Reliable, contactless, and fast access with Opticon's M-11 presentation scanner

OPTICON
We scan, connect and communicate

Adon Development

Introduction

Adon Development GmbH develops scalable access control systems for businesses, gastronomy and events. Opticon and Adon have been working together for many years on professional scanning solutions in the field of access control.

The Situation

For the project at the ice rink in Grefrath, Germany, Adon constructed a rotation lock for admission control in a modern design and were looking for a scanner that could quickly read and decode all common barcodes from different surfaces and media.

The T6 rotation lock has been developed as a component of a complex access control system. It has also been developed for stationary and mobile use and installed at the entrance of the ice rink.

The T6 consists of a motor-operated drive unit with locking arms, a terminal head with readers for the media tickets, cards, smartphones and much more. The terminal and drive are separated by a light ring. The light ring signals the status of the lock and may display different colors.

To ensure fast, secure and convenient access control, Adon was looking for a high-performance scanning module that could be easily integrated into the existing infrastructure.

The Solution

Adon Development chose to implement the M-11 scanner of Opticon, which was built into the terminal. Thanks to its omni-directional reading feature and fast scan engine, the presentation scanner reads 2D-barcodes and QR-codes quickly and reliably from almost any medium. It also reads from difficult angles, barcodes of lesser quality and enables the use of tickets of different sizes and smartphones.

When there is a valid ticket, the motor turns the locking arms in a forward direction to signal the release to the user. By moving the arms in a forward direction or detection of the movement by an infrared light barrier, the motor support is activated in the access/entry direction. Once access has been granted, the rotating arms lock into the horizontal position with the support of a magnetic brake. The terminals allow up to 40 people per minute to pass. A screen is integrated on top of the terminal, in which messages are displayed in plain text.

„The M-11 scanner is integrated into our T6 rotation lock model. We chose the M-11 scanner from Opticon Sensoren because it has a very good reading performance, a large scanning area and can read different-sized 'print@home' tickets as well as 'mobile phone tickets' in our tests."

Peter Mooshage
Head of Engineering
Adon Development GmbH

Opticon product: M-11

The M-11 is a highly versatile presentation scanner that combines a powerful 2D CMOS imager with a stylish design and omni-directional capabilities. The scanner can be triggered manually or automatically and scans at a speed of up to 120 fps. In addition, it can also be used in modern public transport ticket vending machines, time control, various retail applications. There is also functionality for airline passenger check-in, boarding and many more.

About Opticon

We scan, connect and communicate
Opticon have been developing barcode scanners since 1976. There's a big chance that, inadvertently, you already know us through our products. You see them everywhere, both here and abroad. From the electronic shelf label at your local supermarket to the scanner used at a Covid test facility. From scanners used by large retail chains to the barcode scanner of parking garages. We are one of the world's key players in the automatic identification market.

The highest quality, the best service
For nearly 45 years we belong amongst the front runners in international scanning solutions. Our barcode scanners and display solutions are amongst the best in the world.
After completing your project we are there for you 24/7. With our helpdesk, supporting you with all your questions. With our technical department for quick, professional repairs. Or with our engineers who like to think along with you about new products and integrated solutions. Thanks to our local presence, both technical and commercial, we are never too far away.

This is what we can do for you
Opticon is the right provider for all your intelligent barcode scanning solutions. No matter which business process or market. Do you have any other demands or requirements? We always offer solutions that are tailored to your requirements and enjoy the challenge to think along with you.

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