
GLOSSARY OF TECHNICAL TERMS

This glossary of technical terms contains explanations of certain technical terms used in this document. As such, these terms and their meanings may not correspond to standard industry meanings or usage of these terms and may not be comparable to similar terms adopted by other companies.

"4G"	a collection of fourth-generation wireless mobile telecommunication technologies
"ADAS"	advanced driver assistance system, an electronic system designed to enhance driving safety by providing forward-collision warnings or other automated features
"AI"	artificial intelligence
"AI Agent"	a software system or program that leverages artificial intelligence technologies to perceive its environment, make autonomous decisions, plan actions, and execute tasks to achieve predefined goals on behalf of a user, application or another system
"AIoT"	artificial intelligence of things, the integration of AI technologies with IoT devices and infrastructure to enable intelligent, automated decision-making at the device level
"AOI"	automated optical inspection, a testing method that uses optical imaging systems to automatically detect defects on a subject under inspection
"BSP"	board support package, a software layer containing hardware-specific drivers and underlying routines that enables an operating system or software to interact and function with the underlying hardware components
"CAGR"	compound annual growth rate
"CIS"	CMOS image sensor, an image sensor that utilizes complementary metal-oxide-semiconductor technology to convert incident light into electronic signals
"CLI"	command-line interface, a text-based user interface used to operate software and operating systems
"DDPAI App"	mobile application developed by our Company, which is designed for end-users to connect, control, and interface with our products, as well as to manage content
"DDR"	Double Data Rate, a type of computer memory that transfers data twice per clock cycle
"DIP"	dual in-line package, a manufacturing process where electronic components are inserted into pre-drilled holes on a printed circuit board and soldered

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"DMS"	driver monitoring system, a system that monitors a driver's state to identify conditions such as fatigue or distraction
"DTC"	direct-to-consumer
"eMMC"	embedded multimedia card
"EOL aging"	end-of-line aging, a quality control step of electronic products manufacturing, wherein assembled devices are operated continuously under specified conditions for a certain period to screen out latent hardware defects and ensure the reliability of final products
"ERP"	enterprise resource planning, an information management system that integrates core business processes across an enterprise
"G-sensor collision locking"	a technology that employs a gravity sensor to detect sudden changes in a vehicle's acceleration or impact forces
"GPS"	global positioning system, a satellite-based radio navigation system that provides geographical coordinates expressed as longitude and latitude and timing information
"HDR"	high dynamic range, a set of imaging technologies and techniques designed to increase the dynamic range of images or videos
"IATF 16949"	a technical specification developed by the International Automotive Task Force for establishing a quality management system which provides for continual improvement, emphasizing defect prevention and the reduction of variation and waste in the automotive industry supply chain and assembly process
"IoT"	internet of things, a network of physical devices equipped with information-sensing and communication capabilities
"IPS"	intelligent protection system, a power management technology utilized in smart imaging devices to monitor vehicle battery voltage in real-time and automatically cut off power when the voltage falls below a preset threshold to prevent battery over-discharge
"IP67"	an ingress protection rating as defined under the International Electrotechnical Commission standards. The first digit "6" indicates the highest level of protection against solid particles, and the second digit "7" indicates protection against the effects of temporary immersion in water under prescribed conditions

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"IQC"	incoming quality control, a quality management procedure involving the inspection and testing of raw materials, components, and parts delivered by suppliers before they are accepted into the production line
"ISO"	the International Organization for Standardization, an independent, non-government organization based in Geneva, Switzerland, that develops and publishes international standards
"ISO 9001"	an internationally recognized standard for quality management systems enacted by the ISO
"ISP"	image signal processing, a technology used to process raw data from image sensors to enhance image quality
"LTE"	long term evolution, a fourth-generation wireless mobile telecommunication technology standard
"MES"	manufacturing execution system
"mobile third space"	an in-vehicle environment which, as an industry concept, represents a vehicle's cabin that evolves beyond a basic transportation tool into a living and leisure space, distinct from the home (the first space) and the workplace (the second space), through the integration of AI, AIoT, and smart imaging technologies and which our smart hardware and AI-driven features greatly promote
"NightVIS"	our proprietary image enhancement technology designed to improve imaging clarity and visibility in low-light or nighttime environments
"OA"	office automation
"OBD"	on-board diagnostics, a standardized protocol and interface that allows external electronic devices to interface with a vehicle's computer system
"OTA"	over-the-air, a technology used for the wireless remote distribution, updating, and upgrading of software, hardware, or configuration data to terminal devices
"PCB"	printed circuit board, a flat board or base made of insulating material with conductive pathways etched or printed onto its surface. It is used to mechanically support and electrically connect electronic components to form an integrated circuit
"point"	a solder joint, serving as the fundamental unit of measurement in SMT production to evaluate actual machine loading, assess overall production capacity, and calculate manufacturing costs

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“sensor”	a device, module, machine, or subsystem whose purpose is to detect events or changes in its environment and send the information to other electronics, frequently a computer processor
“SMT”	surface mount technology, a process by which electronic components are mounted directly on the surface of a printed circuit board
“SoC”	system-on-chip, an integrated circuit that integrates key electronic components onto a single chip
“SR”	simulated reality, a technology that employs sensors to collect real-time vehicle dynamic data and overlays information onto the video footage in a graphical dashboard format to provide an immersive driving experience
“tonne”	metric ton, equal to 1,000 kilograms
“vlog”	video blog, a form of blog for which the medium is video, commonly used to record, create and share personal daily lives, travel experiences, or specific topics of interest
“WDR”	wide dynamic range, an image processing technology that enables cameras to capture clear images in high-contrast lighting environments by utilizing multi-exposure fusion algorithms to balance light levels across the scene, preventing overexposure in highlights while preserving visibility in shadowed areas
“WMS”	warehouse management system
“ π Chips”	our self-developed technical platform focused on the underlying secondary development of high-performance system-on-chips, hardware drivers, and signal processing capabilities
“ π Lens”	our self-developed technical platform focused on the deep integration of optical design, lens engineering, and image algorithms
“ π Link”	our multi-device networking protocol that supports seamless data transmission and interconnection between various smart imaging devices
“ π OS”	our self-developed technical platform covering business logic software, companion App applications, and cloud service systems