

tracker_

LINE | MACHINE LEVEL TRACK AND TRACE SOLUTION



Track and trace

Tracker is the line | machine level solution for track and trace.

SEA Vision is an internationally recognized top player in the world of serialization and aggregation for which it has been developing reliable solutions for over 10 years.

Tracker is the vision and serialization system installed on in-line packaging machines.

- Extremely reliable and accurate
- Performs operations in real-time
- Ensures end user and the supply chain safety
- Protects brands
- Compliant with GS1 standard



The uniqueness of the serial number and the correctness of the process are always guaranteed with tracker.

Tracker is the hearth of SEA Vision serialization solution.

Tracker manages the **in-line real-time printing** of variable data and codes, **checks** 100% of the products and communicates with yutrace (level 3 SEA Vision software) for the **provisioning and posting** of serials.

Thanks to the strong experience gained, Tracker is able to **manage the serialization** on print and check machines of each OEM **and** manage **the aggregation** on the machines on any type of case packer and palletizer. Tracker is able to monitor every detail of the process.

Tracker manages any type of serialization and aggregation: PoDA, PoDA + or Track and Trace in accordance with the relevant regulators for each market.



Controls

Control every detail of serialization

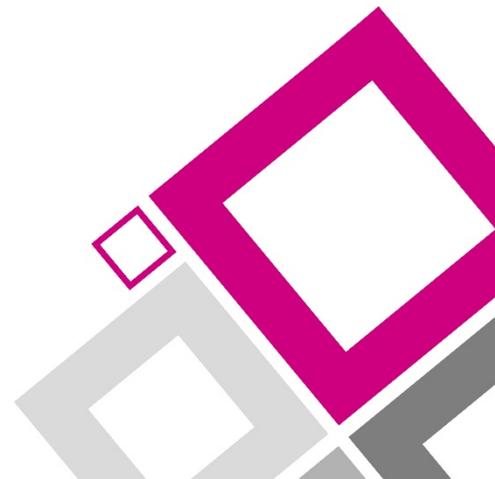
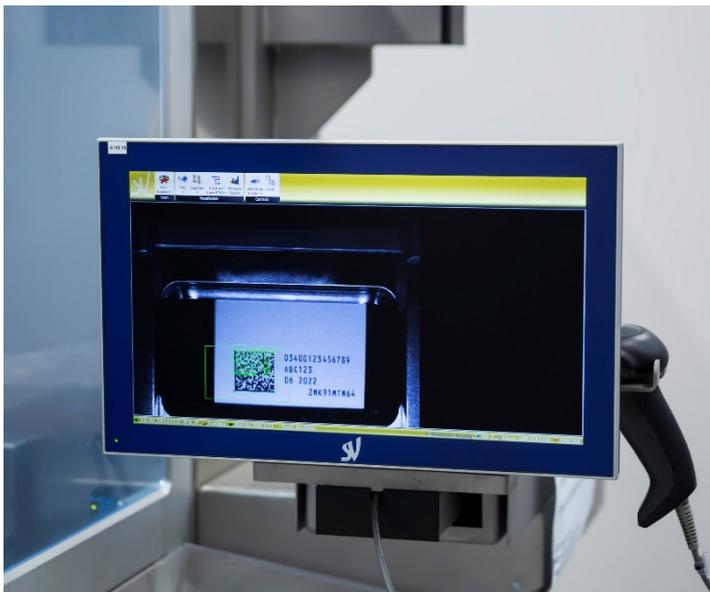
Tracker **manages every detail of serialization and aggregation**, acquires serial numbers from level 3 software and manages industrial printers in real-time for printing variable data and codes on each individual product.

The software learns, recognizes and performs **OCV / OCR checks** on each font. The OCV control allows to check the correctness of variable data previously known, the OCR control allows to check variable data not previously known.

Tracker **reads and verifies every type of code**: it evaluates its correctness, uniqueness and print quality by carrying out the ANSI grading control in real time.

The **logic and status of the serialization and aggregation operations** are shown on the screen so that the operator always has everything under control.

The software is natively integrated into the yudoo software suite, communicates with manual scanners with and without wires, allowing you to perform online reworking operations.



Software

Software features

The system is based on the use of industrial printers, cameras and scanners **to print and check the variable data and codes** on 100% of the products and on the software that transfers the data to be printed **in real time** to the printers and processes the acquired images in real time by performing complex search operations, measures and comparison with reference models and tolerances. Depending on the result, the system **automatically communicates the rejection signal for wrong products** to the machine.

The correct units (cartons, cases and pallets) that pass the inspection are commissioned.

The different Trackers installed on the lines are in constant communication with each other and with the machines, avoiding the advancement of products discarded and reinserted by mistake.

The design method is of the upmost importance for the productivity of the entire system: fast, reliable, tracker uses intelligent algorithms that takes full advantage of the installed hardware in order to severely reduce the elaboration time of the images, guaranteeing a **precise and secure result** at all times.

The **elaboration time** of the calculation is **measurable in milliseconds** and allows tracker to perform controls without effecting the machine speed in any way.

The display **clearly shows the results** of every single control in real time, allowing the operator to have a complete set of production data that is always under control.

The system is **expandable** and additional controls can also be integrated at a later time.



Hardware

Hardware features

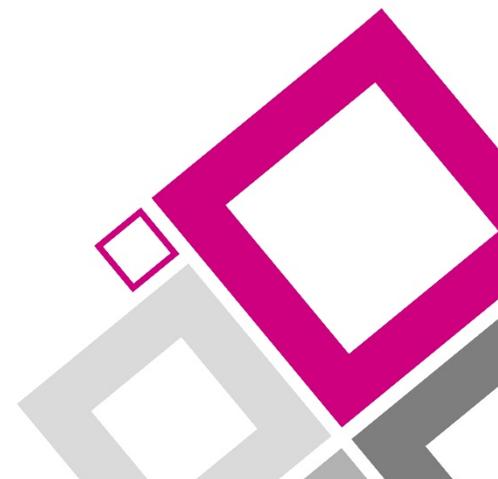
Excellent software requires proper hardware. SEA Vision uses only **latest generation** components, such as **industrial computers** with **multicore, multithreaded** processors that are fully utilized by **proprietary algorithms** and instructions

The optics and the light units are specifically designed and assembled to adapt to the requested controls and to the specifications of the machine they are integrated into, always guaranteeing an optimal result.

The image acquisition is quick and precise with an optimized lighting management.

All utilized displays are touch-screen with an optimized interface that increase stability and interaction.

All serialization systems are equipped with **UPS and spare hard disk** for the safe and correct saving of data and for the correct shutdown of the PC in the event of a power failure.



Machine integration

Perfect machine integration, result of a wide experience.



Italian vignette control on print and check machine



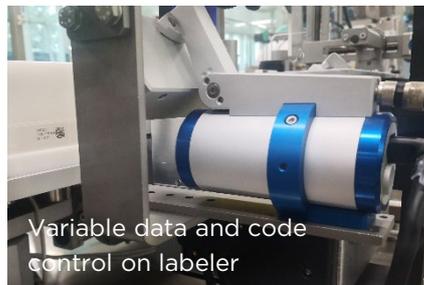
Case code control on case packer - palletizer



Carton layer codes control on case packer



UV code control on case packer



Variable data and code control on labeler



Bundle layer control on bundle machine

A perfectly integrated solution

SEA Vision is an **internationally recognized top player** in the world of serialization. There are **over 1500 serialization lines** in the world that use SEA Vision systems.

Such a **wide and matured experience** guarantees a **correct machine integration**, an **accurate signal exchange** management and integrated automation and **rejection logics**.

Tracker can be integrated on different machines, from those that are completely automated or semi-automated to modules with a low automation level.

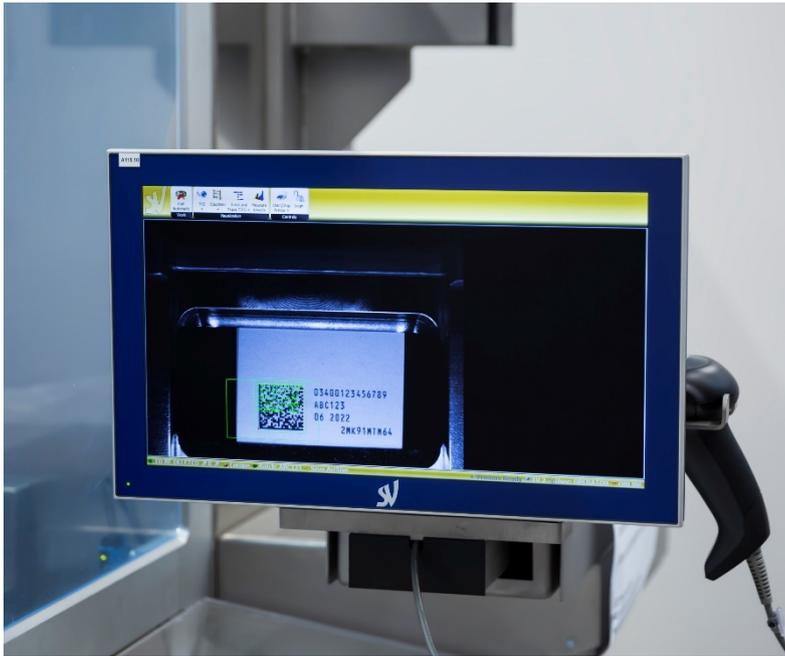
The **graphical oscilloscope** allows the observation of signal patterns and to keep them under control, facilitating the **diagnostical operation**.

The entire process is handled efficiently, from the execution of the control to the rejection of the defective product.

Compliance

Pharma specific

Specifically designed for the **pharmaceutical field**, the system is **entirely compliant** to all industry regulations. User access is regulated in accordance with the FDA regulation 21 CFR part 11. With Active Directory, only authenticated and authorized users can log in. All events are registered in an audit trail file. The system has features that ensure data integrity. Software development is compliant with the Gamp 5 regulation.



The optimized touch display makes for a simple and intuitive use.

yudoo_

Native integration with SEA Vision systems

Tracker is a solution that natively integrates with trackability systems and with Yudoo, the 4.0 software suite for the centralized production management.





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