InfraRed Identification (IRID)

Stockholm-Kista, Sweden
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

Readers
- R11
- R12
- R15
- R16
- R10

ID Tags
- T10
- T12
- T14
- T20
- T22
- T24

Data Tags
- T20
- T22
- T24

Handheld reader
- S50

Reader & Energizer
- E70

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ID and Data tag communication zones

T10/T12/T14 ID tag read zones

T20/T22/T24 Data tag read/write zones
Technology

Reader

IR receiver

IR transmitter

Tag

IR transmitter

PV converter, IR detector
Technical concept

- Photo detector
- IR LEDs
- Energizer or daylight power
- Reading signals
- Reader power
- Writing signals
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

Objects vs Requirements
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 with dispensers

Reader

Tag

2007/03/13
Recycling plant
Synchronized factory
IRID publicity

IRID web sites

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Scirocco IRID!

No radio, no hazard, no batteries, easy