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About

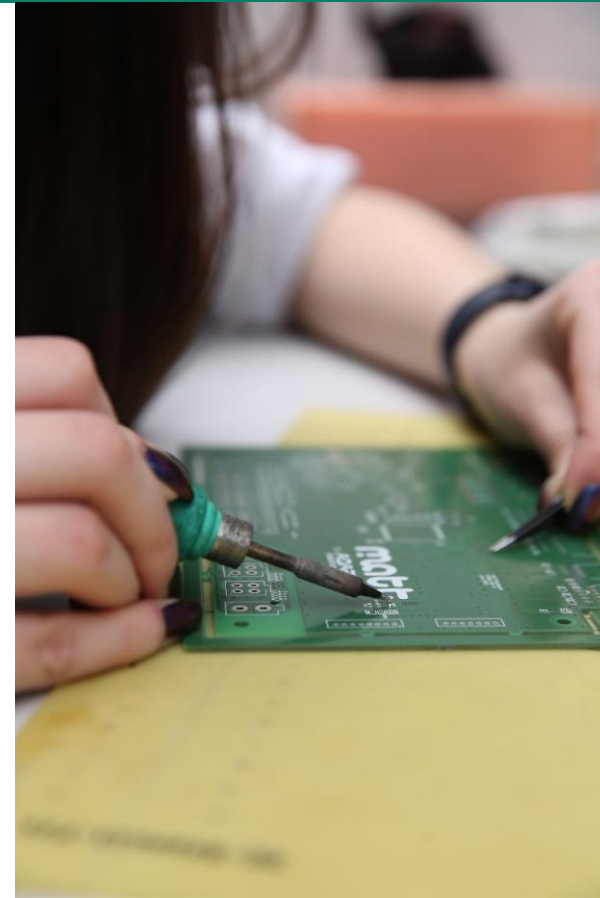


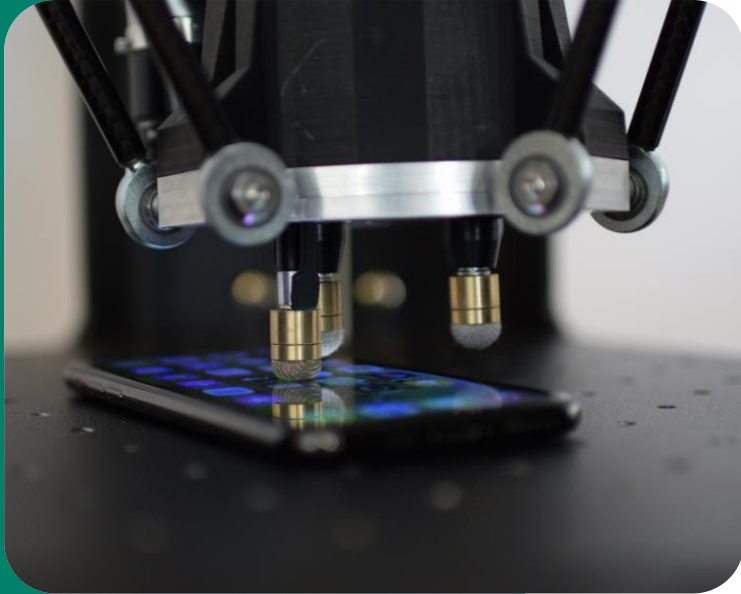
Enhancing human potential through robotic solutions

Accessible, high-standard automation

Supporting robotic automation goals from problem research, design & assembly to easy integration using AI and custom robotics.

Addressing diverse automation scenarios & problems in environments where automation is challenging to be brought & use cases are not addressed by existing solutions.

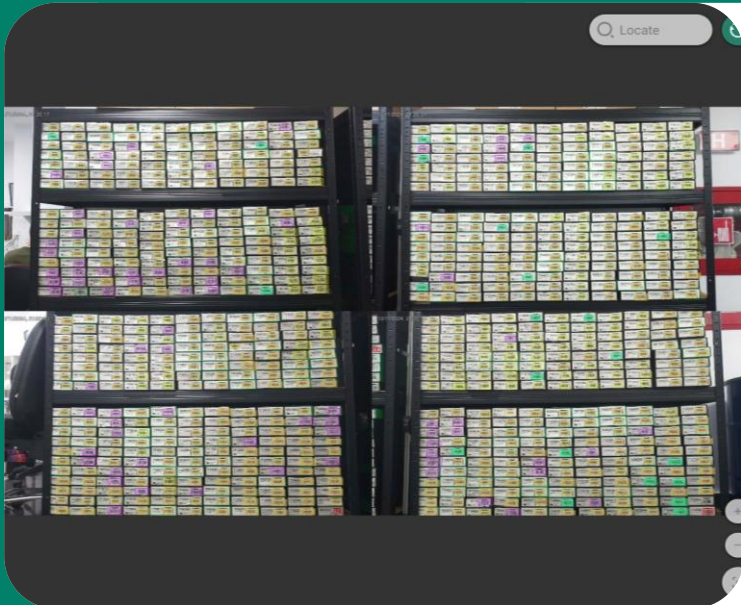




matt

**HMI & Device
testing
automation**

Product lines



**Inventory
monitoring and
tracking**

HMI Testing Problems

- Touchscreens are **driven by software**
- Software is regulated: an **extensive validation process** is required to comply to the various industry standards
- Errors introduced by traditional validation methods ranging from **manual to software driven**





Supports HMI development process, from the early stages, to production.

Adapting to different scenarios

User-friendly interface & programming

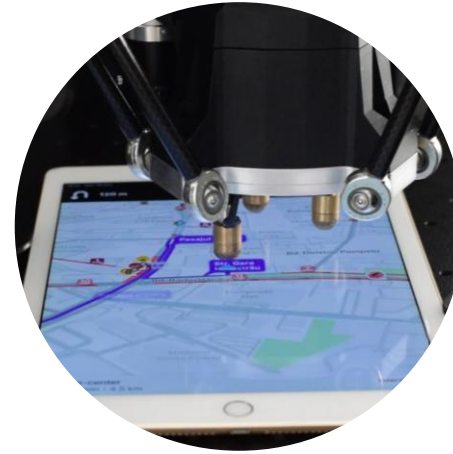
Test repeatability and precision

All-in-one platform



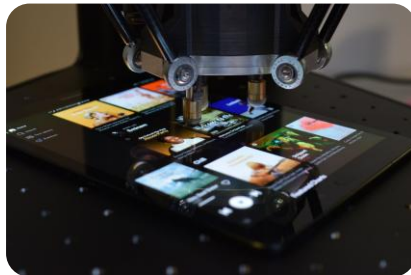
MATT Robot

- Three fingered effector able to simulate human gestures on a screen (tap, swipe, slide, pinch, zoom)
- High resolution industrial cameras paired with computer vision methods able to recognize any on screen content (buttons, icons, text, pop-ups, alerts etc.)
- Test flows programmed based on visual elements, the system is agnostic to OS type or version, as well as screen size.

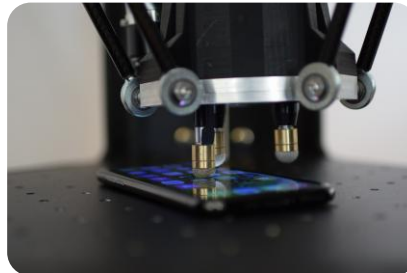


Capabilities

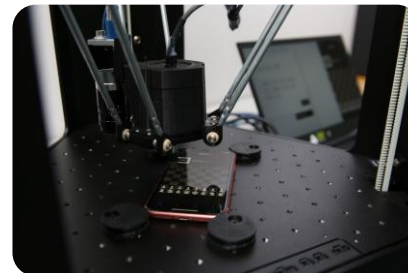
Interacting with devices throughout product development cycle, from R&D to production.



Gesture automation &
Multitouch testing



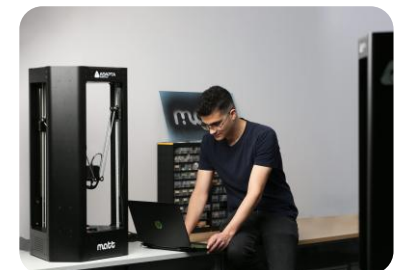
Hardware & Software
testing



Continuous,
24/7 testing



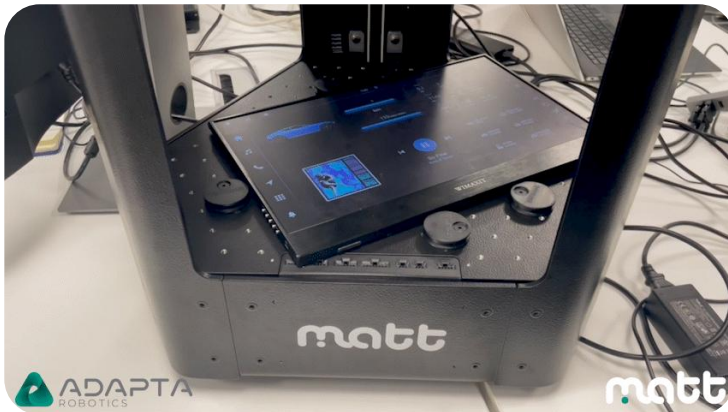
Flexible Functionality



Fast set-up

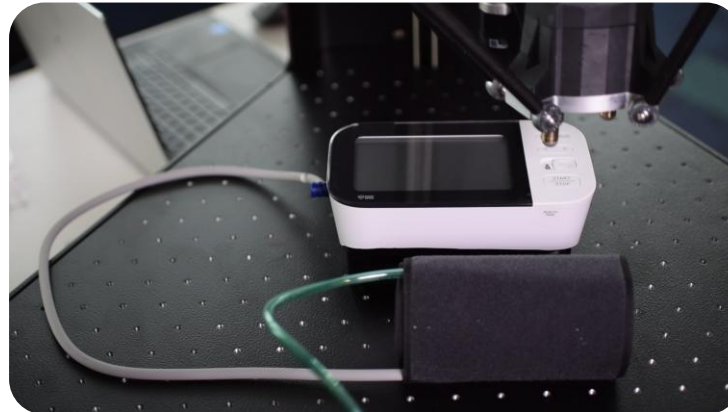
Focus Industries

AUTOMOTIVE



Growing **complexity of automotive technologies**;
Extensive validation process
Complying to **industry standards**;
High expenses in **warranty liability**.

MEDICAL



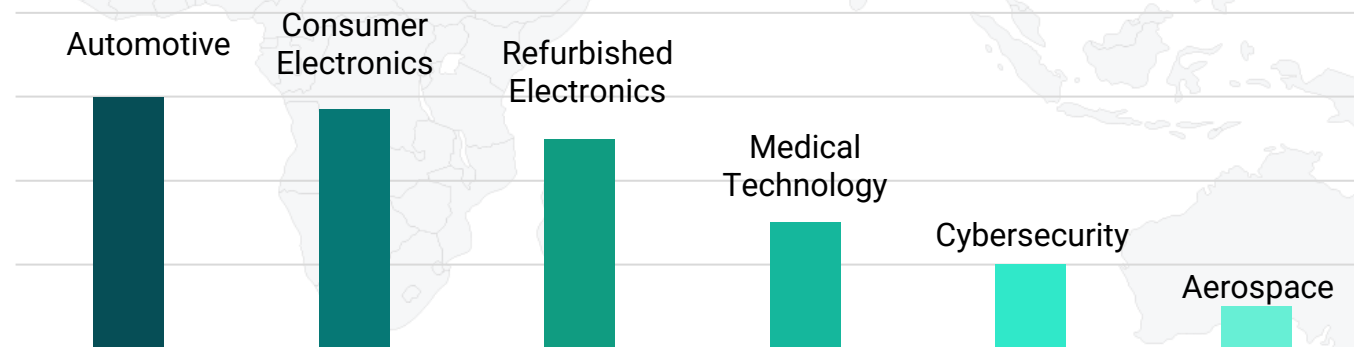
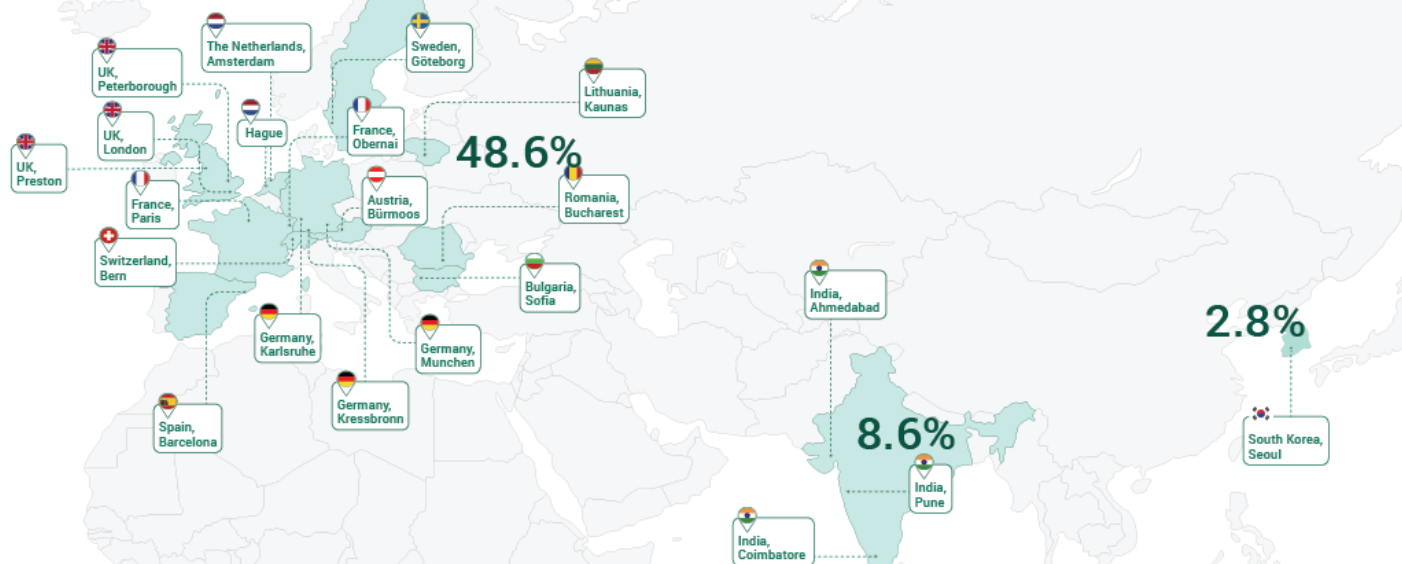
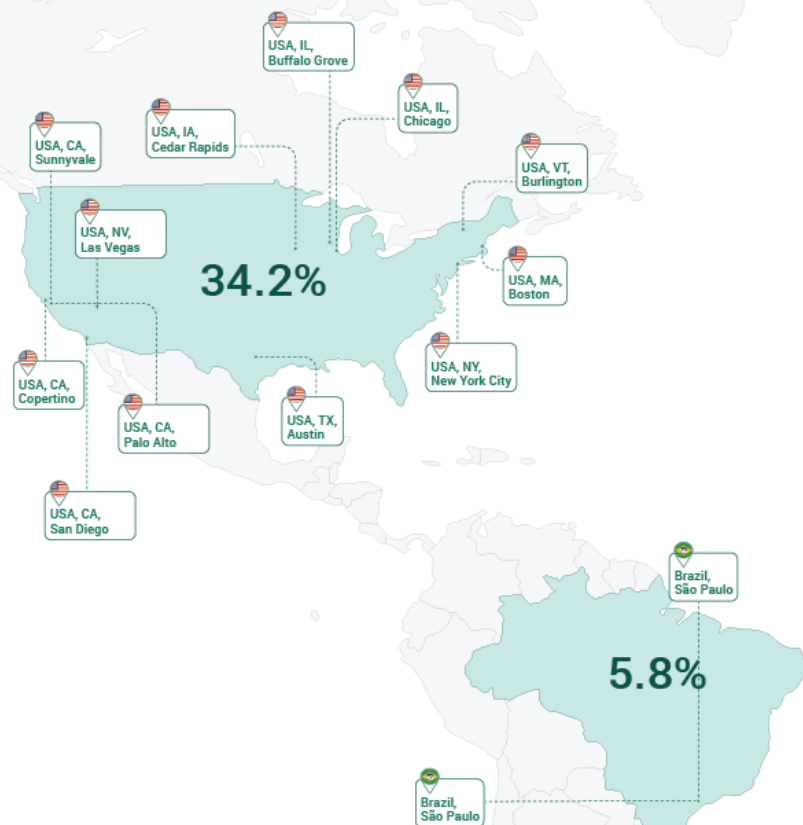
Medical device testing & certification require methods defined by **reliability and precision**.

REFURBISHMENT



High volume testing in different stages of the device refurbishment cycle
Rapid growing market

MATT Adoption



revendo



hagergroup



YPSOMED
SELF CARE SOLUTIONS



SEMSOTEC
GROUP

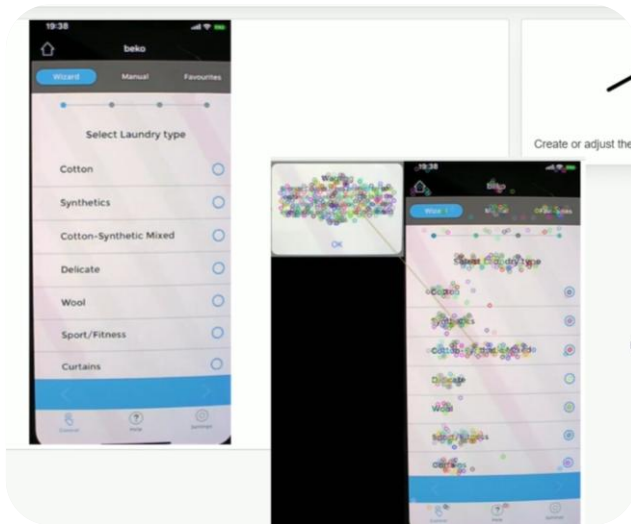
DXOMARK

Visteon

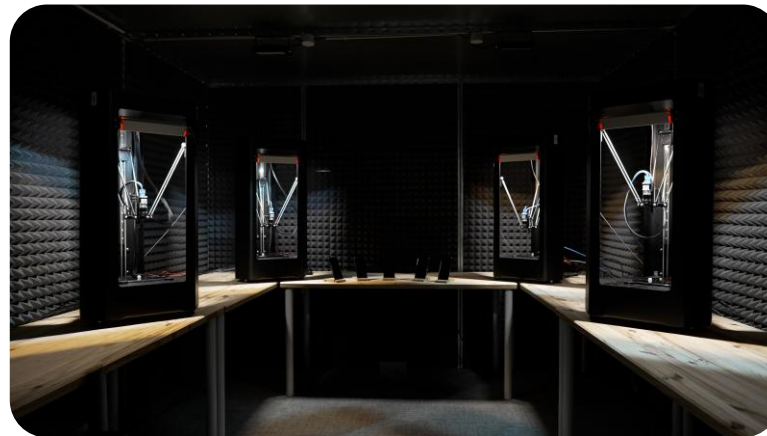
CUJOAI

Use-cases

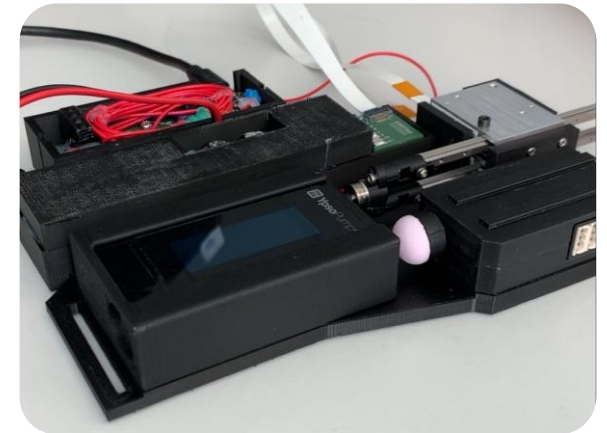
User Interface & Experience



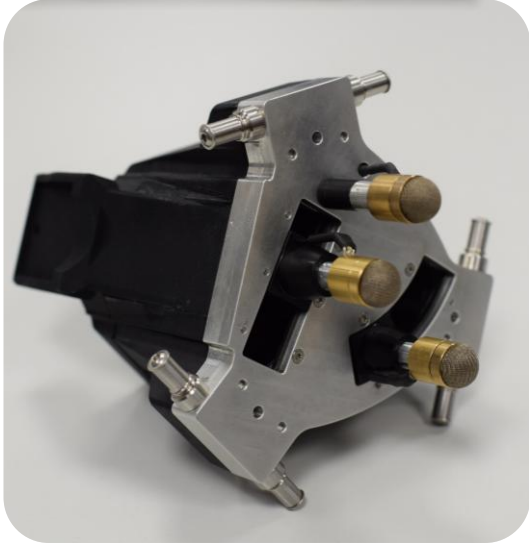
Device benchmarking



Insulin pump & app



Multi-touch Detection

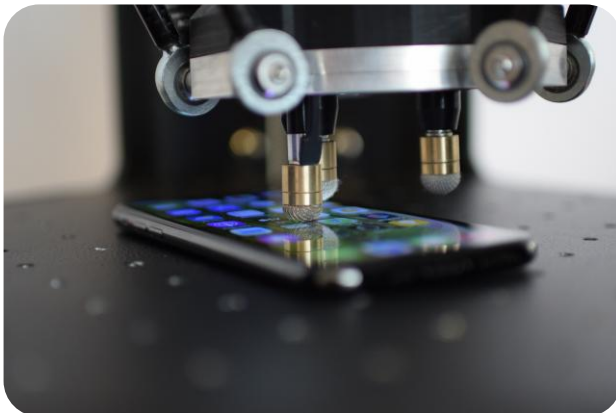


Device Specific Features



Use cases

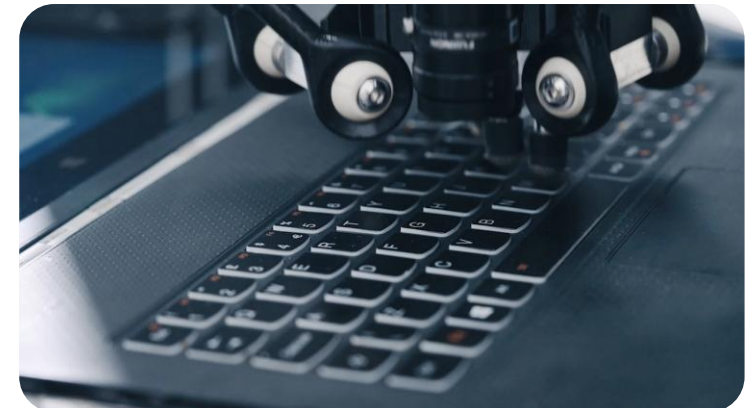
Touch Sensitivity



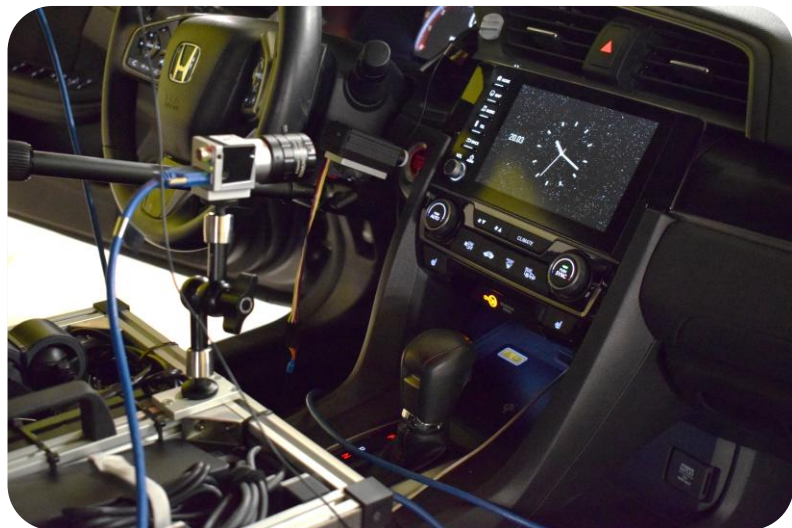
Touch Responsiveness



Interaction with buttons



Derived Solutions



In-Vehicle HMI and driver features testing



Instrument cluster event detection, HVAC response, on/off button pressing, and other functionalities.



ZEBRA Testing Cabinet

Mass Device Testing Solution

Add-ons

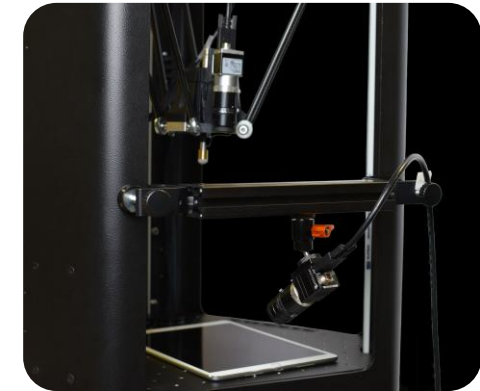
Use-case

Effector addon for lateral pressing

High speed camera addon

**Different sizes & materials
capacitive styluses**

Side button actuators

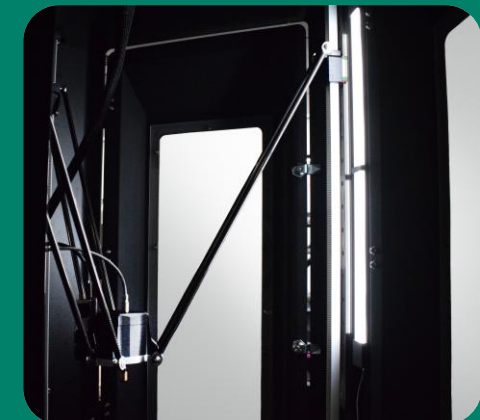


Safety

Safety doors and panels

Internal LED light system

Safety barriers





ERIS

Powered by AI and human operated,
solves price and promotion
discrepancies (from shelf
to checkout), empty shelves and
price tag mistakes.

Real-time monitoring

Verifies pricing accuracy

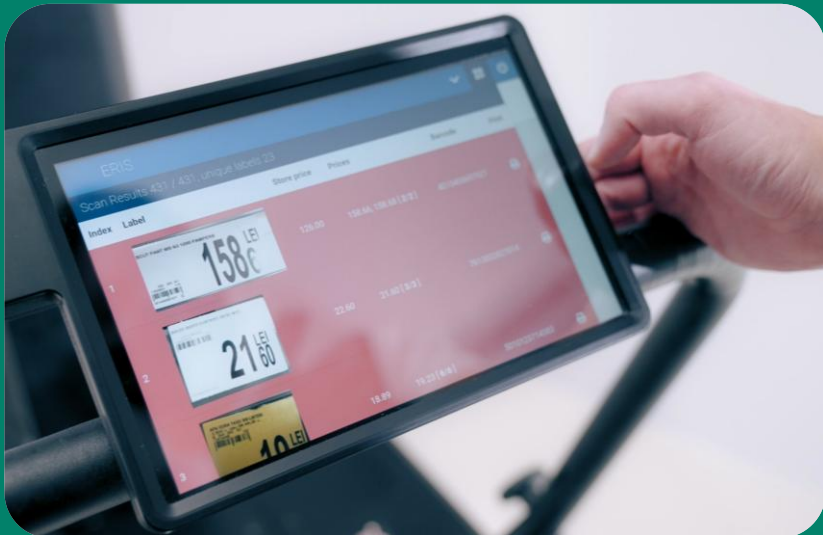
Detects Out-of-Stock situations

Builds a visual map, a panoramic preview

User-friendly interface & easy to provide commands

Price Label Errors

- Products identified based on barcode/ QR Code
- Detect & compare label prices with checkout price
- Paper price label printed & replace on-the-spot
- Electronic shelf labels gateways integration to update prices



Inventory Scanning

On-Shelf-Availability

Detecting **on-shelf availability of products**;

Shelf occupancy percentage is determined;

Stock necessities list is issued;

Alerts sent when a critical percentage of OSA is reached.

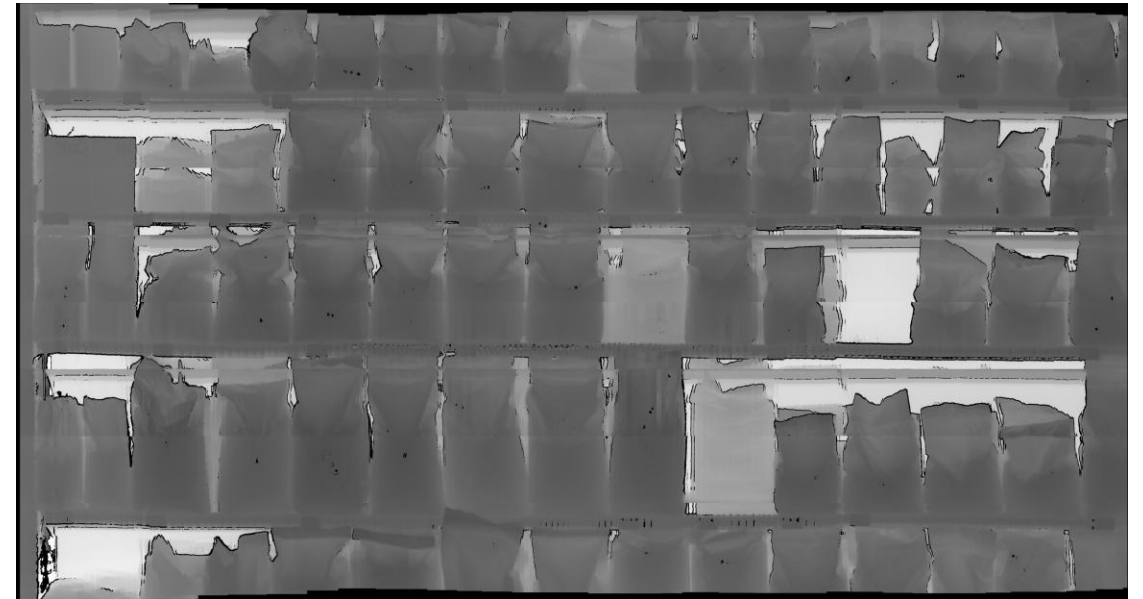
Out-of-Stock

Recognizing **on-shelf product gaps**;

Locate product gaps on generated shelf panorama;

List of in-store stock necessities

Planogram compliance



- Real time reports of shelves situation sent to management teams;
- Used to check against a **reference planogram**

Reduces the label replacement & out-of-stock solving time by showing label & product placement on shelf

Derived Solution

SIDD

Quick to reconfigure, easy to scale, and designed for real-world flexibility, SIDD lets you build the perfect setup to efficiently automate storage and warehouse inventory monitoring and tracking.

Inventory

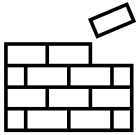
Tracking and Monitoring
Localization



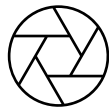
What is SIDD?

SIDD is a modular camera system for product localization based on barcode detection.

From storage and warehouse, to production facilities.



**Easy set-up &
integration with
inventory
database**



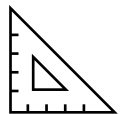
**AI based
detection**



**Adaptable to
product, type,
size &
placement**



**Adaptable to
barcode type &
dimension**



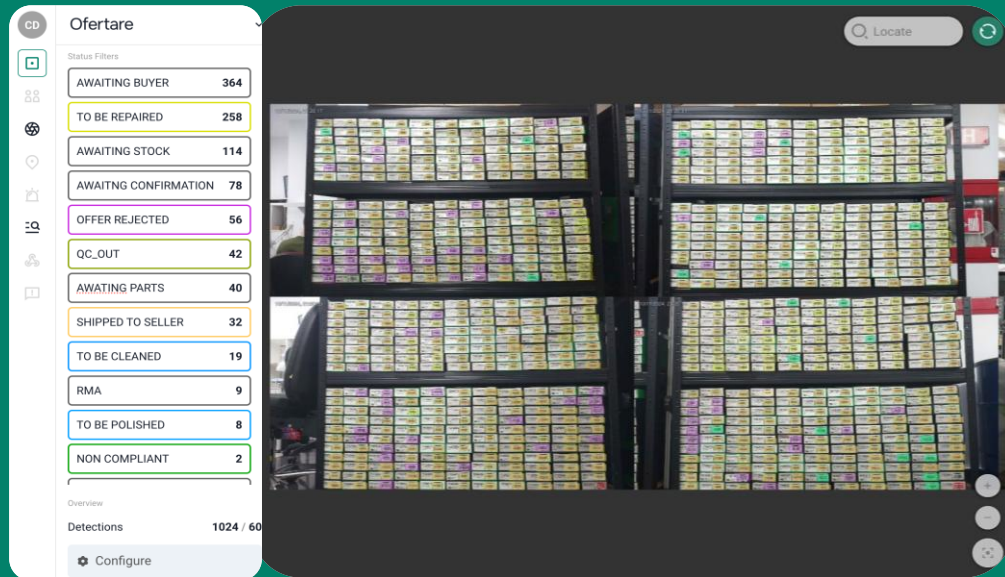
**Adaptable
placement and
scanning
distance**

Capabilities

Stored product localization

Historical data logging & tracing

Products' searching & filtering by code or ID



Large scale product localization

Real-time product visualization

Display & monitoring of product status or parameters

Applicability

Simple inventory systems

Complex/ multiple stage inventory process

Warehouses

Storage

Production facilities

Product/ device repair centers (refurbishment industry)

Pharmaceutical inventory

Fashion/ Retail fulfilment centers





THANK YOU



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