

Automation in e-Prescription Processes

The digitalization of healthcare requires secure, fast, and unambiguous identification of medications. Especially in the context of e-prescriptions, it is crucial to reliably match medications to the correct orders and eliminate sources of error 100%.

The **MedicationScan from AIT** enables fully automated capture of DataMatrix codes (DMC) and barcodes on packaging, even at high speeds and while in motion. Thanks to high-speed code recognition and omnidirectional scanning across up to six sides, all relevant information is reliably read regardless of position and orientation.

The captured data is processed in real time and passed directly to the higher-level control system via a defined interface. This ensures a clear assignment of each medication to the corresponding e-prescription or order, thereby ruling out mix-ups.

In addition, the system enables automatic packaging verification, in which the provided packaging is checked against the order, as well as an integrated counting function that records item quantities during the scanning process. The result is a continuous, transparent, and controlled process.

Companies benefit from significantly increased process reliability, as manual interventions and the associated errors are eliminated. At the same time, the high degree of automation ensures maximum throughput at reduced operating costs. The solution can be integrated into existing systems and flexibly adapted to different requirements.



Technical Highlights & Benefits

High-Speed Code Capture

- Reliable reading of DMC and barcodes during ongoing processes

Automatic Multi-Code Recognition

- For high throughput rates in automated systems
- Simultaneous reading of multiple codes on one package
- High read rates even on difficult surfaces

Seamless System Integration

- Direct communication with PLCs and higher-level systems
- Integration into existing automation environments

Omnidirectional 6-Side Scan

- Complete capture of all packaging sides
- Reliable identification regardless of position & orientation

Unambiguous e-Prescription Assignment

- Automatic linking of prescription & order
- Ensuring correct output & further processing

Packaging Verification & Quantity Detection

- Matching of packaging & order to prevent errors
- Automatic counting for inventory & process control