

## Follow Me

A quantum leap in the field of quality control systems. This is the goal that Deltamax Automazione is pursuing with the research project *Clever* in the 2018-2020 three-year period

**A** project that right from the start has been carried out with innovative solutions that will set new standards in the field of quality control instruments, a must for modern manufacturing companies facing an increasingly fierce and global market.

Innovation and reliability is a combination that often requires some important compromises: however this is not the case of the systems that Deltamax Automazione will be showcasing at Glasstec, the result of months of work in the lab - but also of intense testing at the premises of customers - and therefore ready for use on production lines.



### Q+

Q+ is a revolutionary scanner which sets a new standard in quality control processes on flat glass. Thanks to a new technology developed in the laboratory at the company's headquarters in Trento, this flagship product in the range of control systems for flat glass aims to increase accuracy in the recognition of defects, in particular those on the glass surface. Technically, Q+ performs with a single unit the same control operations previously carried out by two separate systems, keeping however the same processing speed in order to meet the demand for increasingly shorter production

cycle times. The modular design of the previous versions has been confirmed, allowing the adaptation of the system to different production lines and simplifying future upgrades as well as ease of installation, thanks to the physical separation from the production line. From the viewpoint of quality, Q+ is a solution destined to satisfy the most demanding customers, ensuring greater accuracy in the detection of defects such as scratches and marks, and even identifying defects such as the infamous halos, so frequent in glazings currently available on the market. The system interface remains intuitive and rational, thus combin-

ing technological complexity with an incredible ease of use and interpretation of results.

### Follow Me

The scanner (patent pending) is becoming a loyal ally of production and quality managers, combining quality control results that are objective and configurable for different quality levels with a reduction in the time necessary for controlling the glass panel. A detail of no small importance, given the significant increase in the average size of single glazings. The next step, in order to further optimise process times without sacrificing quality, is the support to the operator in identifying the defects detected by the scanner. Taking into account the configuration of modern production lines and the user's needs, by partnering with GlassUp, an Italian start-up specializing in augmented reality, Deltamax studied an innovative solution, called *Follow Me*, complementing the work of their scanners.

By connecting with the F4 goggles, the scanner can now guide the operator exactly to the defect on the glass, with simple, intuitive controls: what better ally to ensure productivity and safety? Let's not forget that the F4 goggles are certified as personal protective equipment, ensuring the strictest compliance with the current standards, and guaranteeing maximum freedom of action to the operator.

## COMPANY PROFILE

*Deltamax Automazione was established in 1989 as a manufacturer of industrial automation and machine vision systems, gradually increasing its customer base and international coverage over time. This growth experienced a fundamental progress in 2017, when Deltamax Automazione became part of the Delta Informatica group, finding qualified professional figures for the quantum leap required to face new challenges in the field of innovation.*

*With a special focus on the flat glass market, early in 2018 the company began a new research project, called *Clever*, whose goal is the development of high-tech solutions, such as the new scanner Q+, and the innovative project *Follow Me*, both cited in this article, capable of satisfying the needs of the most demanding customers in terms of quality and automation.*



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### Production Analyzer

In line with the Industry 4.0 principles, Deltamax has renewed its Production Analyzer software, today even more packed with features ensuring complete and thorough data analysis. This software can be connected to one or more inspection systems manufactured by Deltamax, allowing the operator to save, on a special device, the data and images acquired in-line and processed by the software, as a result creating a complete archive of paramount importance to understand the performance of production processes and improve their quality. Understanding which are the most frequent defects, their position in the glass, and whether they are repetitive or associated with a particular type of glass or process, are just some of the activities that can be carried out automatically by Production Analyzer, a tool that if used correctly can



become a valuable ally for all production and/or quality managers. The ability to generate tailored reports is the element that allows the user to document the manufacturing process up to the end customer, through certificates which demonstrate the quality level measured in-line.