your office and the free ScanRead utility software can be used to retrieve the data from the PDA to your computer. The data you retrieve can then be output into several formats, including a standard Excel file for analysis and reporting.

When outputting to an Excel format, you are given several time interval options for how you want to see the data. The options are: Time Stamp, 1 Minute, 5 Minutes, 10 Minutes, 15 Minutes, 30 Minutes and 60 Minutes. The Time Stamp option produces a file listing the individual time stamp (to the second) of every recording in the study. The other options will group the data into the interval time selected.

In the Time Stamp format, each recording in the study is listed with it's time stamp and the direction in which it was recorded. For example, in the Time Stamp study shown to the right, the first recording occurred at 2:03:09 PM, with the person traveling in the second direction.

In the Interval format, the recordings in the study are grouped together into the interval time period selected. For example, in the 15 Minute study shown to the right, the first time listed is 2:00:00 PM and the second time listed is 2:15:00 PM. This means that the data in the first listing covers the time from 2:00:00 up to 2:14:59. In our example, we see that there were 3 recordings in the first direction for this time period, and 5 recordings in the second direction.



Event #	Time	Direction
1	5/4/2006 2:03:09 PM	2
2	5/4/2006 2:03:14 PM	2
3	5/4/2006 2:04:45 PM	1
4	5/4/2006 2:05:12 PM	2
5	5/4/2006 2:06:22 PM	1
6	5/4/2006 2:08:52 PM	1
7	5/4/2006 2:12:09 PM	2
8	5/4/2006 2:14:31 PM	2
9	5/4/2006 2:16:47 PM	1
10	5/4/2006 2:16:52 PM	2
11	5/4/2006 2:18:03 PM	1
12	5/4/2006 2:18:41 PM	2
13	5/4/2006 2:22:01 PM	2
14	5/4/2006 2:23:52 PM	2
15	5/4/2006 2:27:27 PM	1
16	5/4/2006 2:28:04 PM	1
17	5/4/2006 2:28:14 PM	2
18	5/4/2006 2:29:19 PM	1

Time	Direction 1	Direction 2
05/04/2006 02:00:00 PM	3	5
05/04/2006 02:15:00 PM	5	5
05/04/2006 02:30:00 PM	4	6
05/04/2006 02:45:00 PM	7	4
05/04/2006 03:00:00 PM	11	7
05/04/2006 03:15:00 PM	13	9
05/04/2006 03:30:00 PM	9	6
05/04/2006 03:45:00 PM	8	8
05/04/2006 04:00:00 PM	7	6
05/04/2006 04:15:00 PM	8	9
05/04/2006 04:30:00 PM	7	9
05/04/2006 04:45:00 PM	6	5
05/04/2006 05:00:00 PM	8	9
05/04/2006 05:15:00 PM	6	7
05/04/2006 05:30:00 PM	9	10
05/04/2006 05:45:00 PM	14	16
05/04/2006 06:00:00 PM	19	21
05/04/2006 06:15:00 PM	28	25

# The Scanner

Passive Infrared Data Collector



**Accurately record pedestrians, bicyclists and more!**



- ◆ No external reflector required
- ◆ Bluetooth Wireless download & interface
- ◆ Stores GPS coordinates with data
- ◆ Powered by standard D cell batteries

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# The Scanner

## Passive Infrared Data Collector

*The Scanner* is an infrared data recorder that has been specifically designed to count pedestrians and/or bicyclists in a variety of places, such as trails, outdoor walkways, sidewalks and commercial areas. This unit will register at distances up to 35 feet and does not require a reflector or other external unit. Total volume can be recorded, as can individual time stamps of every recording.

Created by JAMAR Technologies, a leader in data collection equipment for over 30 years, *The Scanner* is built with industrial strength components to the highest level of quality. Armed with GPS capability and Bluetooth wireless technology, this device represents a new generation of passive infrared data recorders.

### How It Works

The average human emits infrared radiation due to body temperature. An infrared detector can recognize the specific signature of this and determine when a person is, or is not, present.

Most passive infrared recorders that count pedestrians use a simple detection method to determine when to count. With these units, once the detection field has been triggered, new signatures cannot be recognized until the field has been cleared.

*The Scanner* is different.

*The Scanner* uses a complex series of algorithms that allows it to accurately record data in a wide variety of circumstances, from individual people to larger groups. In addition, there is no need for sensitivity adjustments on *The Scanner*. Its built-in algorithms allow it to be self adjusting, so its accuracy is always at the highest level.

- Justify investments in future planning
- Assess trail usage over time
- Predict erosion and degradation
- Be aware of visitor's circulation
- Adapt the layout to meet real needs
- Quantify the attraction of a site
- Deploy staff appropriately
- Evaluate the impact of publicity
- Plan trail maintenance priorities
- Keep an eye on seasonal variations
- Optimize your day-to-day management

### Specifications

**Size:** 6.5" x 4.7" x 3.2"

**Weight:** 3.5 lbs.

**Case:** High-impact polymer

**Power:** Four D cell batteries

**Display:** 16-digit LCD

**Detection range:** 35 feet

**Infrared wavelength:** 8 to 14 um.

**Data:** Overall count and individual time stamps.

### Easy Setup & Installation

*The Scanner* is easy to program. The front cover of the unit is attached with two screws that can be removed for access to the two setup buttons: 'DO' and 'TAB'. These buttons help you navigate through the simple menu and start-up procedures. Alternatively, the unit can be programmed remotely from a PDA using Bluetooth wireless connection.

*The Scanner* is easy to install. No external reflector is needed. Simply mount *The Scanner* to any convenient location and aim it toward the area to be counted.

Included with *The Scanner* is a non-invasive installation kit comprised of installation brackets, screws and utility tools. This installation kit gives you everything you need to install *The Scanner* in the field without causing damage to trees.



# The Scanner

### Navigation Keys

Two buttons are all that are needed to navigate through *The Scanner* and set it up. Alternatively, the unit can be programmed remotely from a PDA using Bluetooth wireless connection.

### High-impact Case

The case of the Scanner is made of a high impact polymer that will withstand even the harshest of conditions. Its olive green finish makes it easy to conceal.

### Infrared Detection

The passive infrared detector of *The Scanner* does not require a reflector or other external unit to properly record data.

### Current Count

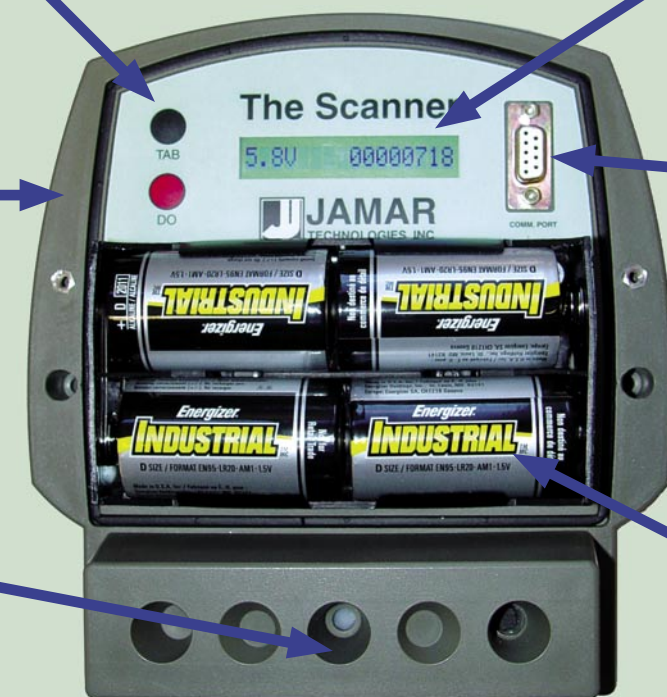
*The Scanner* maintains a running count of the overall volume recorded during the study, as well as the individual time stamps of every recording.

### Data Retrieval

Recorded data can be easily retrieved by either plugging in directly to the unit's serial port, or through the unit's wireless Bluetooth connection.

### Battery Compartment

The battery compartment, housing four D cell batteries, is easily accessible through the front cover.



## Passive Infrared Data Collector