GLOSSARY OF TECHNICAL TERMS

This glossary 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.

"ABS"	anti-lock braking system
"AI"	artificial intelligence
"BEV"	bird's-eye view, an elevated view of an object or location from a very steep viewing angle, creating a perspective as if the observer were a bird in flight looking downwards
"CCC"	China Compulsory Certificate, a certification of product quality and safety
"CVPR"	the Conference on Computer Vision and Pattern Recognition, a leading academic conference in the field of computer vision and artificial intelligence
"drive-by-wire"	a design where vehicle functions such as steering, braking and acceleration are electronically controlled via commands sent through electronic interfaces, replacing the traditional manual controls such as pedals or levers operated by the hand and foot
"EBS"	electronic braking system
"EEA"	electrical and electronic architecture, the integrated structure of a vehicle's electrical and electronic systems
"electrification"	in the automotive industry, refers to the process of powering the vehicle by electricity, replacing vehicle components that operate on a conventional energy source
"end-to-end MLLM"	an end-to-end multimodal large language model capable of processing and integrating multiple forms of data inputs, including text, images, sensor and driving data, for autonomous driving-related applications
"hp"	horsepower
"HV"	high-voltage
"km"	kilometer
"ms"	milliseconds
"perception"	in autonomous vehicles, refers to the ability of vehicles to perceive and understand its environment, process and interpret data from sensors and base decisions on this knowledge

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"PTC"	positive temperature coefficient
"PTO"	power take off
"R&D"	research and development
"redundancy"	referring to employing two or more parallel systems, sensors or components that perform the same or similar functions to ensure that the vehicle can continue to operate safely in the event of partial failure
"RoboTruck solution"	an autonomous heavy-duty trucking solution developed by the Company, including vehicles equipped with by-wire chassis designed for autonomous driving, supported by the ZSD system, and a cloud-based digital platform that can be integrated with each customer's specific operating scenario
"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
"sq.m."	square meter
"TCO"	total cost of ownership, namely the complete cost of owning and operating a vehicle over its entire lifespan
"TCU"	transmission control unit, a control system that manages the transmission in coordination with the VCU to optimize energy consumption and performance
"VCU"	vehicle control unit, a central domain controller located within a machine, which receives signals from various sensors dispersed throughout the machine, including those linked to the brakes, accelerator pedal, battery system, and charging connections
"ZSD"	Zeron Self-Driving, the Company's proprietary end-to-end MLLM for heavy-duty truck autonomous driving