



# Trolley Scan (Pty) Ltd

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## TROLLEYPONDER/ECOTAG/RADAR RFID Newsletter #102

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Your latest copy of our regular newsletter keeping you up to date with developments.

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#### 1. Using the latest technology versus the established working technology

For those of you not aware about the features of RFID radar - it is an amazing RFID system that can give the identity and position of transponders in its field of view, with accuracies of millimeters at ranges up to 40 meters. To do this it does not use any classic radar type approach of pulsed systems, or features such as power measurement, but rather uses very low interference techniques that allow precise measurements while allowing many systems to operate in close proximity. This is achieved by a very special design, using special high quality parts and four digital signal processors running about 75000 lines of code.

The performance of the Radar is exceptional in that during its soak testing, we monitor thousands of readings and find very minor data scatter even at 40 meters range.

As the designer and manufacturer of the systems, we have come to appreciate working with mature component suppliers that can keep on making the special parts we use over the ten year period we have been making the system. Although manufacturers might bring new versions of products to market, as a system manufacturer it is essential that we are also able to get the older versions that have already been qualified for use in our systems.

The RFIDradar uses some very special parts that have specially been designed and manufactured for us. We hold stocks of these parts but when it comes to re-ordering, some of the manufacturers have to do a special manufacturing run for our parts as they are not off the shelf parts. This in some cases needs a 90 day turn around between the order and delivery as the parts are carefully tuned to deliver the required performance. This is where one appreciates dealing with companies that have been in business for decades and have the skills and resources to make special parts for customers.

Like our suppliers, we deliver stand alone systems that will work with past, current and future generations of computers and software, providing reliable measuring data for computer systems. We support our clients from 52 countries with support covering our earliest generations of equipment to our current. Any client can contact us with a problem and we will be able to get their system to full operation.

Although our design has been stable for many years, the recent banning of transport by air of equipment containing lithium batteries caused a redesign of the battery powered transponders to allow the batteries to be removed before shipment. This allowed us to also improve the performance of the transponders. The systems will work equally well with the older and the newer transponders but should get slightly more range with the newer generation.

## **2. Product range**

Trolley Scan are a manufacturer of UHF RFID systems. Trolley Scan manufacture fixed readers, portable readers and RFID-radar systems (Real Time Locating systems that give accurate position information) as well as a variety of transponders for different applications. Transponders come in the form of passive transponders with operating ranges up to 20 metres and battery assisted transponders with an operating range up to 40 metres. Trolley Scan also combine some of these components into packages for end users which are supplied with the appropriate software. Typical applications are asset management, notebook tracking, equipment barriers, store control, sheep and cattle tracking, event logging and sports timing systems.

Trolley Scan have been delivering their RFID solutions for the past 16 years and offer full support for all their equipment.

## **3. Getting your own complete RFID/radar system**

You can order RFID systems or RFID-radar systems from [Trolleyscan.com](http://Trolleyscan.com)

Trolley Scan provide small RFID reader systems which give new users the ability to evaluate UHF RFID and their applications without needing specialised skills.

Trolley Scan provide a variety of easy starter systems for first time users who have an application that needs a solution. Typical packages are :

- ? Standard UHF long range readers with antennas and 100 transponders
- ? RFID-radar system comprising long range reader, antennas and a variety of different transponders.
- ? RFID-asset tracking systems comprising portable reader, antenna and a variety of transponders with software.
- ? RFID-notebook/laptop tracking system comprising reader, antennas, transponders and software

In addition components such as readers and transponders are available

These systems are already operating in 52 countries.

To find out details of the systems and to order see <http://trolleyscan.com/>