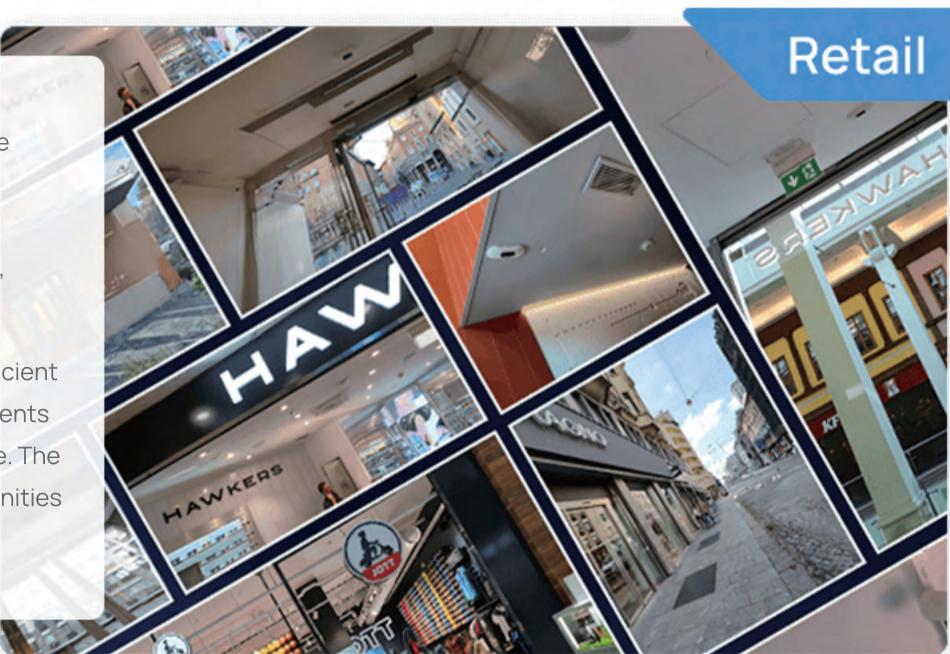
Background

Retail shops have long been the backbone of consumer culture, serving as the primary touchpoints where products meet customers. Over the centuries, retail has evolved from traditional marketplaces to sophisticated, multi-channel environments designed to enhance the shopping experience. As the retail landscape continues to change, driven by technological advancements and shifting consumer behaviors, understanding the dynamics of retail operations has become increasingly crucial.

In the dynamic world of retail, staying ahead requires a deep understanding of customer behavior and efficient management of store operations. As the industry continues to evolve, driven by technological advancements and changing consumer expectations, retailers must embrace innovative solutions to remain competitive. The integration of advanced technologies, such as AI ToF people counting sensors, offers significant opportunities for retailers to enhance the shopping experience, optimize resources, and drive growth.



Challenges

Inaccurate Foot Traffic Data

Without precise people counting sensors, retailers often rely on manual counting or basic infrared sensors.

Energy Inefficienc

Integrating people counting data with building management systems can improve energy efficiency.

Limited Marketing Effectiveness

Accurate foot traffic data is vital for measuring the success of marketing campaigns and promotions.layout design.

Inadequate Customer Insights Detailed customer insights help in understanding shopping patterns and

Inefficient Space Utilization

Effective use of retail space is critical for profitability.

Inefficient Staff Allocation

Poor Store Layout Optimization Understanding how customers navigate the store is crucial for effective

Accurate data on customer flow is essential for optimal staff allocation.



Introduction to the Device

What Is an AI ToF People Counting Sensor?

An Al Time-of-Flight (ToF) People Counting Sensor is an advanced device that combines Time-of-Flight technology with artificial intelligence (AI) to accurately count and track people in a given area. These sensors are widely used in various environments, including retail stores, shopping malls, airports, and public transportation systems, to monitor foot traffic and gather data on occupancy and movement patterns.

Al ToF People Counting Sensors represent a significant advancement in monitoring and analyzing human movement. By combining the precision of Time-of-Flight technology with the intelligence of AI, these sensors provide highly accurate, real-time data that can transform operations across various sectors. Whether in retail, transportation, or public spaces, Al ToF People Counting Sensors enable better decision-making, improved customer experiences, and enhanced operational efficiency.

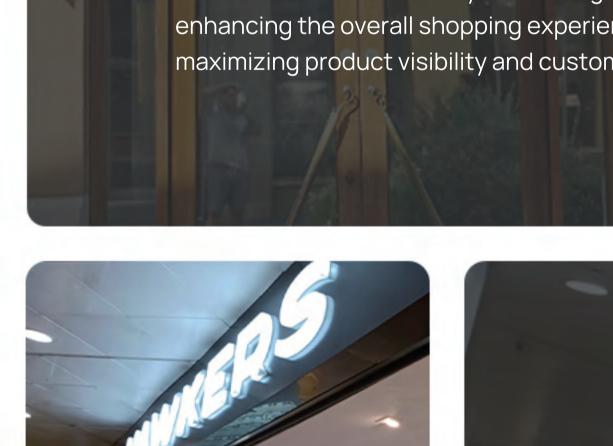
Solution

The deployment of the VS133 Al ToF People Counting Sensor in over 700 retail shops across Europe, including notable brands like JOTT, HERNO, and HAWKERS, has significantly enhanced their retail operations. By providing accurate, real-time insights into customer behavior through group counting, flow analytics, queue management, heat mapping, and conversion rate analysis, these retailers have optimized staff allocation, improved store layouts, and executed more effective marketing strategies. As a result, they have seen increased sales, improved customer satisfaction, and enhanced operational efficiency. Embracing this advanced technology has given JOTT, HERNO, and HAWKERS a competitive edge in the rapidly e volving retail market, showcasing the transformative power of data-driven decision-making.

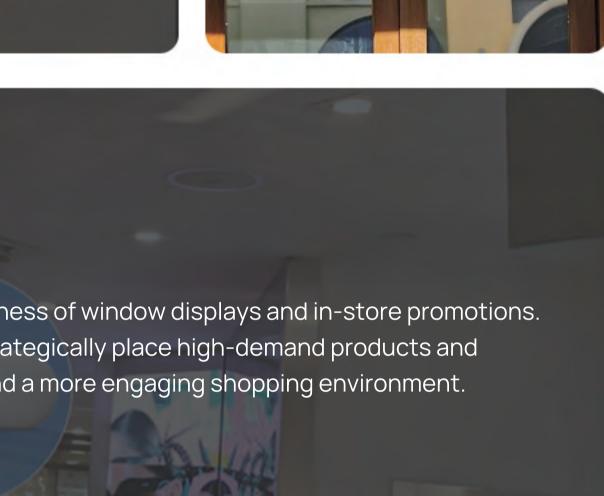
Case Study



JOTT JOTT, known for its stylish outerwear, has integrated the VS133 sensor to better understand customer flow during different seasons. By analyzing foot traffic data, JOTT can identify which products attract the most attention and adjust their inventory and marketing strategies accordingly. This has led to more targeted promotions and improved inventory management, ensuring that popular items are always in stock.



HERNO As a luxury brand, HERNO emphasizes providing a premium shopping experience. The VS133 sensor helps HERNO maintain optimal staff-to-customer ratios by monitoring foot traffic in real-time. This ensures that each customer receives personalized attention, enhancing the overall shopping experience. Additionally, HERNO uses the data to design elegant and effective store layouts, maximizing product visibility and customer engagement.



HAWKERS

HAWKERS

HAWKERS, a trendy eyewear brand, uses the VS133 sensor to track the effectiveness of window displays and in-store promotions. By understanding customer behavior and movement patterns, HAWKERS can strategically place high-demand products and promotional displays in high-traffic areas. This has resulted in increased sales and a more engaging shopping environment. 10 TO 10 TO 10 TO 10

Main Features

Group Counting

Objective: Accurately count groups of people entering and exiting the store.

Benefits: Helps understand family or group shopping behavior,

enabling stores to tailor services and promotions accordingly.

Flow Analytics

Objective: Analyze the flow of customers throughout the store.

Benefits:

Identifies high-traffic areas, optimizes store layout, and enhances product placement strategies.

Queue Management

Objective: Monitor and manage queues

effectively. Benefits: Reduces wait times, improves

customer satisfaction, and allocates staff efficiently during peak times.

Heat Mapping

Objective: Visualize customer movement patterns within the store.

Benefits: Identifies popular areas, improves product placement,

and enhances store layout for better customer engagement.

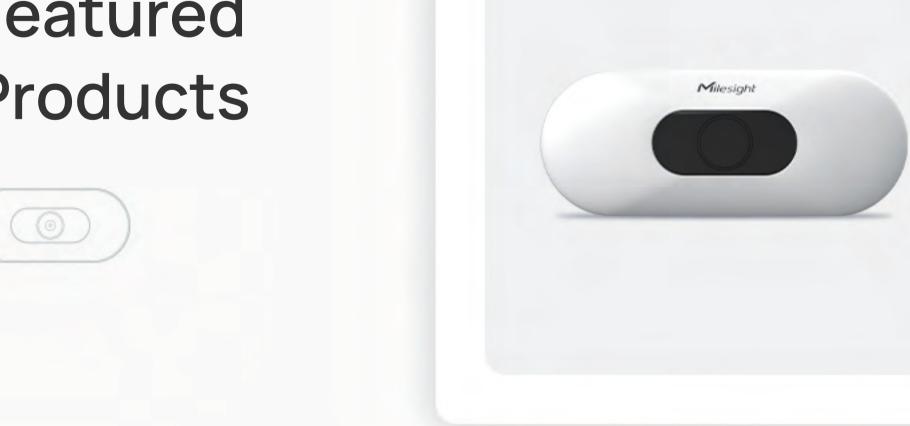
Conversion Rate

Objective: Calculate the conversion rate of visitors to buyers.

Benefits: Provides insights into the

effectiveness of marketing campaigns and promotional strategies, helping to optimize sales efforts.

Featured Products



VS133 AI ToF People Counting Sensor Line Crossing & Regional People Counting

Staff Detection and Adults/Children Differentiation Insightful Group Counting Advanced Heat Map 100% Anonymous Detection (GDPR Compliant) Industry-Leading 99.8% Accuracy

Extendable Multi-Device Stitching Device Management & Application Development

Results

High Accuracy

Enhanced Analytics

prone to errors due to overlaps, shadows, and other visual obstructions.

These sensors provide real-time data, allowing businesses to monitor and respond The VS133 AI ToF sensors offer higher accuracy compared to traditional people to changes in foot traffic immediately. This is particularly useful for managing crowd counting methods, such as manual counting or basic infrared sensors, which can be

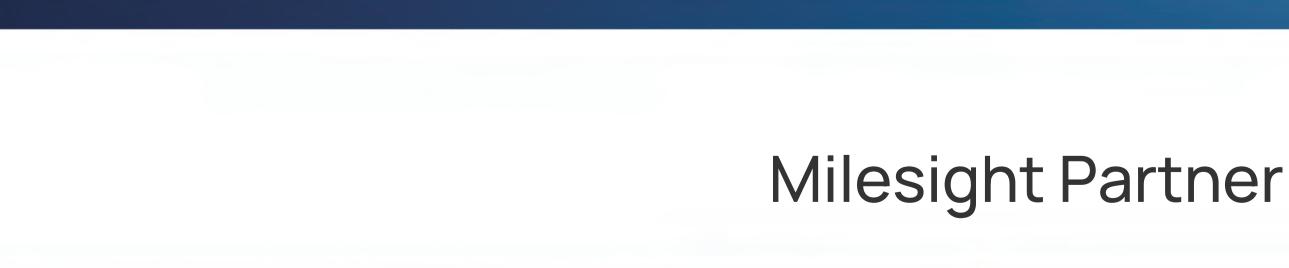
Real-Time Data

control, optimizing staffing, and improving customer service.

The VS133 Al ToF people counting sensors can be used in various environments and

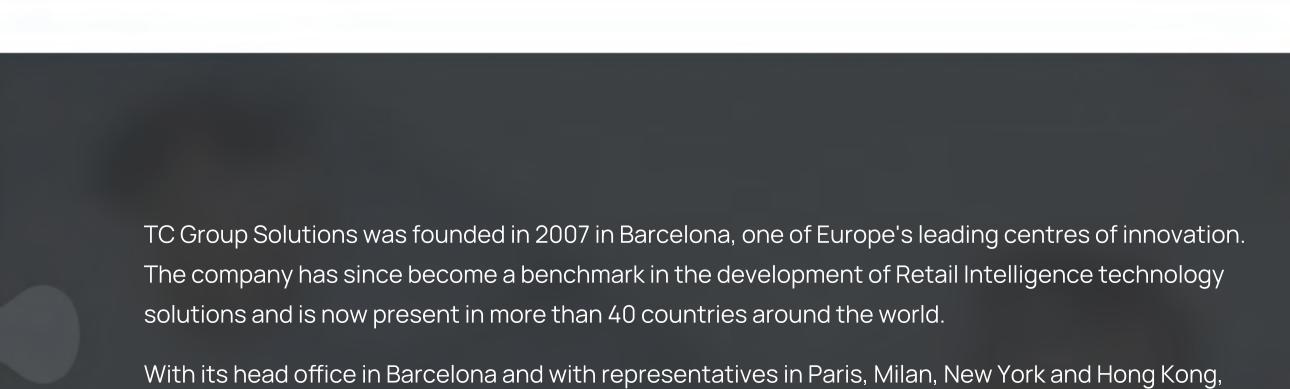
can be integrated with other systems, such as security systems, HVAC control, and

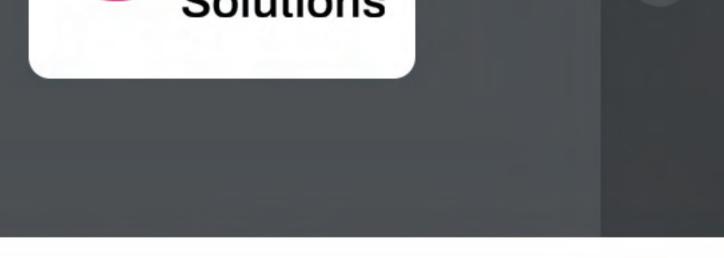
With the integration of AI, these sensors can deliver detailed analytics, such as peak hours, dwell times, and customer movement patterns, which are valuable for making informed business decisions.



customer management software, to enhance overall operational efficiency.

Versatility and Adaptability

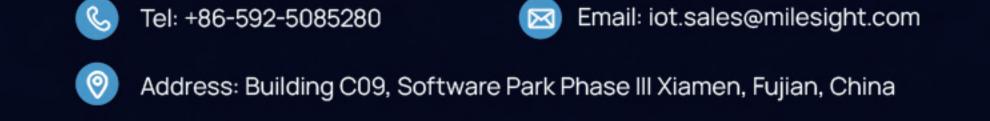




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