



Visys „Smart Laser Sorter“ combines self Learning „Apollys“ technology with structure, color and shape detection



June, 2010 - Hasselt, Belgium A new „Smart Laser Sorter“ system uses state-of-the-art Apollys™ Neural Network Technology to shift the sorting paradigm to „self-learning“. This innovation is the starting point of the 4th generation sensor-based sorting market.

Optical Sorters (mostly associated with CMOS or CCD sensors and a light bulb illumination source) are used in the food processing industry to ensure no contaminants get included in packaged food products. Most of these **Optical Sorters** are limited in functionality as they can only distinguish on one characteristic at a time, being colour, structure or shape. The general understanding amongst processors is that **Optical Sorters** are mostly used for heavy discolorations, whilst **Laser Sorters** (a niche high-end optical sorter) are more performing on foreign matter. New technological developments such as added shape algorithms have increased the performance of Optical sorters, whilst modern Uncompromised Laser Sorters comprise added colour sorting functionality.

5 years ago Visys revolutionised the sorting industry with the world première of the first fully digital Laser Sorters „Lynx“ and „Spyder“ with uncompromised colour, structure and shape detection on a proprietary infeed chute **Chycane™**. This infeed chute, which puts the product perfectly in front of the optics and air ejection system, eliminates false rejects to the minimum. This was and still is the problem with conventional free-fall laser sorters.

This Visys innovation is now generally accepted as THE quantum step forward to improved defect efficiency and lower false reject, revolutionising the global sorting industry. Visys is now the fastest growing global sorting company, thanks to its visionary customers.

Building on this legacy, Visys now takes sorting to the next level by introducing proprietary self-learning **Apollys™**, technology to enable advanced shape recognition, leading

to the **world's first** Smart Optical Laser Sorter. The proprietary Apollys™ engine combines signals from 2 detection points, one on-chute (LED-shape) and one in-air (lasers-Structure). The software enables self-learning functionality, which leaves manual calibration no longer necessary. The Python can be equipped with a number of software algorithms and optical features adjusted to every individual application and individual customer need. During the launch period of this technology the main applications are treenuts, peanuts, peas, french beans and berries.

Check out what Visys' new technology could mean for your business and contact our application engineers today.

About Visys sorting systems

Visys NV, www.visyssorting.com, the visionary sorting company, is the leading provider of high-end digital sensor-based sorters to the global processing industry. Our digital sorters detect and remove 100% digital foreign bodies as well as defective, undesirable or contaminated product from good product streams on differences in colour, biostructure, shape or density. Our world-class multiple award-winning digital sorting technologies are highly unique and novel, based on Laser optics, Near-infrared (NIR), Color sensors (RGB, VIS, CMYK), Metal sensors and X-ray or any combination thereof. Visys is the global pioneer in digital sorting technology and was responsible for world's first digital laser sorters (Spyder and Lynx) and more recently the 4th generation of self-learning optical sorters (Python, Cayman...).

Thanks to our visionary global clients, Visys has become the fastest growing global sorting company and was awarded in 2007 the „Tech-art price as most innovative Belgian company“ and subsequently in 2008 „most innovative company“ by the Chambers of Commerce. In 2009 it became runner up in the Benelux Rising Star competition, the famous technology award for its milestone contribution to science. Thanks to its technology leadership Visys continues to pioneer in the detection of aflatoxin in nuts or seeds whilst redefining the boundaries for Artificial Intelligence and Integrated Quality Systems. Visys continues to lead our innovation trial through our co-shareholdership by regional governments, our elaborate R&D program and collaboration with international knowledge, leading global processors, international research centres and universities.





Digital Optical Sorters

Discover our latest innovations



IELA™

Intelligent ELeCtronics Architecture

DigitalFluo™



Laser Induced Fluorescence



Rubys™

Low breakage for vulnerable products

Chycaneslide™



Perfect slide for low false reject



VirtualDrum™

One digital drum for ALL your products

Toxyn™



State-of-the-art Mycotoxin detection

www.visyssorting.com