
Less is more in the Quartiersparkhaus Hürth car park

Car park guidance system only requires three displays for 18 levels and 20 parking zones

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836 rented parking spaces, distributed over 18 levels and 20 parking zones, are managed by the parking guidance system in the Quartiersparkhaus car park in Hürth, near Cologne. A camera-based system from uniserve, which relies on just three Microsyst LED displays in addition to a barrier control system, regulates access and exit control as well as allocation to the respective parking zone.

Camera, barrier, display - that's all a smart car park needs

The new building, which was completed in April 2024, can only be accessed by authorised users. A smart, modern car park system was needed to make it as convenient as possible for them and enable the landlord to manage it efficiently at the same time. The challenge: A limited number of parking spaces meets an x higher number of potential users - control should take place in real time via licence plate recognition. The solution: a camera for licence plate recognition at the entrance and exit, corresponding barriers and just three LED displays. The right software takes care of the rest.

With live control and intuitive parking management

In practice, it works like 'magic': the users, usually commercial tenants from the surrounding commercial buildings, rent a parking space contingent as required - e.g. 50 parking spaces and deposit, for example, 100 possible number plates for employees or their own vehicle fleet, which are allowed to park in the car park. The deposited licence plates are managed by the so-called FreeFlow system and the maximum number of rented parking spaces is released on a daily basis. In our example, this means that only 50 parking spaces may be occupied at any one time for every 100 number plates stored. The car park is divided into a total of 20 virtual parking zones, and tenants are guided to their assigned parking spaces/zones via an LED display.

A dynamic display solution with a total of 3 Microsyst LED displays in line format was implemented for this purpose. They are used - with controlled luminosity for optimal readability without the risk of glare - for licence plate display and parking guidance at the entrance and exit as well as in the multi-storey car park. To be more precise: a welcome display is located

at the entrance, a parking guidance display with zone display provides guidance inside the car park and another at the exit.

Uncomplicated function right from the start

The traffic light solution originally planned by the client for entry control was quickly discarded after uniserve presented the FreeFlow solution. The user-friendly implementation with display guidance was already convincing in the start-up phase thanks to its uncomplicated function. While construction continues in the Hürth district, the car park's capacity utilisation is also increasing. This does not detract from the performance of the car park guidance system: it can - and will - perform even when the 836 parking spaces are fully utilised. Simple and intuitive, and even then, with just three displays.

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About microSYST Systemelectronic GmbH

Founded in 1985, the company based in Weiden i. d. Opf. has been developing, manufacturing and selling LED display systems for nearly 40 years. The comprehensive know-how in LED technology goes back to the early in-house developments. This pronounced pioneering spirit is still deeply rooted in the company today. With future-oriented thinking and environmental awareness, microSYST will continue to dedicate itself to LED technology in the future under the following principles

- *Know-how right from the start*
- *Individual development and production*
- *Adapted systems with unique optics*
- *Regionally sustainable and efficient*