Artificial Vision solution for CS-2200 Series PC scales

Self-service format
(table-top)*

This self-service* PC scale solution helps, by means of a camera and an artificial vision system, to recognise the product placed on the plate, contributing significantly to the reduction of shrinkage of fruit and vegetables, and improving the customer experience in the supermarket.

The solution consists of:

- CS-2200 Series self-service* PC scale with artificial vision kit.

- gFresh system to support the identification of the product placed on the scale: when a product is placed on the plate, the system suggests 1 or several candidates depending on the certainty of detection, with a maximum of 8 candidates displayed. If the system does not detect any relevant product, it will display the conventional self-service screen.

Note: the artificial vision solution is valid for the CS-2200 series table-top self-service scales, it is not applicable for totem self-service scales.

Requirements for the correct functioning of the solution

1) Availability of information on the catalogue of products to be detected prior to start the implementation.

2) Adequate and constant lighting in the area where the gFresh scales are located.

3) Use of CS-2200 series self-service PC scales equipped with the artificial vision kit.

4) Ensuring internet connection windows on the scales for learning, monitoring and updating of the system (minimum bandwidth required: 10 Mb/s).
Although internet connection via wifi is possible, Dibal always recommends a wired connection.

5) Use of transparent or translucent bags without printing for the products to be weighed.

Options for the Artificial Vision solution in CS-2200

a) Generic mode (recommended): standard model that includes the most common fruits and vegetables. It is quicker to set up.

b) Ad-hoc mode: specific development for the client, with training of the system from scratch with their particular products; requires a longer implementation time.

Model	Description	Ref.
CS-2200 Series table-top self-service PC scale for artificial vision	Scale equipped with the artificial vision kit.	...8... (*)

Option	Description	Ref.
Wi-Fi	Wi-Fi for the artificial vision kit.	Consult

(*) The references of PC scales with artificial vision are obtained by replacing the character of the sixth position of the reference of the standard self-service scale by the digit indicated.

Phases and licences

The artificial vision solution also requires the following phases and annual licences:

Phase 1: Pilot

Installation and configuration of the scales with the kit + image capture and labelling + initial training + initial validation + activation + optimisation of the model + pilot finalisation.

Option	Requisitos	Ref.
Generic model	Minimum of 2 stores and 6 scales.	Consult
Ad-hoc model	Minimum of 4 stores and 12 scales.	Consult

Phase 2: Deployment and continuous improvement

Training of new products + improvement of the results obtained + implementation of new functionalities.

Option	Annual licences (SaaS)	Ref.
Generic model	Minimum of 50.	Consult
Ad-hoc model	Minimum of 200.	Consult
Generic and Ad-hoc models	Extra licence per each additional scale.	Consult