
GLOSSARY OF TECHNICAL TERMS

The following is a glossary of certain terms used in this document in connection with us and/or our business. As such, these terms and their meanings may not correspond to standard industry meanings or usage of these terms.

“ADaaS”	Autonomous Driving as a Service
“ADAS”	advanced driver assistance system, electronic systems developed to automate, adapt, and enhance vehicle systems for safety and better driving
“AI”	artificial intelligence, an area of computer science that focuses on mimicking human intelligence by machines
“AR”	augmented reality
“BaaS”	Battery as a Service, which is enabled by vehicle-battery separation and battery subscription
“BEVs”	battery electric passenger vehicles
“BMS”	battery management system, an electronic system that manages a rechargeable battery (cell or battery pack), such as by protecting the battery from operating outside its safe operating area, monitoring its state, calculating secondary data, reporting that data, controlling its environment, authenticating it and/or balancing it
“CAGR”	“CAGR” compound annual growth rate, the geometric progression ratio that provides a constant rate of return over the time period
“Clean+”	NIO’s certification of sustainable materials
“Clean Parks”	an open platform initiated by NIO to support nature reserves, build up energy infrastructure, and establish a clean and low-carbon energy cycle system
“CLTC”	China Light-duty Vehicle Test Cycle
“EV”	electric passenger vehicles
“FOTA”	firmware-over-the-air, which enables the upgrade of the operating firmware across the vehicle’s core systems remotely
“ICE”	internal combustion engine

GLOSSARY OF TECHNICAL TERMS

“Insulated Gate Bipolar Transistor”	three-terminal power semiconductor device primarily used as an electronic switch
“LFP”	lithium-ion battery cells that uses lithium, iron and phosphate as cathode materials
“LiDAR”	Light Detection and Ranging, a remote sensing method used to examine the surface of the Earth
“Long Range Battery”	100 kWh battery
“MSRP”	manufacturer suggested retail price
“Navigate on Pilot”, or “NOP”	feature of NIO Pilot, which is able to guide a vehicle on and off ramps, overtake, merge lanes and cruise according to planned routes in highways and urban expressways
“NCM”	lithium-ion battery cells that uses nickel, cobalt and manganese as cathode materials
“NEDC”	New European Driving Cycle
“NEV” or “NEVs”	new energy passenger vehicles, including BEVs
“NIO Power”	mobile internet-based power solution with extensive networks for battery charging and swapping facilities, which offers a power service system with chargeable, swappable and upgradable batteries to provide users with power services catering to all scenarios
“NOMI”	AI companion seamlessly integrated with a variety of infotainment and navigation features in the digital cockpit, which is able to learn users’ preferences over time
“Nurburgring Nordschleife”	test track for auto manufacturers, and its demanding layout had been traditionally used as a proving ground
“PanoCinema”	NIO’s panoramic digital cockpit, featuring AR and VR technologies
“Silicon Carbide”	semiconductor containing silicon and carbon
“SOTA”	software-over-the-air, which allows for the upgrade of the vehicles software remotely
“Standard Range Battery”	70 kWh and 75 kWh battery

GLOSSARY OF TECHNICAL TERMS

“SUV”	sport utility vehicles
“Ultra-Long Range Battery”	150 kWh battery
“UWB”	ultra-wideband, a radio technology that can use a very low energy level for short-range, high-bandwidth communications over a large portion of the radio spectrum
“V2X”	Vehicle-to-everything, a communication between a vehicle and any entity that may affect, or may be affected by, the vehicle
“VR”	virtual reality