

With the **AIT OCR Inspector**, we offer two different technologies for reading (OCR) and verifying (OCV) single and multi-line character strings, which can be easily refitted to existing systems. This allows both easily readable and very difficult fonts to be checked.



Use

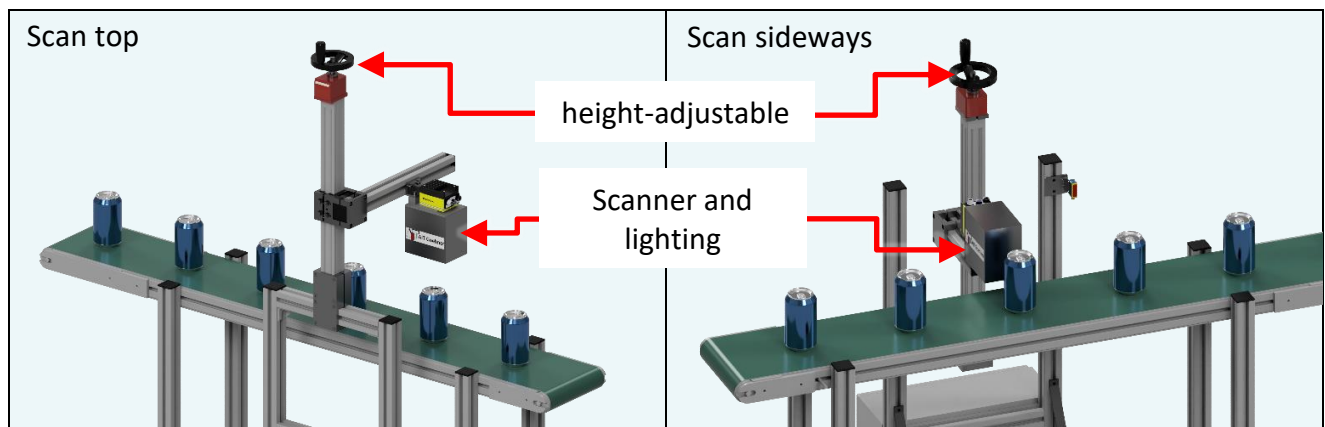
A practical example is reading the best-before date (BBD), a decisive criterion when choosing a product. Often the best-before date is printed quickly and of poor quality, but it is important that it is still legible to the human eye. It is therefore essential that packaging with faulty labelling is sorted out.

And it is also enormously important when marking components that, for example, the type number or batch number, whether pinned, embossed or lasered, is clearly legible. This way, production is not slowed down, the parts can be tracked and, under certain circumstances, expensive recalls can be avoided.

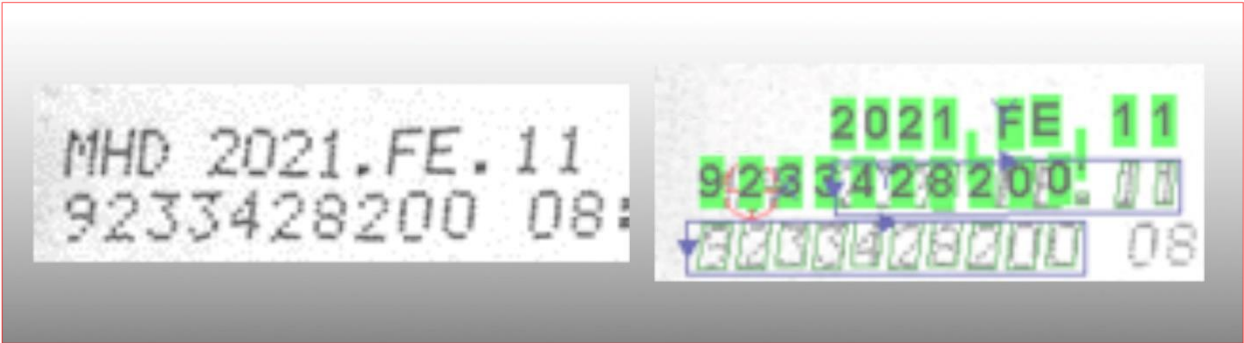
System structure

AIT OCR Workframe - Set up. Switch on. Teach in. Works!

With the AIT OCR Workframe, both technologies can be easily and quickly fitted to an existing system. The workframe is a self-sufficient system that enables identification from above as well as from the side with format adjustment. The system can be adapted to specific products if required.



AIT OCR classic technology



- ✓ Printed codes with medium to very good quality
- ✓ On a uniform background

AIT OCR deep learning technology

For OCR deep learning based on artificial intelligence (AI), a spectrum of about 50 different images (characters, print types) is taught. No parameters need to be specified for this.



- ✓ Difficult characters
- ✓ Reflective surfaces
- ✓ Weakly printed
- ✓ Wavy printed
- ✓ Rotationally independent
- ✓ If it is not known what is coming
- ✓ If it is not consistent, comparable to human reading

Advantages

- ✓ Reading and verifying single and multi-line strings
- ✓ With OCR deep learning additionally:
 - also difficult and weakly or wavily printed fonts
 - also on reflective and round surfaces
 - independent of rotational position
 - for unknown and not constant sequence
- ✓ Quick and easy to refit with the OCR Workframe:
 - Self-sufficient, format-adjustable and product-specific adaptable