
GLOSSARY OF TECHNICAL TERMS

This glossary of technical terms contains explanations of certain terms used in this document as they relate to our Company and as they are used in this document in connection with our business or us. These terms and their given meanings may not correspond to standard industry definitions.

“2D”	two-dimensional imaging that captures flat, planar information such as shape, colour, and surface patterns using standard cameras, without any depth or height measurement capability
“2.5D”	an intermediate approach capturing limited height or depth information alongside conventional 2D surface data, typically using structured light or laser profiling to detect surface topology variations
“3C”	computer, communication and consumer electronics
“3D”	three-dimensional imaging that captures full volumetric data including length, width, and height simultaneously, enabling comprehensive spatial measurement and precise defect detection across complex surface geometries and structures
“AGV”	automated guided vehicle, a type of driverless, self-navigating transport vehicle used in manufacturing and logistics environments to autonomously move materials, components, or finished goods along predetermined or dynamically mapped routes
“AI”	artificial intelligence, an area of computer science that focuses on simulating human intelligence by machines
“algorithm”	a procedure or formula for solving a problem, based on conducting a sequence of specific actions, especially by a computer
“AOI”	automated optical inspection, a machine vision-based inspection method that automatically detects surface defects, dimensional deviations, and assembly errors using optical imaging systems
“ASRS”	automated storage and retrieval system, a computer-controlled warehouse system that automatically places and retrieves goods from defined storage locations
“BOM”	bill of materials
“CCD”	charge-coupled device, a type of image sensor that converts light into electrical signals, delivering high-resolution, low-noise imaging widely used in machine vision and industrial inspection applications
“CFC”	chlorofluorocarbon
“changeover”	the process of switching a production line for manufacturing one product to another
“CMMs”	coordinate measuring machine, a type of precision instruments that measure the geometric dimensions and tolerances of manufactured components using a probing system
“CNC”	computer numerical control, a manufacturing technology using computer-programmed instructions to automate and precisely control machine tool movements and operations

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“CPU”	central processing unit, the primary processor of a computer system responsible for executing instructions and managing overall computational operations
“deep learning”	a machine learning technology that constructs artificial neural networks with multiple layers to extract features from the raw input
“EHR”	Electronic Human Resource, a system for managing employee data and optimizing human resource workflows
“ERP”	enterprise resource planning, a type of integrated software system managing core business functions including finance, procurement, production, and inventory across an organization
“eVTOL”	electric vertical take-off and landing, a type of electrically powered aircraft capable of vertically taking off and landing, designed for urban air mobility and passenger transport
“GPU”	graphics processing unit, a type of specialized processor designed for parallel computing tasks, widely used in graphics rendering, AI model training, and machine vision applications
“GWh”	gigawatt hour, a unit of energy equal to one billion watt-hours, commonly used to measure large-scale battery production capacity and energy storage
“HFC”	hydrofluorocarbon
“HI-POT testing machine”	high potential testing machine, which is an electrical safety instrument used to verify the insulation integrity of devices, cables, and components
“HNTE”	High and New Technology Enterprises, a Chinese government certification granted to qualifying technology companies, entitling them to preferential corporate income tax treatment
“Instance Segmentation”	a pixel-level vision task that detects and delineates each individual object instance by predicting a separate segmentation mask for each object, together with its class label and typically a confidence score, thereby separating multiple instances of the same class in the scene
“ISO 14001”	ISO 14001 environmental management system certification
“machine vision”	a method that utilizes computer vision and image processing technologies to achieve automated inspection, automatic positioning, identification, and measurement
“MES”	manufacturing execution system, a real-time digital system that monitors, tracks, and controls manufacturing processes on the shop floor, bridging enterprise planning systems and production operations
“MWh”	megawatt hour, equal to one million watt-hours, commonly used to measure electricity generation, consumption, or battery energy storage capacity
“NEV”	new energy vehicle powered entirely or partially by alternative energy sources such as electricity or hydrogen, including battery electric, plug-in hybrid, and fuel cell vehicles

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“NG”	nonconforming, indicating that a product, component, or process fails to meet specified quality standards
“OA”	office automation system, a digital platform integrating administrative workflows, document management, and internal communications to streamline routine office processes and improve organizational efficiency
“OEE”	overall equipment effectiveness, a manufacturing performance metric measuring equipment availability, production performance, and quality rate to evaluate and improve the productive efficiency of machinery
“OMECS”	optics-mechanics-electronics-computing-software
“operators”	operators are pre-packaged functions in an algorithm library designed to execute specific image processing or analytical tasks
“PACK”	battery pack, an integrated battery assembly that combines multiple cells into a usable power unit for an end application
“PC”	personal computer
“PCT”	Patent Cooperation Treaty, an international treaty enabling applicants to file a single application for patent protection across multiple countries worldwide
“PLC”	programmable logic controller, a specialized, hardened digital control device designed for industrial environments, employing a programmable memory to store instructions and execute logic, sequencing, timing, counting, and arithmetic operations
“PLM”	Product Lifecycle Management, an integrated system managing a product’s entire lifespan from initial design and development through manufacturing, deployment, and eventual end-of-life retirement
“PPB level”	parts per billion, a measurement unit expressing extremely low concentrations of defects or contaminants, equivalent to one occurrence per one billion units or measurements
“PPM level”	parts per million, a measurement unit expressing defect or contamination concentration as one occurrence per one million units, commonly used in quality control and manufacturing
“PV”	photovoltaic, a technology that converts sunlight directly into electricity using semiconductor-based solar cells, widely deployed in residential, commercial, and utility-scale power generation applications
“QR code”	a type of two-dimensional barcode that stores information such as URLs, text and data for quick scanning and identification
“R corners”	rounded corners with a specified radius, referring to the arc-shaped corners of battery cells or components, used for assembly fit and safety design
“R&D”	research and development

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“semantic segmentation”	a pixel-level vision task that assigns a semantic class label to every pixel in an image or to every point in a point cloud, producing a dense classification map over a predefined set of categories, without distinguishing different object instances within the same class
“solid-state battery”	a type of battery that uses solid electrodes and a solid electrolyte, offering higher energy density, improved safety, and longer cycle life
“SRM”	Supplier Relationship Management, a system optimizes collaboration, contracts, and performance with vendors to strengthen procurement efficiency and reduce supply risks
“TISAX”	Trusted Information Security Assessment Exchange, an automotive industry information security assessment standard
“TWh”	terawatt hour, a unit of energy equal to one trillion watt-hours, commonly used to measure large-scale electricity generation or battery storage capacity
“VMC”	vertical machining center, a type of CNC (Computer Numerical Control) machine used for precision milling, drilling, and tapping, featuring a vertically oriented spindle
“VOC”	volatile organic compounds that readily evaporate at room temperature, commonly emitted during industrial processes and associated with air pollution and health risks