FOTOTRAINER TECHNOLOGY

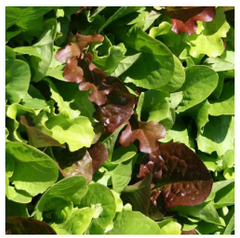
DIRECT TO THE HEART OF QUALITY

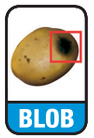
ray Tec VISION

RAYFLY

ver.03/**2013**

The Fototrainer technology is a combination of 4 analyses that together make the system very efficient in contaminant detection.





Chlorophyll
The system analyzes the presence of chlorophyll to distinguish between organic green products (containing chlorophyll, e.g. leaves) and products not containing chlorophyll (e.g. green plastic or insects).

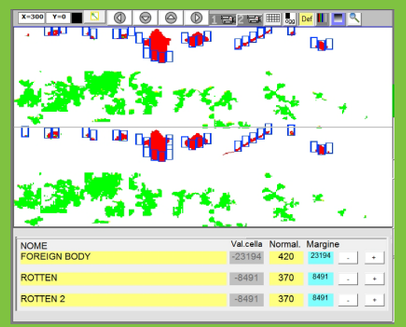
Infrared
The system analyses multiple infrared reflections and transmissions to distinguish between the morphological structure of products and foreign material. This system allows to distinguish between the good and the rotten products.

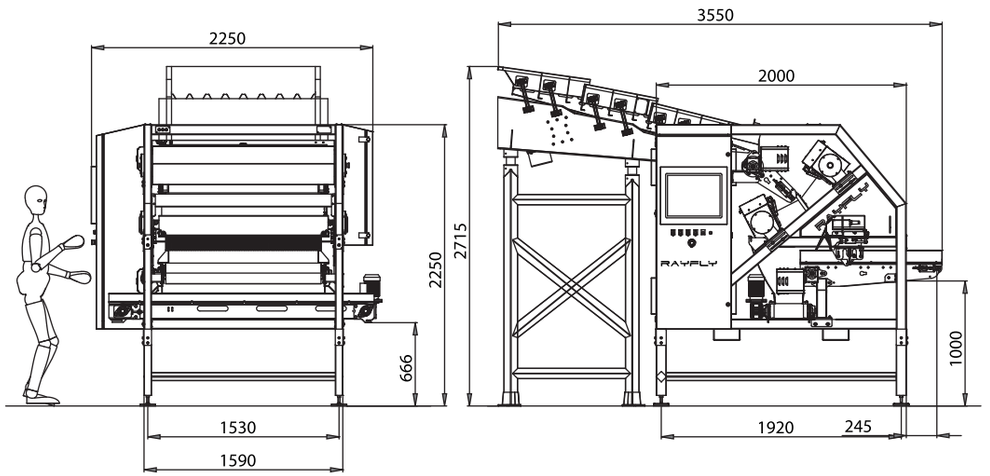
Blob
A BLOB is a group of pixels in contact with each other that are identified as defective by the sorting recipe. The system allows to associate a "weight" to all the different kinds of defects that the sorting recipe can discriminate. Weight is associated with all the pixels that are identified as defective on the grabbed image. The system rejects a BLOB only if the BLOB weight (sum of the weights of all the adjacent defective pixels) is higher than a set value.

Snap
The thresholds are adjustable directly from the control panel with the Snap system.
Directly on the photo grabbed by the system it is possible to verify how the system will act on any defect and whether the defect will be rejected.

OPTICAL SORTER FOR UNWASHED LEAFY PRODUCTS. In flight double side inspection to eliminate the contaminants normally present in the primary processing of fresh-cut salad.

RAYFLY is a sensor sorter, double side view, Chlorophyll and Infrared analysis system specifically designed to sort leafy vegetables. This new machine is dedicated to the pre-selection of salad after the reception of product and before washing operations. With this new development, Raytec has responded to the growing demand for maintaining clean wash water and preventing contaminants entering the process line.





TECHNICAL FEATURES

Sorting channels	50
Vision area width (**L**)	1250mm (50")
Pixel Dimension	4x4mm (0.16"x0.16")
Control and diagnostic device	Interactive LCD Touch-Screen color digital panel onboard
Rejection channel width	25mm (1")
Rejection type	Driven by fingers (Mod. M) / Air jets (Mod. J)
External and/or remote connection	Ethernet and/or modem
Vision glass cleaning device	Integrated and pneumatically controlled
Conveyor speed	120 m/min [393 ft/min]
Power supply and consumption	
Power supply	3-Ph + Gnd
Voltage	400/480 V
Frequency	50/60 Hz
Installed power	2.5 kW
Applied air treatment (pneumatic circuit)	Dehumidification – Filtration – Lubrication
Lubricating system (pneumatic circuit)	Food grade and pharmaceutical compatible
Working pressure (pneumatic circuit)	4÷6 bar [58÷87 psi]
Tipical consumption (pneumatic circuit)	120 Nl/min [4.2 cft/min] (Mod. M)* /1200 Nl/min [42 cft/min] (Mod. J)*
Max. air flow rate (pneumatic circuit)	1000 Nl/min [35 cft/min] (Mod. M) /3600 Nl/min [127 cft/min] (Mod. J)
Water treatment (water circuit)	Filtration
Working pressure (water circuit)	1÷4 bar [14÷58 psi]
Water consumption (water circuit)	Lower than 0.1 m3/h [26.4 US gal/h]

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