

100% Inline Inspection for Tires

With the AIT DOT Code Reader, you ensure that every tire carries the required DOT code correctly, completely, legibly, and traceably. At the same time, the system checks whether the marking matches the production and order data. Optionally, the rim can also be inspected for damage within the same process.

With *trevista*® technology, the entire tire is captured without rotation in under six seconds. All lettering and characters are displayed with high contrast, enabling reliable evaluation using deep learning algorithms. In addition to the DOT code, other markings and content can also be inspected reliably as part of the process.

The solution analyzes the structure of the Tire Identification Number (TIN), including plant code, size code, manufacturer identification, and production date. In addition, character legibility is assessed according to defined plant standards, for example with regard to character height, character depth, and contrast.

Furthermore, an automatic assignment to production orders and SAP data is carried out. This checks whether the TIN components match the corresponding order and production information. The conformity of the marking is also verified, for example whether impermissible characters are present in the date field.

In addition to marking inspection, logistical requirements can be taken into account. This includes, for example, compliance with customer-specific age limits such as FIFO strategies or maximum storage times based on production week.

All inspection results are automatically documented. This allows detailed statistics and inspection reports to be generated per batch or shift, enabling complete traceability throughout the entire production process.

The AIT DOT Code Reader can optionally be extended with the [AIT Rim Inspection](#). This allows the rim to be additionally inspected for surface damage or safety-relevant defects within the same system. By combining both inspections, tire marking and rim quality can be checked in a single system, with a cycle time of under six seconds.



Technical Highlights & Benefits

100% Inline Inspection	■ Reliable inspection of all tire types and sizes directly within the production process
High Process Stability	■ Consistent inspection results at maximum speed ■ Cycle time under 6 seconds
Expandable	■ Can be extended with AI, optical measurement & traceability concepts
trevista® Quality Control	■ Evaluation of topographical defects & perfect image quality
Surface Inspection	■ Additional detection of damage on the rim ■ Even the smallest safety-relevant defects are detected