

Press Release

Viscom with AI Topics and a Wide System Range at NEPCON China 2023

Hanover, Germany, July 04, 2023 – **The local Chinese teams of Viscom AG are in the starting blocks for their participation at NEPCON China 2023 in Shanghai. They will present a wide variety of inspection systems for different requirements and inspection gates. An overarching topic that will be in the spotlight at Viscom is artificial intelligence and its contribution to even more efficient quality control.**

The electronics industry will come together at the Shanghai World Expo Exhibition & Convention Center from July 19 to 21, 2023, and Viscom China will be participating with booth 1J20. Experts will answer individual questions and be available for technical demonstrations. Great interest is expected in connection with the use of AI – for example, in the verification of inspection results, where decisions can gradually be made by the application itself. Other AI solutions developed at Viscom are, e.g., the X-ray based segmentation of voids and the automated creation of inspection programs. The focus is primarily to relieve the burden on employees at the assembly lines.

The inspection systems on display at the Viscom booth are a perfect example to practically illustrate the complete SMT manufacturing process. The S3088 ultra chrome SPI inspects solder pads quickly and with high precision boasting a height resolution of 0.1 µm/pixel. The system's communication with the printer enables automatic misalignment corrections and optimization of stencil cleaning cycles. The placer, in turn, can use another closed loop to the SPI machine to base the positioning of the components on the actual solder paste alignment. After passing through the reflow oven, the high-throughput S3088 ultra chrome 3D-AOI system takes over the control of

soldering and component positions. Nine cameras ensure virtually shadow-free 3D inspection.

What cannot be inspected optically, such as voids in solder joints, is measured and analyzed using state-of-the-art 3D-AXI methods. Depending on the configuration, the award-winning systems of the iX7059 series from Viscom can inspect flat assemblies up to a length of 1600 mm or, e.g., inspection objects weighing up to 40 kg, using X-ray technology. For prototypes, small series, or in case of customer complaints, the X8011-III semi-automatic X-ray system is the perfect solution, which, like the S3088 ultra chrome SPI, will be shown for the first time at an Asian trade show during NEPCON China 2023. Another special highlight: A virtual showroom at the Viscom booth offers an even much larger system overview. Users can move from machine to machine on the screen and call up relevant information.

The manufacturing of the inspection systems is located at the main site of Viscom AG in Hanover, Germany – together with the development of the associated software. An important feature of the ready-to-use applications is, for example, the networked access to results from all inspection gates. The modular vConnect platform, in turn, offers a broad portfolio of innovative and individually scalable digital services ranging from condition monitoring and IT management services to high-performance storage solutions. Real-time data and analyses can be accessed and controlled from devices like a smartphone, tablet, or desktop PC. This makes it possible, for example, to implement cross-site predictive maintenance very efficiently.



The S3088 ultra chrome is available as 3D-AOI and 3D-SPI version



The iX7059 PCB Inspection XL scores, e.g., with a fast and dynamic 3D-AXI image acquisition process



The X8011-III semi-automatic 3D-MXI system delivers brilliantly sharp X-ray images and can be used very flexibly

About Viscom

Founded in 1984, Viscom AG is one of the leading suppliers worldwide in the field of assembly inspection within electronics production. With its headquarters and production site in Hanover, Germany, the company develops, produces and sells high-quality inspection systems from the areas of AOI, SPI, AXI, MXI, wire bond inspection as well as conformal coating inspection. The systems developed and manufactured in Hanover set high standards in terms of accuracy and speed. The product range covers the complete spectrum of optical inspection and X-ray inspection for small and medium-sized companies as well as for large series production. Viscom systems are used for 100% automatic inspection of electronic assemblies such as those used in the production of automotive electronics, aerospace technology or in the manufacture of telecommunications electronics.

Product development also focuses on customer-specific system developments and networking with other production processes for smart factory applications. In order to achieve this, Viscom AG increasingly invests in its own software and hardware development which is constantly defining new standards in inspection technology.

International sales are handled by a broad network of its own subsidiaries, application centers, service centers and representatives. A service team of in-house technicians and application specialists commission Viscom systems worldwide, offering maintenance, conversion and modernization from a single source. In addition, system-specific training courses are offered for customers' operators, programmers and maintenance personnel. Experienced engineers and technicians from the application and service departments share their expert knowledge with participants.

Viscom AG has been listed on the Frankfurt Stock Exchange since 2006 (ISIN: DE0007846867).