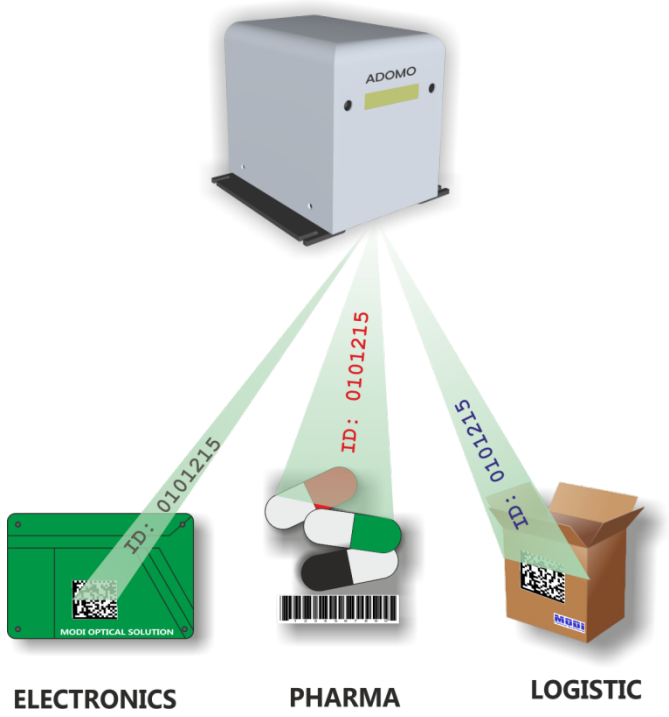
AdoDat code reading system

In the past, it has been necessary to know where the codes are located to be able to read them using a classical scanner or a camera. In the event that the **position changed** or several codes in **different positions** had to be read, it was necessary to mechanically reposition the reading system, install several systems, work with line scan cameras, scanner showers or utilise **high-resolution camera technology**.



Using mirror deflection technology, the ***ADOMO technology*** enables you to read codes on **large surfaces using** a scanner. ADOMO (Advanced Optical Modulation) is a mirror deflection system that is capable of processing images, finding codes and reliably reading them on larger surfaces **at high speeds and with** an **extremely high resolution**.

Technical details:

Code types:

Int. 2/5
Code 39
Code 128
UPC/EAN
4-state
Postnet
Planet
RSS
Code 93
Codebar
PDF 417
Data Matrix
QR Code

Speed:

Up to 20 codes / second

Reading range:

The traversing range depends on the distance between the system and the object to be read.

For a distance of 500 mm, it corresponds to a surface of approx. 450 x 450 mm.

For greater distances, the range increases correspondingly.

Example applications :

Traceability:

Reading codes on several printed circuit boards in large workpiece holders

Reading codes on very large printed circuit boards

Reading codes on SMD component reels / cartons in incoming goods departments

Track & Trace:

Reading codes on pharmaceutical products (in production and logistics during processing)

Reading codes on packaging units / cartons at manual packaging stations in goods issuing departments

logistics:

on cartons and containers with large surfaces

Heavy industry:

Reading codes on pipes and metal sheets for tracking materials along the entire manufacturing process

Functional principle:

Here, the image captured by the camera system or the ID reader is deflected by means of a **2-axis mirror**. It captures small excerpts of the entire surface with the full resolution of the camera. Hence, a large surface is split into numerous individual high-resolution images at high speed, also permitting the recognition and reading of even the **smallest codes (1D and 2D**) on this surface.

This procedure is very frequently used for **tracing** products (traceability) within the automobile industry. However, **Track & Trace** solutions for the pharmaceuticals industry and for tracking parcels and packages for logistics can also be simply and reliably implemented using this technology.

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