



2023 / RFID Tracking Business Report

RFID in AV.

Is this technology going to help my business overcome my most frustrating warehouse challenges?

The AV industry is a rapidly growing sector, especially after the pandemic repercussions cooled down and events are starting to get back to normal. However, the AV industry also faces a number of challenges, including projects carried out differently than planned, making sure all items are checked when they get back and making sure all items are marked available again on time. For example:



45,5%* of projects are **carried out differently** than initially planned, as hundreds of extra items are added before the trailer leaves.



65,5%* of returned items are **marked as delayed**, mostly because staff forgets to update their position when they get back.

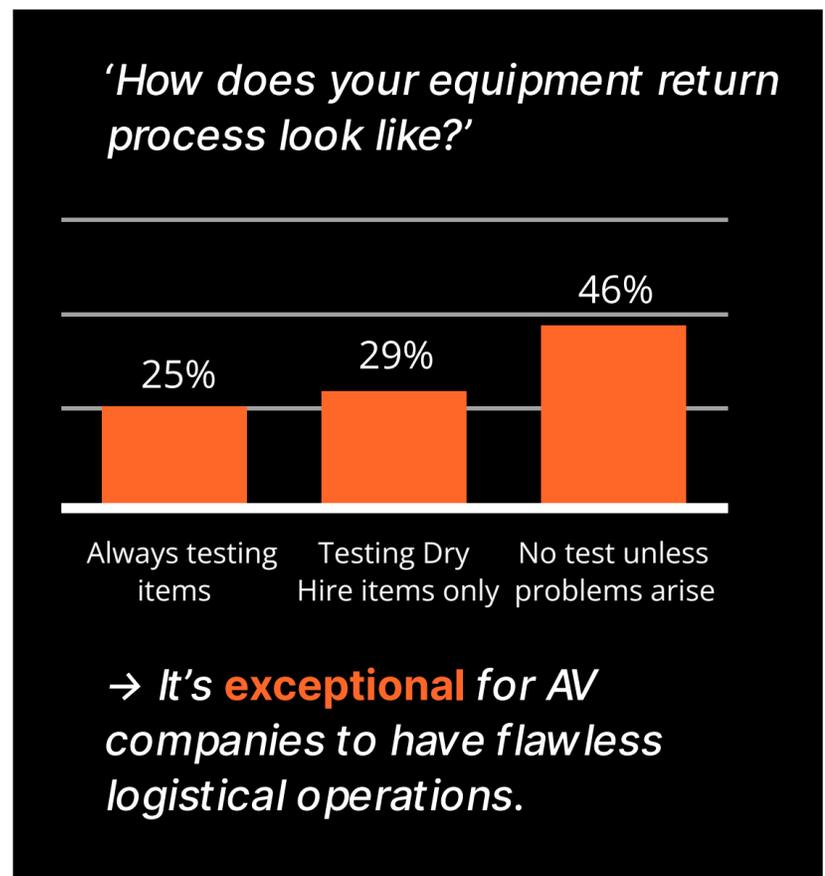
Traditionally, AV companies have tried to tackle these challenges using manual equipment tracking methods, such as QR-barcode tracking, or even spreadsheets. However, these methods are time-consuming and error-prone.

These practices may result in:

- on-site stress & major delays
- significant stock differences
- damaged credibility & reputation

In this report, we will discuss how a modern tracking solution can tackle these challenges: **RFID**.

* Sample is based on project statistics from Rentman users in 2022



RFID tracking is a popular technology that has been around inventory management and tracking for some time now. Short for Radio Frequency Identification, with this technology, one can instantly scan multiple items, without being in line-of-sight. Read more about the principles behind RFID [here](#).

The AV industry is known to handle large volumes of inventory, which can imply that RFID can be an optimal solution as well, just as for other industries. However, RFID thrives in standardized and streamlined production environments. How will it fare in an industry where the nature of inventory fluctuates from one week to another? Follow the report to find out more about how to make the most out of RFID for your AV business, and you will decide: Is RFID a temporary hype, or is it the 'real deal'?

RFID saves time. A lot of it.

It's no secret that one of the main benefits of this technology is saving time. We did some tests ourselves: we grabbed some light fixtures and some cables, and we scanned them using both QR tracking and RFID tracking.

Using QR Tracking

With QR tracking, we had to take each item from the shelf and individually scan them using our readers. Besides scanning the actual QR labels, it also took some time to locate them, as they could be placed in different locations.

Using RFID Tracking

With RFID tracking, if all items have RFID tags attached, all we had to do was take the items from the shelf and place them in the meatrack / flight case. Once everything was inside, we scanned everything instantly with an RFID reader.

Here are the results of our scanning test:

Example 1:

Scan 36 light fixtures in a meatrack

QR codes → 30 seconds

RFID tags → **3 seconds**

Example 2:

Scan 70 cables in a flight case

QR codes → 2 minutes

RFID tags → **10 seconds**



That's a **90% decrease** in time spent scanning.

However, time is not the only benefit of RFID. This technology also helps you:

👍 Improve accuracy

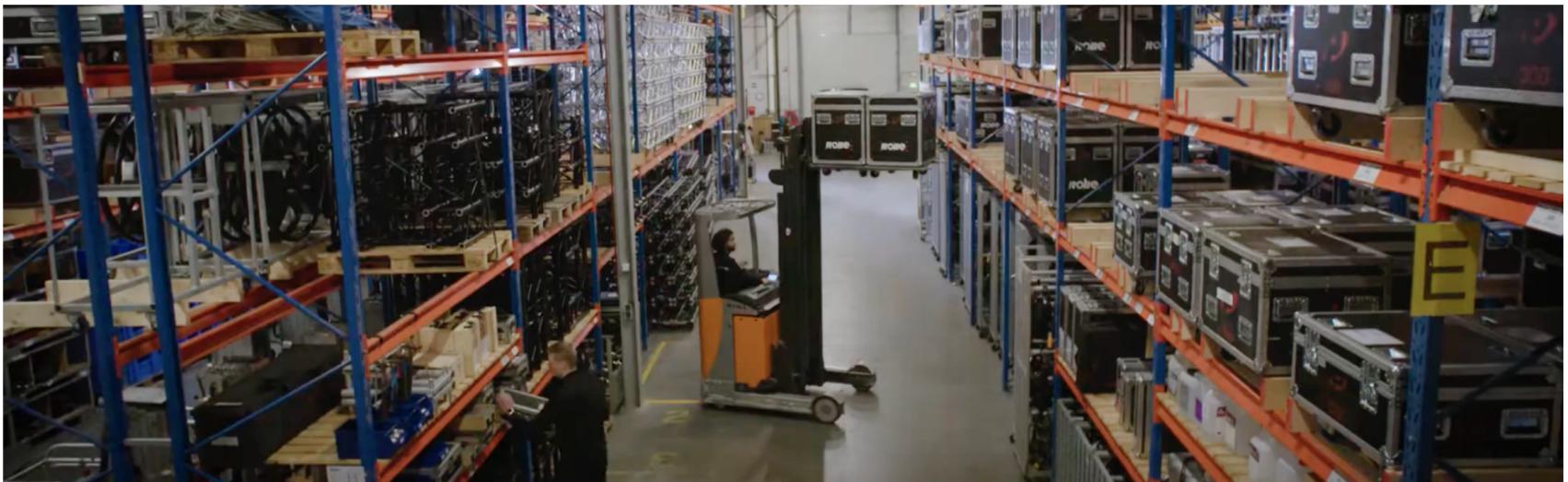
Manually processing hundreds of items per week can lead to human errors. With an RFID system in place, you won't have to manually scan every piece of equipment. Simply pack everything up and scan everything using your reader.

For example, you need 50 cables for a project, but you only packed 49 by mistake, the reader will automatically signal that there's a missing item.

👍 Improve traceability

Serializing / tagging all your equipment is a serious project in itself. However, once done, it will improve equipment traceability. You will be able to understand where items come from once they return from various jobs.

Compared to QR tracking, RFID allows you to return items in bulk and instantly signals which projects returned complete and which didn't.



Ok, RFID sounds intriguing. However, nothing is perfect. As with many new solutions in the market, there are some drawbacks that have to be taken into consideration:

🗨️ High investment costs

Investing in any new technology can significantly influence business expenditure. RFID tracking is no small feature, making it expensive for some AV companies.

Expect to invest thousands of dollars if you have any plans to implement RFID in your daily operations. For more information about potential investment costs, visit page 8.

🗨️ Errors happen in certain situations

Achieving the dream warehouse continues to be a dream for most AV companies. Let's face it, we just don't have time to make sure our warehouses have optimal shelf configuration.

Because of this, there are situations when RFID readers can get confused because there are too many tags around. To avoid this, we recommend setting up a dedicated RFID zone, which should be away from your shelves.

Note! These examples are not just purely theoretical. They have been developed based on real-life cases, which will be showcased later on.



It's not just what you do, it's how you do it. The industry is changing fast. Success is now about how you manage the people, the process, and the technology. It's about how you work. It's about how you think. It's about how you lead. It's about how you win.



Lost for Live

It's not just what you do, it's how you do it. The industry is changing fast. Success is now about how you manage the people, the process, and the technology. It's about how you work. It's about how you think. It's about how you lead. It's about how you win.

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Resolution X

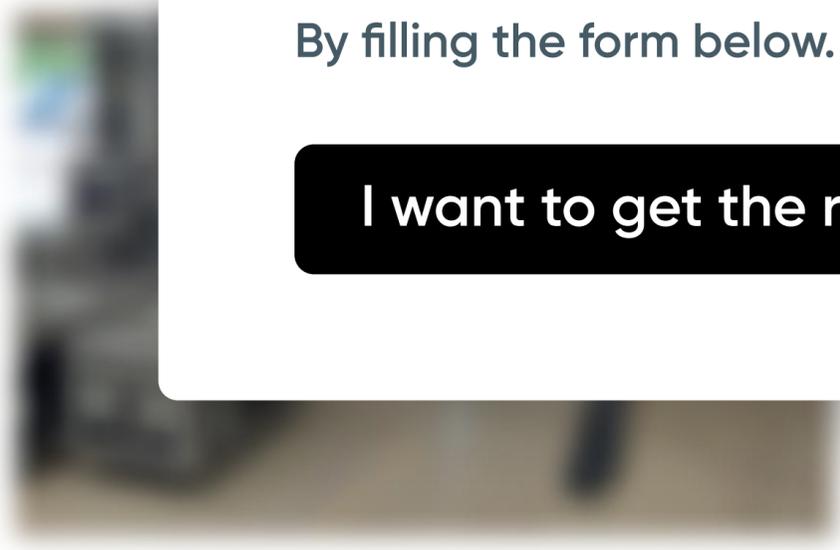
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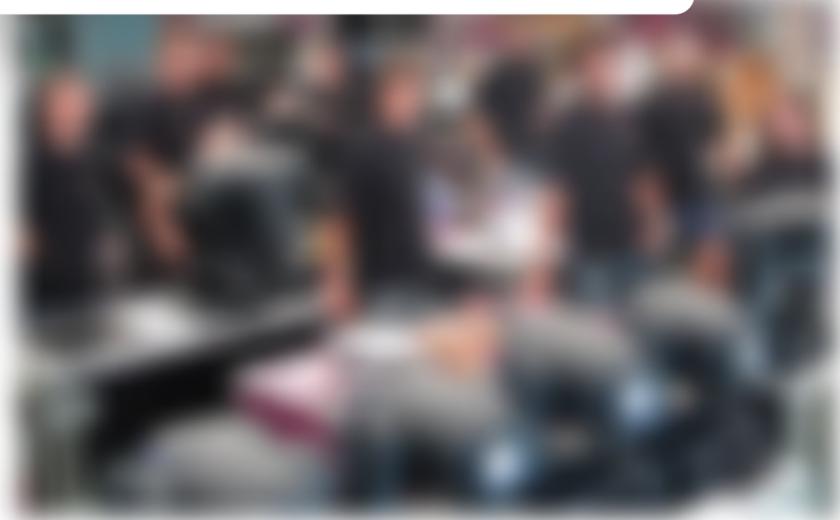
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Is RFID the right fit for my business?

There are many reasons why RFID is the perfect inventory management solution for your business. It can help you track your inventory, reduce shrinkage, and improve your supply chain. RFID tags are small and can be attached to any item, making them easy to use. They also provide real-time data, so you can see your inventory levels at any time. This means you can always have the right amount of stock on hand, and you can avoid the costs of overstocking or understocking.

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Inventory	Inventory	Inventory	Inventory	Inventory	Inventory	Inventory

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Introduction

In order to build a system, an engineer must first choose a microcontroller. This choice has the most significant impact on the system's performance and the cost of the device. This report will discuss the various factors that influence the choice of a microcontroller and provide a list of recommended devices.

Choosing the right hardware.

Microcontroller

When choosing a microcontroller, the engineer must consider several factors. The first is the cost of the device. The second is the performance of the device. The third is the availability of the device. The fourth is the compatibility of the device with the system. The fifth is the power consumption of the device. The sixth is the size of the device. The seventh is the reliability of the device. The eighth is the ease of use of the device. The ninth is the support for the device. The tenth is the documentation for the device.

Hardware components

Because of the variety of hardware components available, the engineer must choose the right components for the system. The first is the power supply. The second is the memory. The third is the I/O devices. The fourth is the communication devices. The fifth is the peripheral devices. The sixth is the sensors. The seventh is the actuators. The eighth is the display. The ninth is the keyboard. The tenth is the mouse.

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Tagging your inventory.

The first step in the process of inventorying your business is to tag your inventory. This process is essential to the success of your business. The process involves the creation of a list of all items in your inventory, including their location, quantity, and value. This process is essential to the success of your business. The process involves the creation of a list of all items in your inventory, including their location, quantity, and value. This process is essential to the success of your business.

By tagging your inventory, you can track your inventory levels and identify areas where you need to restock. This process is essential to the success of your business. The process involves the creation of a list of all items in your inventory, including their location, quantity, and value. This process is essential to the success of your business.

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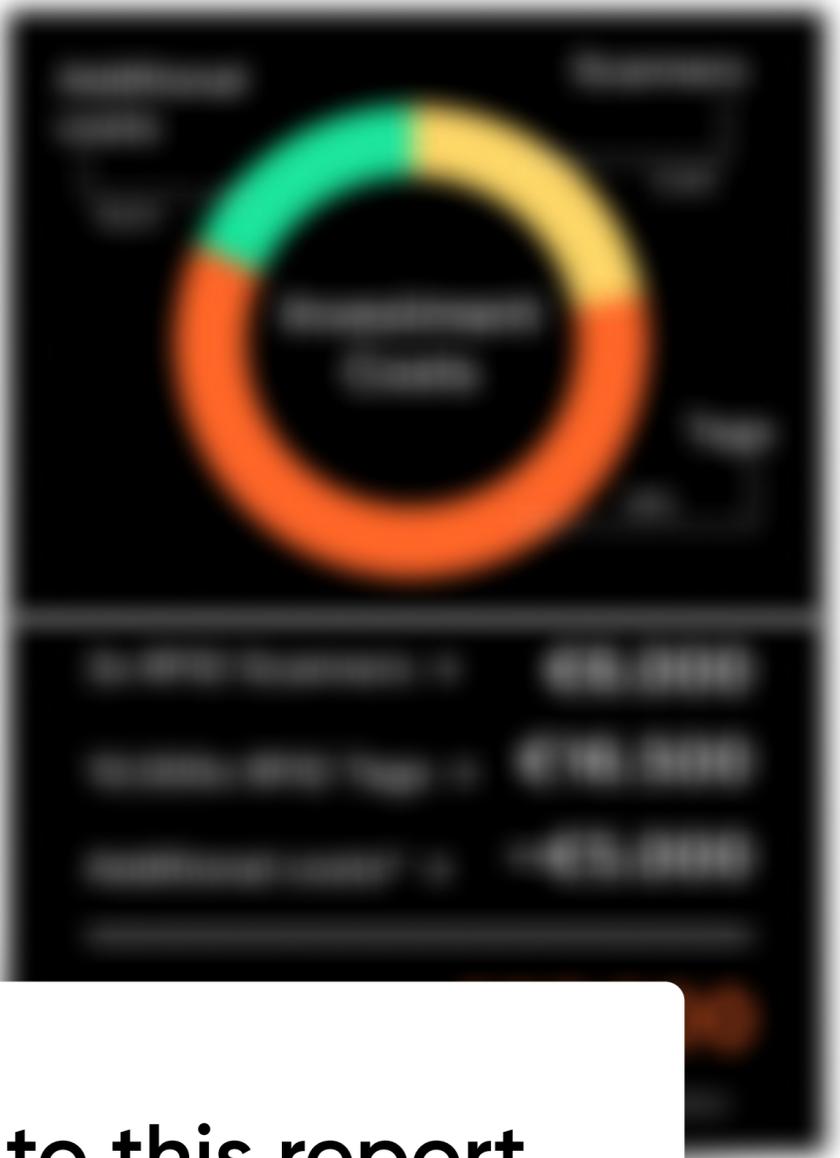
Item	Quantity	Value
Item 1	100	\$100
Item 2	200	\$200
Item 3	300	\$300
Item 4	400	\$400



Investment costs.

How the investment costs...
...are calculated...

...the investment costs...
...are calculated...



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Category	Value	Value
Category 1	€10,000	€10,000
Category 2	€15,000	€15,000
Category 3	€15,000	€15,000

How the investment costs...
...are calculated...

Category	Value	Value
Category 1	€10,000	€10,000
Category 2	€15,000	€15,000
Category 3	€15,000	€15,000

How the investment costs...
...are calculated...

Let's go back to the beginning.

In our previous report, we explored the challenges of AI in the workplace. We discussed how AI is being used to automate tasks, improve productivity, and create new jobs. We also looked at the potential risks of AI, such as job displacement and bias.

In this report, we will explore the opportunities of AI in the workplace. We will discuss how AI can be used to create new jobs, improve productivity, and enhance the customer experience. We will also look at the potential risks of AI and how to mitigate them.

Time to determine if AI is for you.

The AI report is a comprehensive guide for businesses and individuals looking to understand the impact of AI on the workforce. It covers the latest trends, opportunities, and challenges, and provides practical advice on how to leverage AI for success. The report is available for free download.



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AI REPORT

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Company: