

OMRON introduces VT-M121: Industry's first 2D Dimension & Visual Inspection Machine

- *Contributing to achieve 'zero defect' with full inspection to satisfy quality requirements of automotive industry*

New Delhi, January 18, 2019: World's leading end-to-end automation solutions provider OMRON Corporation has introduced industry's first '[VT-M121: 2D dimension and visual inspection machine](#)' that performs dimension and visual inspection simultaneously to detect scratches and cracks on products.

VT-M121 demonstrates feasible full inspection to meet required quality standards of the automotive industry in full cooperation with SII Corporation, which is Japan's largest provider of Electronics Manufacturing Service (EMS) and works to improve the production quality of electronics components to increase their reliability. Instead of the inspection process of the sampling inspection by operators, VT-M121 enables full inspection automatically in the production line and contributes to achieving 'zero defect' in automotive electronics which is one of the key requisites to maintain high quality and reliability.

Along with the progress in the development of automotive technology such as ADAS (Advanced Driver Assistance System), self-driving, and EVs (Electric Vehicles), globally, the installation rates of important electrical safety components have been increasing, such as - millimeter-wave radar to detect vehicles and pedestrians with wireless connection, electronics mirror mounted as replacement of the current sideview mirror & inside rearview mirror, and LED headlamps. However, these high-density and miniaturized automobile electric components require time to conduct their visual inspection. Therefore, their current inspection process is the sampling inspection in each unit. To improve the quality and reliability of these important safety components, full inspection based on automation is one of the dire needs of the industry.

VT-M121 enables detection of defects like or even more precisely than a human eye by using the sophisticated image-processing system 'FH series' with illumination pattern of MDMC Light that can flexibly change the illumination color and the angle. Thanks to 'NJ damping control' that integrates the sequence control and motion control, it can also minimize the camera vibration and realize high-speed and high-accuracy inspection. By the simultaneous dimension and visual inspection, the machine reduces the inspection time and improves the dimension and inspection performance with 'the repeat accuracy 10 μm '.

VT-M121 contributes to the safety and reliability of automobile manufacturing by achieving customers' 'zero defect' through full-scale guarantee and accumulation and management of inspection data in place of on-the-spot inspections.

About "innovative-Automation"

As a leader in industrial automation, OMRON has extensive lines of control components and equipment, ranging from vision sensors and other input devices to various controllers and output devices such as servomotors, as well as a range of safety devices and industrial robots. By combining these devices via software, OMRON has developed a variety of unique and highly effective automation solutions for manufacturers worldwide. Based on its reservoir of advanced technologies and comprehensive range of devices, OMRON set forth a strategic concept called "innovative-Automation" consisting of three innovations or "i's": "integrated" (control evolution), "intelligent" (development of intelligence by ICT), and "interactive" (new harmonization between people and machines). OMRON is now committed to bringing innovation to manufacturing sites by materializing this concept.

About OMRON Corporation

OMRON Corporation is a global leader in the field of automation based on its core technology of "Sensing & Control + Think." Established in 1933, OMRON has over 36,000 employees worldwide, working to provide products and services in 117 countries. The company's business fields cover a broad spectrum, ranging from industrial automation and electronic components to automotive electronic components, social infrastructure systems, healthcare, and environmental solutions. In the field of industrial automation, OMRON supports manufacturing innovation by providing advanced automation technologies and products, as well as through extensive customer support, in order to help create a better society. Its CEO is Yoshihito Yamada. For more information, please visit: www.omron.com and www.omron.co.in

About SIIX Corporation

SIIX Corporation is a global business organizer providing support in various fields of manufacturers worldwide, including automotive parts, industrial-use equipment, and consumer electric devices. The company provides worldwide services to meet customer needs such as purchasing electronics components, board mounting, assembling end products, tooling, and molding. Its corporate target is to organize customer needs in all fields around the world based on its worldwide experience of over 60 years to give all stakeholders a sense of affinity and charm as a "global business organizer" that creates business. For more information, visit SIIX's website at: <http://www.siix.co.jp/eg/>

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