

Long-range RFID Readers vs ANPR – Which Is Best?



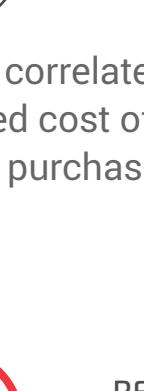
Long-range vehicle identification is a fast and reliable system for automatically identifying both drivers and vehicles.

When it comes to specific technologies, RFID and ANPR tend to be the most popular technologies in the vehicle identification market.

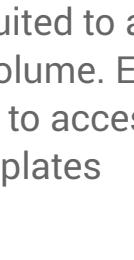
But which one would be best for you?

1

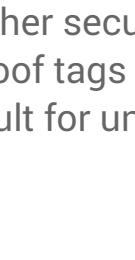
ANPR vs RFID Readers



ANPR



TECHNOLOGY

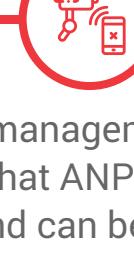


RFID

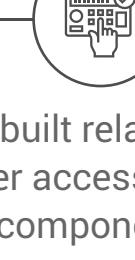
Contains optical character recognition within an infrared camera, adjustable read range of 2-10 metres

Utilises RFID technology, using UHF and microwave technology with adjustable read range up to 10m

ANPR



COST



RFID

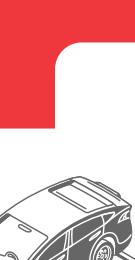
The ANPR camera is a one-off cost, with money being saved in the long run due to no need for the added cost of tags

The more secure the reader correlates with a higher price and added cost of the RFID tags needing to be purchased over time

ANPR



SECURITY

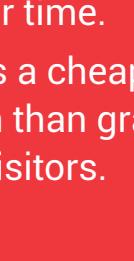


RFID

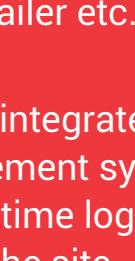
Better suited to applications with higher visitor volume. Easier for unauthorised vehicles to access by using false number plates

Better suited to higher security applications as tamper-proof tags are available and it's more difficult for unauthorised vehicles to access

ANPR



DURABILITY



RFID

Camera unit more susceptible to harsh environments (snow, dust, sand, construction equipment) and is better suited to more stable environments

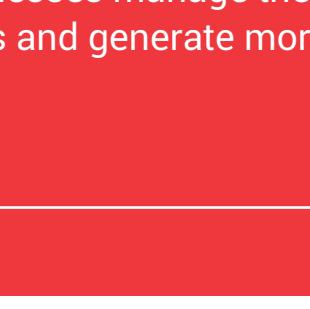
More durable due to the underlying secure RFID technology working with passive and active tags

2

ANPR vs RFID: Use Cases



ANPR

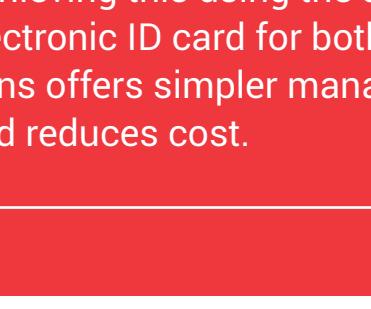


Visitor Access Control

The ability to integrate ANPR with a visitor management software allows operators to easily grant access to visitors over a specific date or time.

This is a cheaper and less manual option than granting RFID tags to new visitors.

RFID

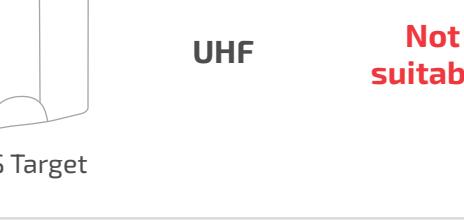


Asset Management

Long range RFID system is ideal for highly secure asset management solutions, enabling the verification of the vehicle and asset (caravan, boat, trailer etc.) to be verified together.

This can also be integrated with an asset management system that keeps a real time log of all units on and off the site.

ANPR



Car Park Management

All in one ANPR units are able to integrate with car park management solutions to register unauthorised vehicles and issue car park tickets.

This is an ideal solution to help businesses manage their car parks and generate more revenue.

RFID



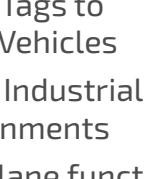
Integrated People & Vehicle Access Control

The ability to control access for people both when they are on foot and when they are driving a vehicle offers great benefits in many applications.

Achieving this using the same electronic ID card for both applications offers simpler management and reduces cost.

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Transit vs. Target vs. Reach



Technology	Metal Suitability	Maximum Range	Passive / Semi-passive Tags	Recommended Applications
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UHF

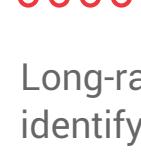
Not suitable

5 m
16.4 ft

Passive

- Parking applications
- Private Gate Automation

uPASS Reach



UHF

Not suitable

10 m
32.8 ft

Passive

- Parking applications
- Private Gate Automation

uPASS Target



Microwave

Suitable

10 m
32.8 ft

Semi-passive

- Public Road & Traffic
- Mounting Near Metal
- Fixing Tags to metal Vehicles
- Heavy Industrial Environments
- Multi-lane functionality

TRANSIT