

## GLOSSARY OF TECHNICAL TERMS

*This glossary of technical terms contains explanations of certain technical terms used in this document in connection with our Company and our business. Such terminology and meanings may not correspond to standard industry meanings or usages of those terms.*

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| “3A”                  | auto exposure, auto focus and auto white balance, a set of automatic camera functions that optimize image quality by automatically adjusting exposure, focus, and white balance in real time based on scene conditions                             |
| “3D noise reduction”  | three-dimensional noise reduction, an image and video processing technique that reduces noise by analyzing both spatial and temporal information across multiple frames, improving image quality especially in low-light conditions                |
| “5G”, “5G-A” and “6G” | the fifth generation, 5G-advance and the sixth generation of mobile communication technology                                                                                                                                                       |
| “AI”                  | artificial intelligence, the capability of computational systems to perform tasks typically associated with human intelligence, such as learning, reasoning, problem-solving, perception, and decision-making                                      |
| “AI inference SoCs”   | SoC solutions specifically designed to execute AI inference tasks, such as image recognition or natural language processing, directly on the chip                                                                                                  |
| “AI-ISP”              | artificial intelligence image signal processor, a technology that combines traditional image signal processing with AI algorithms to enhance image and video quality, including noise reduction, dynamic range optimization, and scene recognition |
| “AIoT”                | artificial intelligence of things, the combination of AI technologies with IoT infrastructure to enable intelligent, autonomous decision-making at the edge                                                                                        |
| “algorithm”           | a procedure or set of rules used in calculation and problem solving by computer systems                                                                                                                                                            |
| “ASIC”                | application-specific integrated circuit, an integrated circuit designed for specific purposes and manufactured for specific user requirements and electronic systems                                                                               |
| “Bluetooth”           | a wireless technology standard for exchanging data over short distances, commonly used for connecting devices such as smartphones, computers, and peripherals                                                                                      |
| “Bluetooth SoC”       | a single, integrated circuit that contains all the necessary components — like a processor, radio frequency transceiver, memory, and peripherals — for a device to communicate using Bluetooth technology                                          |

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| “bus interconnect” | a set of parallel or serial pathways (the “bus”) used to transfer data between components within a computer or other systems                                                                                                                           |
| “cloud-based”      | applications, services or resources made available to users on demand via the internet from a cloud computing provider’s servers with access to shared pools of configurable resources                                                                 |
| “CMS”              | camera monitoring system, an advanced system that replaces or supplements traditional vehicle mirrors with cameras and displays, providing drivers with improved visibility and reduced blind spots                                                    |
| “CNN”              | convolutional neural network, a type of feedforward neural network that learns features via filter (or kernel) optimization, which has been applied to process and make predictions from many different types of data including text, images and audio |
| “CPU”              | central processing unit, an integrated circuit that serves as the computational and control core of an electronic product                                                                                                                              |
| “DDR” and “LPDDR”  | double data rate and low power double data rate, a type of memory, or the low power version, for high-speed data access, requiring sustained power and offering large capacities                                                                       |
| “die”              | an individual chip obtained from a wafer after it has undergone cutting and extraction processes                                                                                                                                                       |
| “DMS”              | driver monitoring systems, safety technologies in vehicles that use cameras and sensors to track driver behavior like fatigue, distraction, and attention levels, alerting drivers to potential dangers or intervening to prevent accidents            |
| “DRAM”             | dynamic random access memory, a type of volatile memory used in computers and other devices to store data that is actively being used or processed, requiring periodic refreshing to maintain the stored information                                   |
| “dToF”             | direct time of flight, a sensor technology that measures distance by emitting short light pulses and directly measuring the time it takes for each pulse to reflect off an object and return to the sensor                                             |
| “DVR”              | digital video recorder, an electronic device that records, stores and plays back video footage in a digital format, commonly used in security and television systems                                                                                   |
| “edge AI”          | artificial intelligence algorithms and processing performed locally on edge devices, rather than relying on cloud-based resources, enabling real-time data analysis and decision-making                                                                |

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| “EIS”                | electronic image stabilization, a technique used in cameras and video devices to reduce blurring associated with the motion of a camera or other imaging device                                                                                                                                                              |
| “fabless”            | a business model in the semiconductor industry where a company designs and sells hardware devices and semiconductor chips but outsources the fabrication of the devices to a specialized manufacturer called a foundry                                                                                                       |
| “first-pass silicon” | the initial batch of silicon chips produced from a new design, ideally functioning correctly without requiring further design modifications or re-spins                                                                                                                                                                      |
| “fisheye dewarping”  | a digital image processing method that corrects the distortion caused by fisheye lenses, producing a more natural and rectilinear image from wide-angle camera footage                                                                                                                                                       |
| “GPU”                | graphics processing unit, a specialized electronic circuit designed to rapidly process and render images, videos, and animations                                                                                                                                                                                             |
| “HDR” and “WDR”      | high dynamic range and wide dynamic range, image processing techniques that enhance the contrast and detail in scenes with both very bright and very dark areas, allowing cameras to capture more detail in challenging lighting conditions                                                                                  |
| “HMIs”               | human-machine interfaces, a device or software that allows a person to interact with a machine, system, or process, most often used in the context of industrial and manufacturing control systems                                                                                                                           |
| “IC”                 | integrated circuit, a type of miniature electronic device or component integrating all the necessary transistors, resistors, capacitors, inductors and their connecting wires for a circuit onto a small semiconductor wafer                                                                                                 |
| “IDM”                | integrated device manufacturer, which in the context of the semiconductor industry, refers to a company that covers the entire business segment, including chip design, wafer fabrication and packaging and testing                                                                                                          |
| “Industry 4.0”       | the ongoing transformation of manufacturing and related industries through the integration of digital technologies, automation and data exchange in smart factories                                                                                                                                                          |
| “IoT”                | internet of things, a network of interconnected devices that communicate and exchange data with each other over the internet                                                                                                                                                                                                 |
| “IP”                 | intellectual property, refers to the exclusive rights legally enjoyed by rights holders over the fruits of their intellectual labor and the marks and reputation established in their business operations. In this document, semiconductor IP denotes verified, reusable integrated circuit modules with specific functions. |

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| “IPC”              | internet protocol camera, a digital video camera that sends and receives data through an internet protocol network, such as the internet or a local area network                                                                     |
| “ISP”              | image signal processor, a type of media processor or specialized digital signal processor used for image signal processing, in digital cameras or other devices                                                                      |
| “iToF”             | indirect time of flight, a depth-sensing technology that measures distance to an object by illuminating it with a continuously modulated light source and analyzing the phase shift of the reflected light                           |
| “KGD”              | known good die, a bare semiconductor die that has been tested and verified to meet all functional and performance specifications while still in wafer form                                                                           |
| “LDC”              | lens distortion correction, a process or algorithm that compensates for optical distortions introduced by camera lenses, resulting in more accurate and undistorted images                                                           |
| “LiDAR”            | Light Detection and Ranging, a remote sensing method that uses pulsed laser light to measure variable distances to an object or surface                                                                                              |
| “LLM”              | large language model, a type of artificial intelligence that uses deep learning techniques and massively large datasets to understand, summarize, generate, and predict new content                                                  |
| “machine learning” | a subset of artificial intelligence where algorithms improve automatically through experience and data analysis, enabling systems to make predictions or decisions without explicit programming                                      |
| “main controller”  | the primary integrated circuit responsible for governing the operations and functionality of an electronic system. It executes software instructions, manages connected peripherals, and coordinates data flow throughout the system |
| “memory chips”     | volatile or non-volatile storage components that provide temporary runtime data storage or permanent program or file storage for the main controller                                                                                 |
| “memory wafer”     | a silicon wafer containing multiple uncut and unpackaged memory chips that have completed the front-end manufacturing process. It serves as the base material for subsequent die separation, testing and packaging                   |
| “Motion JPEG”      | a video compression format in which each frame of the video is compressed as an individual JPEG image, allowing for simple editing and high-quality video playback                                                                   |
| “MP”               | megapixels, a unit of resolution equal to one million pixels, used to measure the image capture capabilities of digital cameras and displays                                                                                         |

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| “ <b>multi-modal LLM</b> ”       | multi-modal large language model, a type of artificial intelligence that capable of processing and understanding multiple types of data inputs, such as text, images and audio, to generate comprehensive responses or analyses |
| “ <b>NAS</b> ”                   | network attached storage, a general-purpose centralized storage device for various types of data that is accessible to authorized users and clients on a network                                                                |
| “ <b>NPU</b> ”                   | neural processing unit, a specialized microprocessor designed to accelerate artificial intelligence and machine learning tasks                                                                                                  |
| “ <b>NVR</b> ”                   | network video recorder, a specialized computer system that records video in a digital format to a disk drive, USB flash drive, SD memory card, or other mass storage device, typically used in IP video security camera systems |
| “ <b>OEM</b> ”                   | original equipment manufacturer, a company that uses its brand advantages, core technologies and sales channels to have products produced by a manufacturer with production capabilities and then sells them to the market      |
| “ <b>OMS</b> ”                   | occupant monitoring systems, an in-cabin sensing technology used in vehicles to detect and analyze the presence, position, and actions of all passengers                                                                        |
| “ <b>on-device</b> ”             | data processing, computation, or AI tasks that are performed locally on the device itself rather than being sent to a remote server or cloud                                                                                    |
| “ <b>OSAT service provider</b> ” | companies providing back-end processes in semiconductor manufacturing, such as packaging, assembly and testing services                                                                                                         |
| “ <b>PCIe</b> ”                  | peripheral component interconnect express, a high-speed interface standard used to connect various hardware components, such as graphics cards and storage devices, to a computer’s motherboard                                 |
| “ <b>secure boot</b> ”           | a security feature that ensures a device boots using only software that is trusted and verified by the device manufacturer, protecting against unauthorized or malicious firmware                                               |
| “ <b>SerDes</b> ”                | serializer/deserializer, a pair of functional blocks used in high-speed communications to convert data between serial and parallel formats, enabling efficient data transmission between integrated circuits                    |
| “ <b>SoCs</b> ”                  | system-on-chip, a semiconductor product which integrates the core components of a computer or other electronic system, including CPU, GPU, memory, input/output ports, and often specialized accelerators, onto a single chip   |

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| “SPAD”                        | single-photon avalanche diode, a highly sensitive photodetector capable of detecting single photons, often used in LiDAR and 3D sensing applications                                                 |
| “Tier 1 automotive suppliers” | companies that supply automotive manufacturers directly with critical systems, modules or components                                                                                                 |
| “ToF”                         | time of flight technology, a method of distance measurement that uses the round-trip time of a signal to calculate the distance between a sensor and an object                                       |
| “TOPs”                        | tera operations per second, a benchmark that quantifies the number of trillions of operations a processor can perform in one second                                                                  |
| “transformer”                 | a type of deep learning model architecture, particularly effective for processing sequential data such as natural language, and increasingly used in computer vision and multi-modal AI applications |
| “TrustZone”                   | a security technology that creates a secure execution environment within a processor, isolating sensitive operations and data from the main operating system to enhance device security              |
| “VoIP”                        | voice over Internet protocol, a technology that enables voice communication and multimedia sessions over the Internet rather than traditional telephone networks                                     |
| “wafer”                       | a large, round semiconductor silicon containing multiple identical integrated circuits, prior to being diced into individual chips                                                                   |