

The logo for Sormatech features three small circles in green, yellow, and red above a thin green wave line.

# Sormatech

# TECHNOLOGIES FOR QUALITY SORTING



Sorma Group

## *Solutions for leading companies*

*Sormatech, brand of Sorma Group, is specialized into design and manufacture technologies for processing, sorting, quality selection and packing of over 35 different types of fresh fruit and vegetables - has improved the quality of fruit and vegetable processing in over 40 countries in the world, supplying technology and services based on innovation and with the highest standards of reliability and profitability for all its clients coming from the benefits obtained from investments in Sormatech technologies.*

*The market of fresh fruit is one of the sectors where Sormatech technologies gave high results in terms of efficiency and reliability of quality and processing sorting as a whole, achieving year after year tangible evolutions in all the processing steps, from dumping to final packing.*

*Sormatech technologies for fresh fruit processing (especially those for quality sorting) nowadays achieve an accurate and delicate sorting of size, color, external and internal defects in order to eliminate soft/overripe fruits which are not suitable anymore to be exported.*

*In particular, Hyper Vision, patented systems to sort internal and external quality of fruits, entirely developed by Sormatech in its R&D center of Valencia, resulted the more performing technology on the market, guaranteeing the elimination of almost 100% of defects at very high efficiency levels. These results were obtained thanks to continuous technologies improvement, coming from the ongoing dialogue between Sormatech and the market, aiming at developing projects replying to concrete needs.*

*Sormatech every day job is to help its clients to improve processing and packing for fruit and vegetables. Sormatech has a 360° overview of technologies; it can supply hardware & software, design, mechanical manufacturing to production of automation components; the target is always to reply with concrete improvement results.*

*Sormatech technologies for fruit processing reach very high efficiency and productivity levels - on the production side - and guarantee a consistent quality of fruit & vegetable over time - on the offer side. That's how client's trust is obtained in the long run, therefore increasing consumption.*

*What is more, sorting process standardization made it possible for fruit & vegetable processing plants to plan export strategies, with full guarantee on the quality of products when they reach international markets after some days of travel.*

*Many fruit producers in the world chose Sormatech technologies for their processing operations: they got impressive results in terms of profitability and sorting quality.*

*For this reason, they are satisfied with their choice and this drives Sormatech towards a continuous innovation, a feature that differentiates this company born in Spain and grown in the world.*

# HYPER VISION

Hyper Vision platform is state of the art lighting solution, based on multiple wavelengths, tuned stroboscopic led system (Visible, Infrared and Near Infrared). The system is based on 3690 led for each lane of the grader, in a dome refraction system, for an optimal fruits illumination.



Sormatech has take particular care to the light diffusion along the whole fruits route through the optic, guarantee the best grading performance in the market.



The imaging system of Hyper Vision is based on 9 Cameras for each lane of the grader, 3 Color cam + 6 NIR cam, Ultra-HD digital cameras, with superior optics.

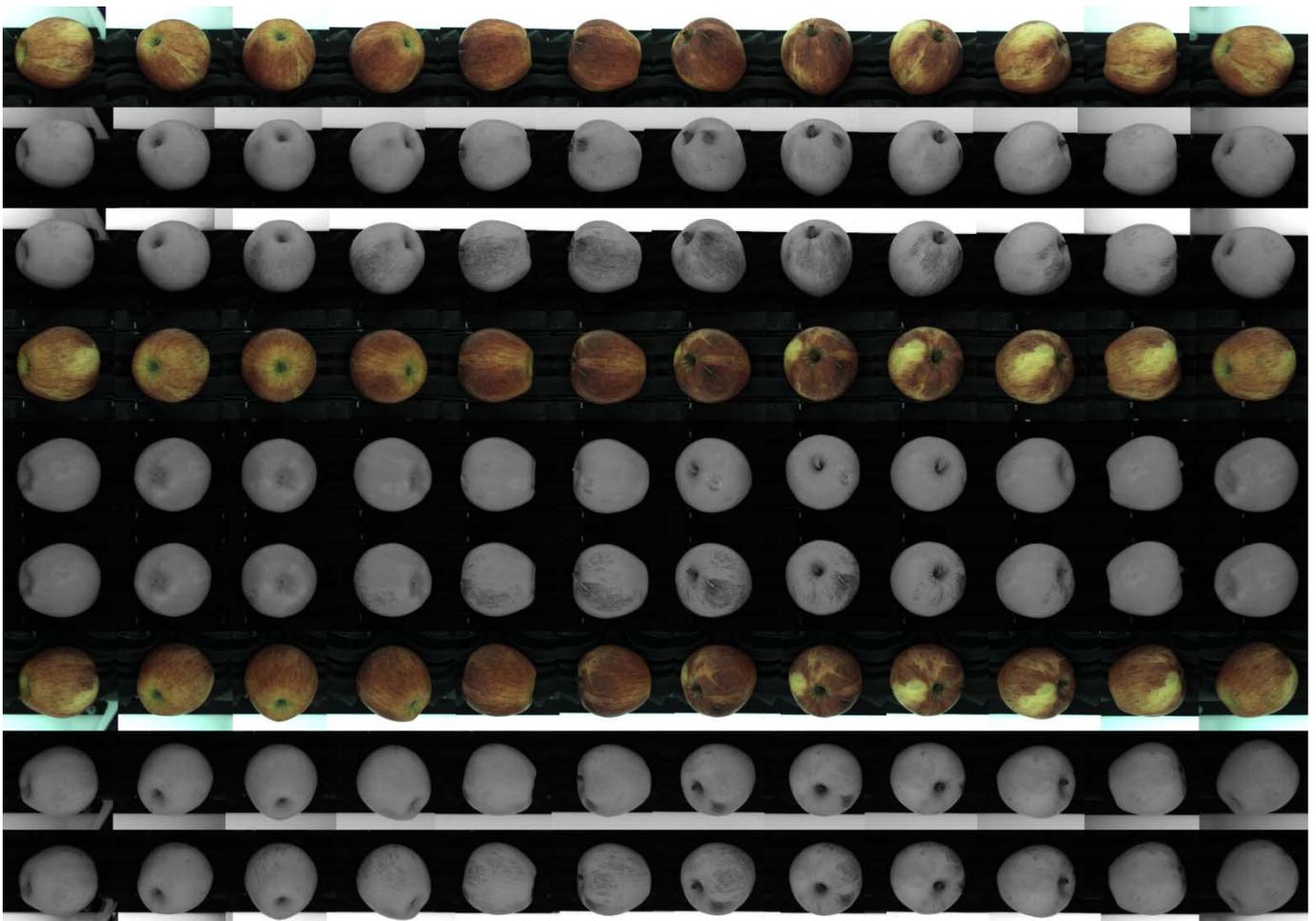


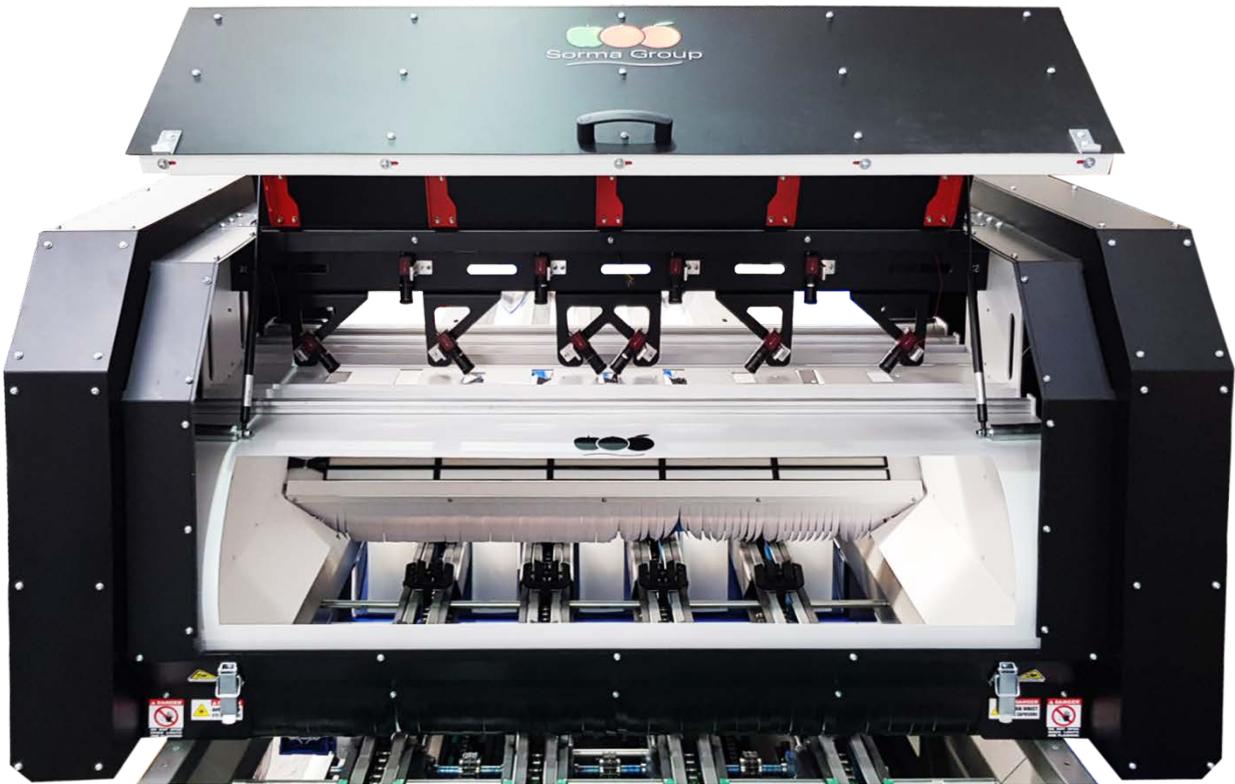
The platform generates hundreds of images for each piece of fruit at 15 Fruits/second.

With the unique Sormatech Hyper-Map system (up to 20 parallel maps/program) each image can be interpolated to target specific defect and processed independently by the system against the original acquire.

This feature means up to 2160 images processed for each piece of fruit that pass through the system.

The result is an incredible view of the 360 degrees surface of the fruit in all the combination of wavelengths at very high resolution, where the smallest imperfection can be contrasted, detected and classified.

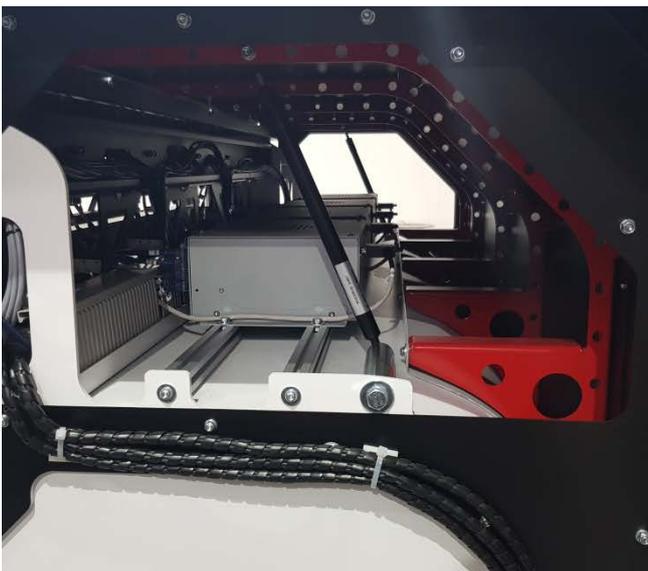




Hyper Vision processing power is guaranteed by industrial pc, mounted inside the Vision platform with 1 pc dedicated for each lane of the grader.

Each pc is powered by Intel I9 processor with 32 GB of DDR4 DRAM 2666 Mhz memory, running with Linux 64 Bit operating system.

## PCS PROCESSOR™



The benefits of Linux operating system against Microsoft Windows are:

- **SECURE**

Linux is virus free and is so secure that does not require the use of Anti-Virus programs

- **FASTER**

That is the reason most of the servers across the world prefer to run on Linux than on a Windows hosting environment.

- **RELIABLE**

Linux helps your system run smooth for a longer period. Windows, as we know it, becomes sluggish day after day.

- **PRIVACY**

Linux distributions do not collect data.

