

# Scirocco AB (publ)

## InfraRed Identification (IRID)



## Stockholm-Kista, Sweden

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[www.scirocco.se](http://www.scirocco.se)

**scirocco**

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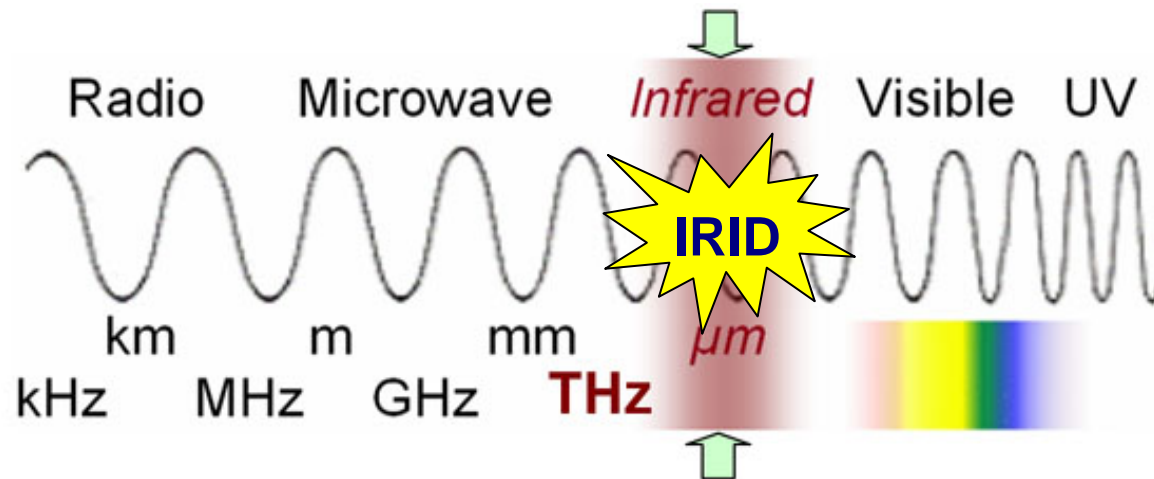
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**IRID**

# Introduction

Infrared instead of radio

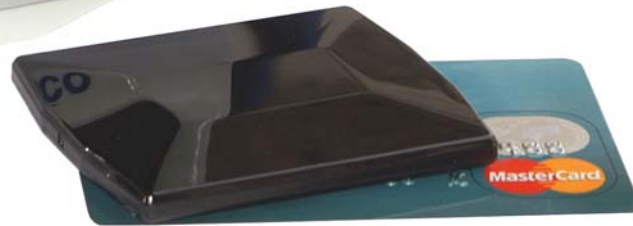
Lens instead of antenna



# Main characteristics



- 3 m reading range
- 2 m writing range
- Directional
- No blind areas
- Metal/water/EMI safe
- Compact reader
- Tag without battery



# Unique merits

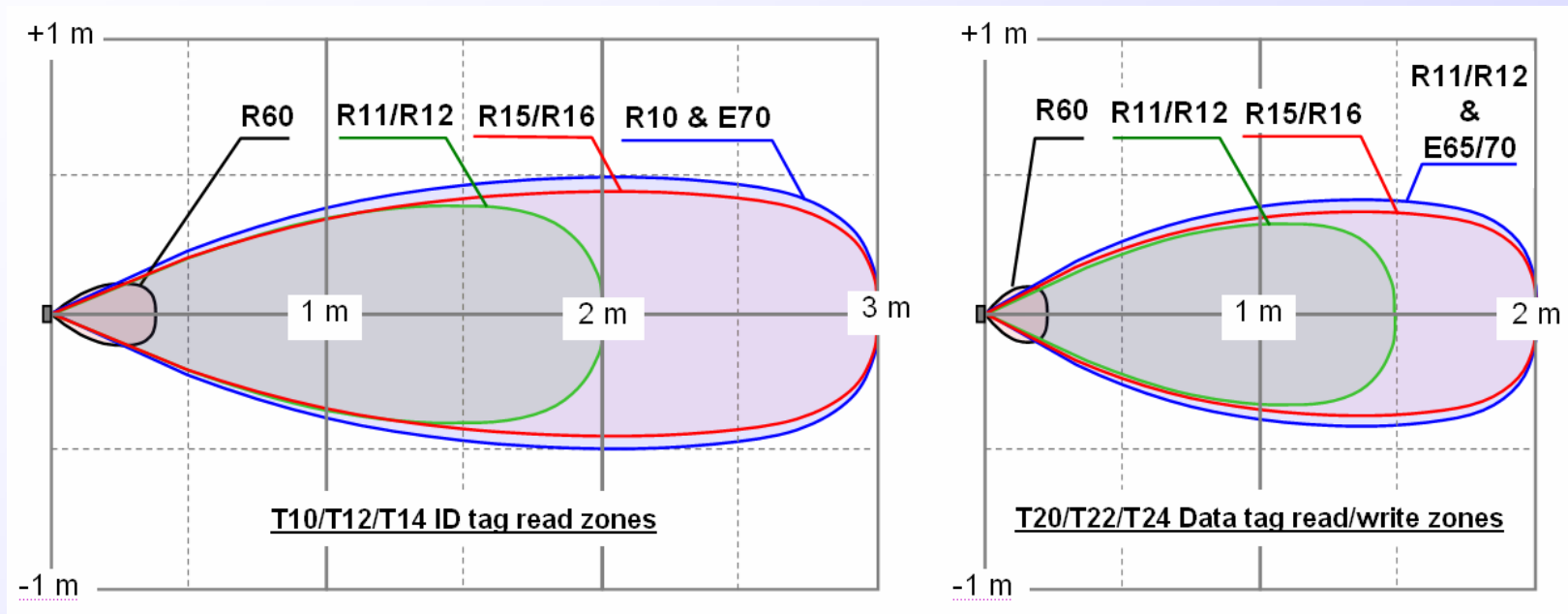


- Easiest to install and use
- Sharp-edged reading zone
- 100 % read- and write rate
- 0 % “ghost readings”
- Ultra-compact handheld reader

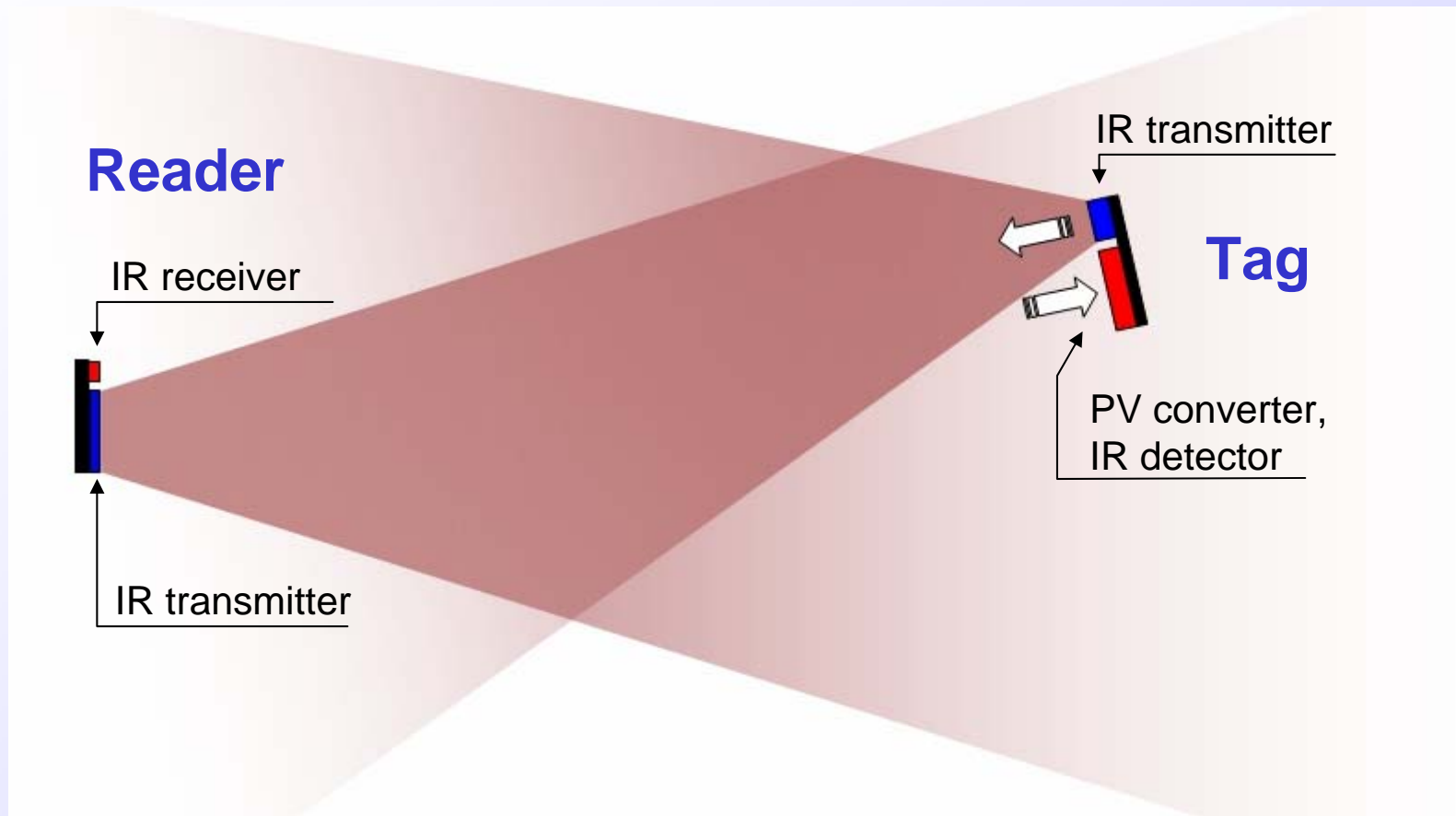
# The Scirocco IRID product family



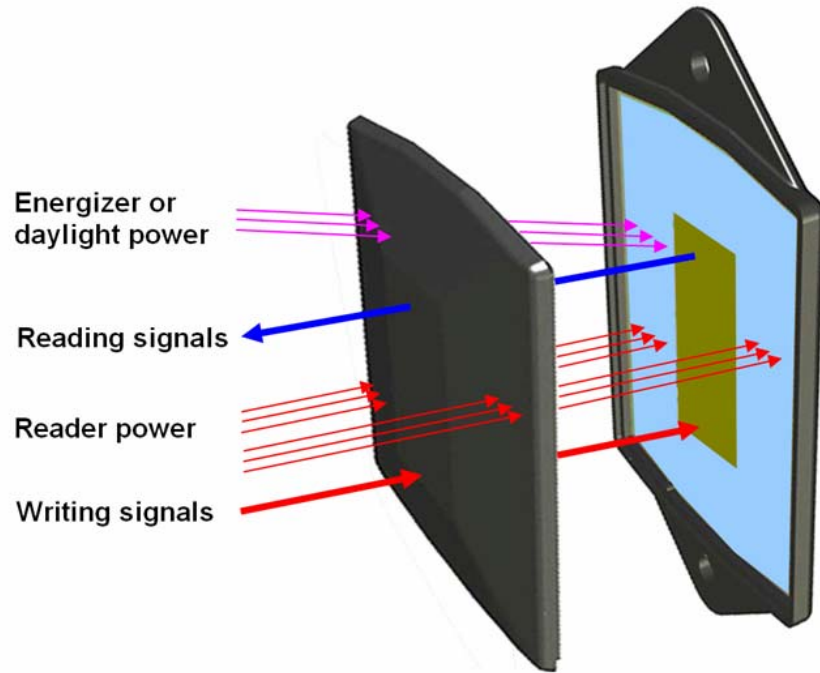
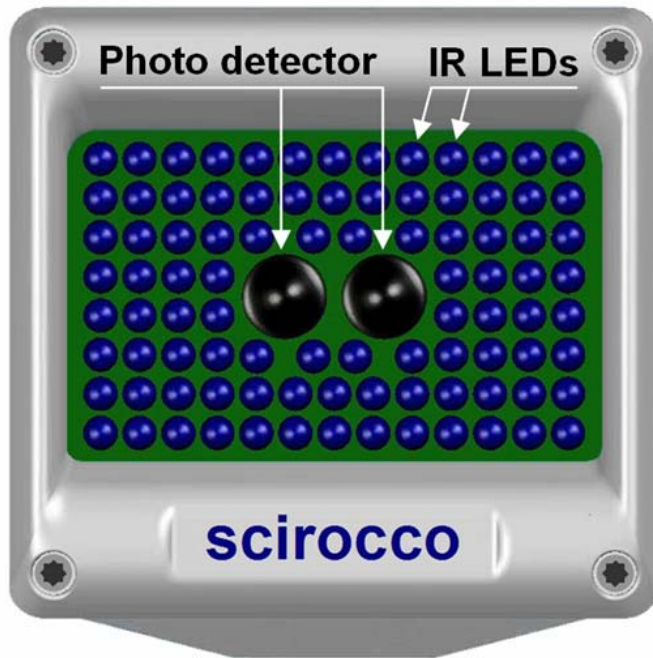
# ID and Data tag communication zones



# Technology

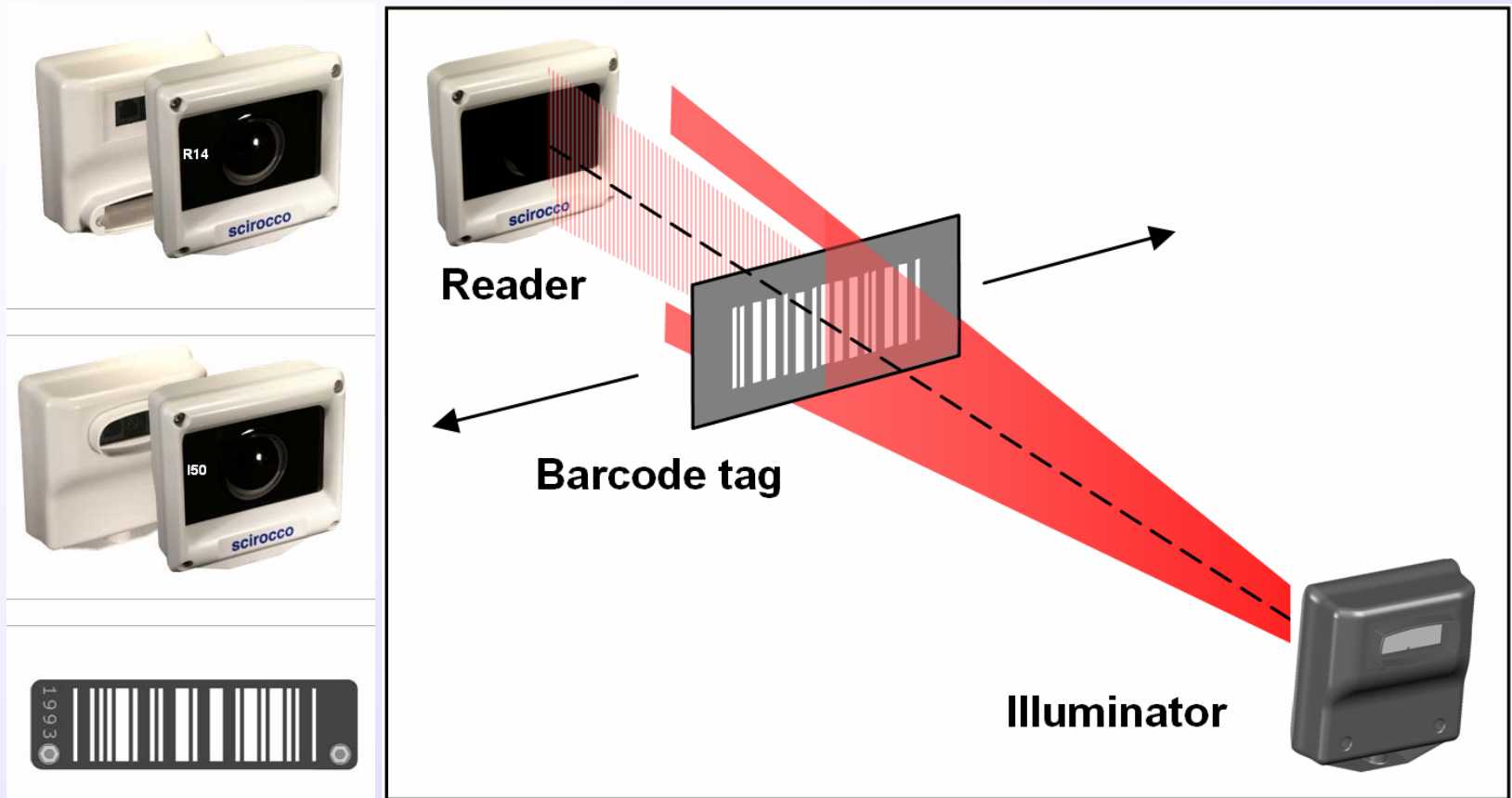


# Technical concept





# Scirocco IRID for extreme environments



# Applications

Large and valuable objects in demanding environments

- Car bodies
- Load carriers
- Lorries
- Trailers
- Trolleys
- Forklifts
- Buses
- Cars



- Long R/W range
- High reliability
- Dense readers
- Interference
- Water
- Space limitations
- Infinite-life tags
- Off-line ID

# Typical sites

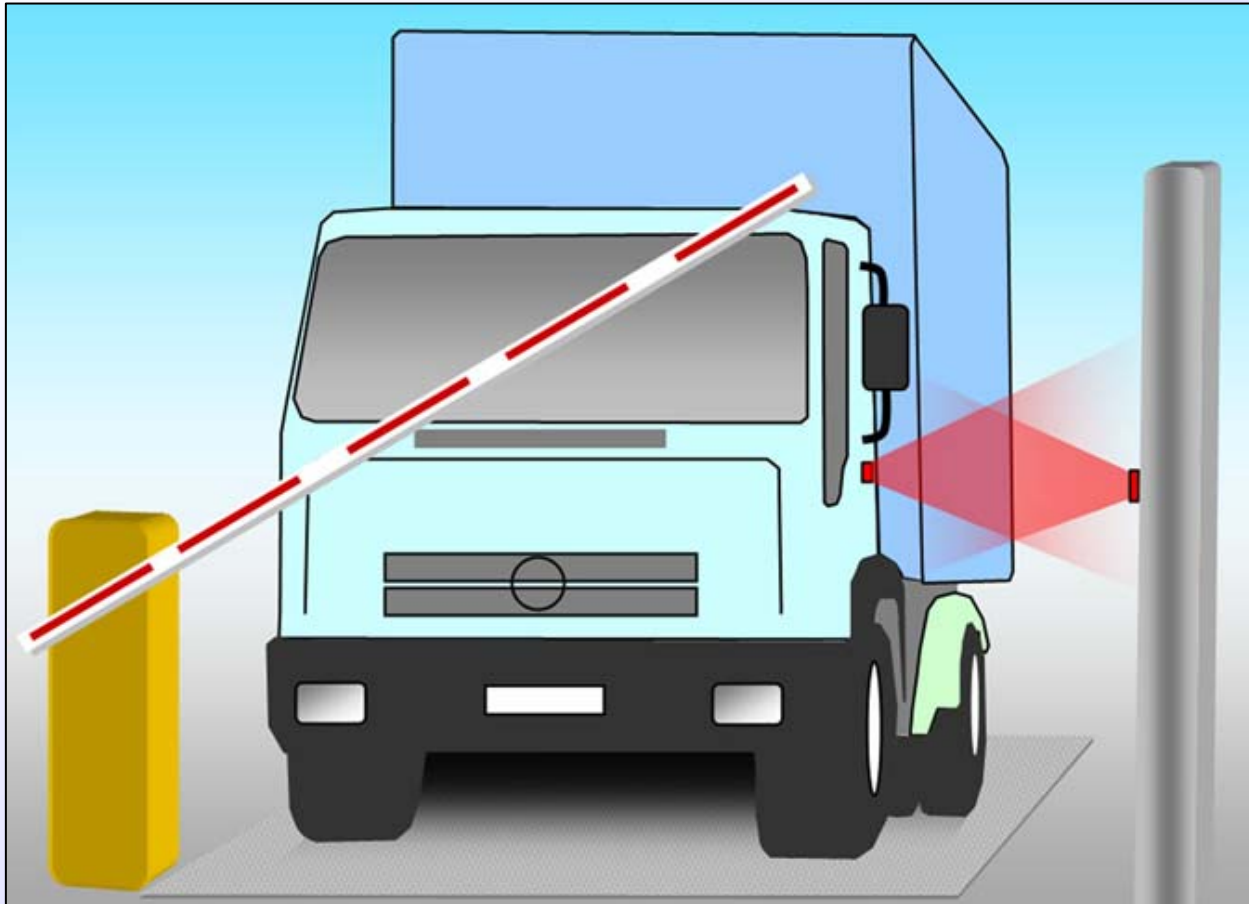
Reduced capital tie-up in large-object closed processes



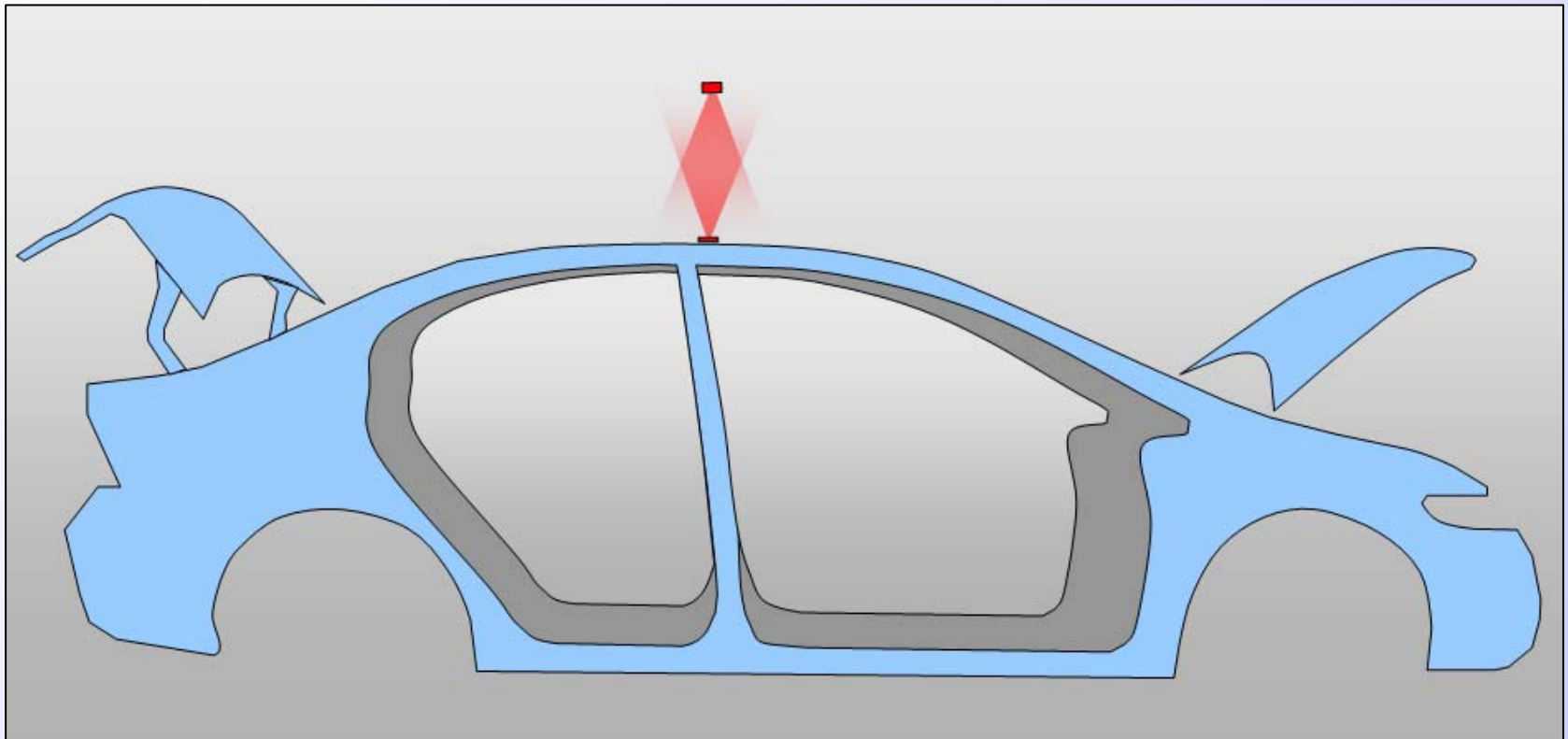
- Factory flow-lines
- Warehouses
- Concrete factories
- Garbage centres
- Mining premises
- Agriculture plants
- Distribution centres



# Trucks



# Car bodies



# Fueling island





# Recycling plant



# Synchronized factory





# IRID web sites

# IRID publicity

产品展示 >> IRID自动称重系统 >> IRID自动车辆识别系统

产品名称	产品规格
阅读器R12	

产品说明:



**IRID**  
InfraRed IDentification system

L'alternativa ai sistemi RFID per l'industria e la logistica


- HOME
- SOLUZIONI
- TECNOLOGIA
- PRODOTTI
- CONTATTI
- MAPPA SITO

**Tecnologia**  
IRID non ha bisogno di antenne, cinescopio o lettore, questa facilita l'applicazione nei più diversi campi di applicazione, il controllo e la gestione della flotta di automobili, nella identificazione di pallet e container, nella logistica, nell'industria e...

**Applicazioni**  
Automazione di Produzione  
Identificazione e tracciamento delle di lavoro di Robot  
Assemblaggio automatico  
Logistica in area aperte  
Identificazione container  
Container metallici  
Terminali di lavoro...

**TraceLine**  
IRID Systems  
presents

The IR Revolution in Auto-ID  
from the innovators at Scirocco AB, Sweden



**TraceLine, Inc.**  
We are the US distributors for the Scirocco line of revolutionary IRID technology hardware, Tags, Readers, Accessories and Service.

**Scirocco AB, Sweden**  
Scirocco AB is the world's leading developer and manufacturer of IRID Auto-ID Tags and Readers.

**Scirocco IRID Tags**  
Scirocco IR Tags are always passive. They become active only when they need to be. So, they do the job of active RF tags with the additional advantages of No Batteries, No Antennas and No RF Circuitry.

**RFID SOCIETY** ABOUT US | MISSION | SERVICES |


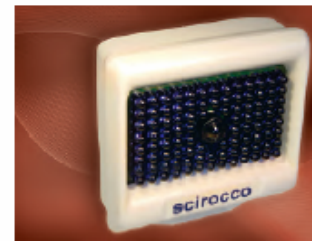
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**RFID Index™**  
Today: 19.05  
13 Feb 2006  
Yesterday: 19.05  
12 Feb 2006  
Go to RFID Index™  
(unofficial index)

**New resources**  
**IRID - Infrared ID**  
Infrared RFID (IRID) systems with passive tags and directional readers can have excellent reading- and writing distance. The system is unaffected by metal structures, has no crosstalk between readers and is undisturbed by EMI. IRID can solve some problems with conventional RFID in the kHz, MHz and GHz bands.

**Upcoming events**  
RFID Society to be revamped...  
Look forward to our pre-release early in 2006, when

of RFID Society - it's free! You'll receive our monthly New members in almost 40 countries

Scirocco's reader can pick

that have accelerometers—sensors that respond to movement. When a tagged object moves, its tag emits a series of ultrasound tones that humans can't hear. A detector picks up the tones from as far away as 45 feet, translates them into a serial number and sends that number along with its own detector identifier to a software system residing on a central server. The software knows which room the

tag's cost should fall to \$10. Scirocco, a Swedish systems integrator, had the bright idea of using infrared technology to transmit information. Staffan Sjogren, Scirocco's managing director, says infrared bridges the gap between short-range low-frequency RFID systems and longer-range UHF or active systems, which can have a read range of 15 feet (5 meters) or more. Its Solar Tags can be read from as far as 12 feet (4 meters). The tags gather energy from the sun or other light sources and continually send out infrared signals that contain a unique 32-bit serial number. The tags can store up to 128 bytes of additional data. The system is immune to most forms of electromagnetic interference.

**RFID Centre** Independent European Centre for Radio Frequency Identification

13th February 2005

Backed by UK Government

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Scirocco AB has its headquarters and R&D in Stockholm, Sweden, and manufactures based on battery-less tags and directional, ultra-compact readers with up to 4 m

RFID Journal January/February 2005

# Scirocco IRID!

