

## GANZ ARTIFICIAL INTELLIGENCE

### A good buy for shopping

#### client\_

Conad Soc. Coop. Capannoli (PI)

#### application\_

Control and counting of departmental presences in the point of sale

#### installer\_

Domus Srl

*Integrate your video surveillance system with GANZ AI BOX for safe shopping.*

#### Client's request

Following the restrictions that came into force at the beginning of the pandemic and which were useful in containing the contagions, it became necessary to reorganize the spaces inside the supermarkets, respecting social distancing and guaranteeing customers a pleasant shopping experience in total safety.

To meet this need, the client sought and requested the adoption of a technology with low economic impact, usable in a short time and characterized by high precision, able to monitor the number of people present in a given department, without revolutionizing the existing video surveillance system.

#### Technical Solution

In order to limit and count the number of people in a specific area of the store, it was decided to install an artificial intelligence device: ZN-AIBOX8.

The GANZ AI BOX, characterized by exceptional speed and performance, was connected to the installed IP cameras via RTSP streaming and allowed the pre-existing monitoring system to perform a professional and accurate analysis of the image, without having to replace either camera positions or recording system.

Once the desired criteria and alarm thresholds were set, modifiable and definable according to the areas' sizes, a precise and real-time control of the number of people present in the various departments was obtained, guaranteeing a density in line with the norms on social distancing. For each camera, the necessary zones of permanence were set and the specific licenses were enabled.

The architecture of the realized project is based on the integration of the pre-existing video surveillance system and home automation with AI GANZ technology, thanks to the use of reports in JSON format.

#### Advantages obtained

The simple configuration and the rapid commissioning of the system without the need for calibration, have allowed the Conad store in Capannoli, in the province of Pisa, to continue to operate, guaranteeing security and protection to customers and employees.

The simple interface and the immediacy of programming GANZ AI algorithms, led to a rapid integration and the achievement of the required objectives.

The solution used, implemented on the existing video surveillance system, did not require any changes to the security system, ensuring maximum reliability and low implementation costs.

Thanks also to the GANZ AI BOX solution, the client has shown the utmost attention in strengthening the measures to protect the health of its employees and consumers.

*„The need to contain contagions at the beginning of the pandemic forced us to face new requirements and sales services. We convened Domus Srl to find a solution that could ensure customers and employees to operate in a safe environment, where the rules against gathering could be respected, even in the absence of operators employed to regulate and verify the rules themselves. Our request was based on the assumption that the implementation would be as little invasive as possible at a structural level, that the costs would be contained and that the realization would be implemented in a short time. The answer that Domus Srl has provided to our needs has been more than satisfactory. In a very short time, the commission requested was completed without structural changes, as the GANZ AI BOX technology used makes use of the existing video surveillance system and, consequently, the costs were also contained. This has allowed us to give an immediate response to the new sales needs, ensuring customers to shop safely, feeling at ease in a place where health protection is a primary value.*

*The project was then reproduced also inside the other supermarket of our property, located in Casciana Terme Lari (PI) and was reported as a model to all colleagues who wanted our opinion about it“.*

Laura Paperini - President Il Girasole S.r.l. - Conad of Capannoli and Lari (PI)

