

Advanced Driver Assistance System (先進駕駛輔助系統)

All vehicles shall be roadworthy before registration and licensing.

2. Advanced Driver Assistance System (ADAS) improves road safety by utilising sensors installed in vehicles to provide drivers with information about the vehicle's status and changes in the driving environment, and subsequently draw drivers' attention to take necessary action timely. Moreover, some ADASs equipped in vehicles is capable to perform automatic driving, enabling lateral and longitudinal vehicle control under the driver's instructions and appropriate conditions to assist the driver in controlling the vehicles. Considering the latest developments in vehicles and the need to enhance vehicle and road safety, the Transport Department (TD) has allowed the use of approved ADAS in some vehicles, such as automatic parking, side collision warning, lane departure warning, lane departure assist, vehicle hold, automatic steer, automatic lane change, lane keeping, cruise control, automatic emergency braking, and remote control parking functions, etc.

3. If ADAS involves automatic steering functions, including automatic parking, automatic steer, automatic lane change, lane keeping, cruise control, and remote control parking or others similar to the above mentioned functions, approval from the TD is required. Currently, the TD accepts application of "Automatically Commanded Steering Function"¹ falling into the Category A, B1, and C according to the UNECE R79 standard, as well as the ADAS that belongs

¹ Relevant national and international standards must be complied with submission of supplementary document to support the applications for the "Automatically Commanded Steering Function" 「自動指令轉向功能」 defined as Category B2, D, and E in accordance with the UNECE R79 standard, or "**Driver Controlled Assistant System**" 「組合駕駛輔助系統技術」 which utilises maps as part of an integrated driving assistance system for driver monitoring autonomous driving.

The Transport Department will assess above mentioned application on case by case basis, including submission on (1) Recognized national / international certifications or equivalent and test reports; (2) Compliance with Hong Kong's traffic rule including "Road User Code"; (3) Demonstration on the response of the vehicle when ignoring warnings to drivers who do not monitor the driving of vehicle when the DCAS is in activation and subsequent measures if the driver continues to ignore the prompts from the DCAS; (4) Sufficient log on vehicle's conditions and operations in particular when the DCAS is in activation and (5) Proactive communication to the driver ensure their understanding of the limitations of the DCAS and their responsibilities when the DCAS is in activation and in use, etc.

Subject to compliance with legal requirements, approval will be granted for the functions to be used in specific driving environments.

to below autonomous driving level 3² as defined by “SAE International Standard J3016: Taxonomy and Definitions for Terms Related to On-Road Motor Vehicle Automated Driving Systems”, or internationally recognized equivalent standards.

4. The ADAS mentioned in paragraph 2 that performs “Automatically Commanded Steering Function” should fulfill the following requirements before approval from Transport Department:

1. Document submitted by the applicant shall be comprehensive to illustrate the various functions of the ADAS equipped in the vehicle;
2. The applicant shall submit sufficient supporting documents including certificates and test reports and etc. to substitute that the ADAS equipped in the vehicle complies with the requirements of UNECE R79 or equivalent standards;
3. The applicant shall submit sufficient documentation to prove that the vehicle is equipped with a monitoring system to ensure that the driver is driving the vehicle from the driver's seat (including, but not limited to, monitoring whether the driver is holding the steering wheel and ensuring that the driver has observed the road conditions prior to issuing a command to activate the ADAS to perform “Automatically Commanded Steering Function”, etc.);
4. The applicant's submission shall be able to substantiate that the ADAS meets the specified requirements specific for its functions³;
5. Vehicle operation and driving performed by the ADAS shall comply with existing traffic regulations⁴;
6. The applicant shall submit sufficient supporting documents to prove that a warning message in English and/or Chinese will pop up to remind the driver that the vehicle is not in full automation when the ADAS that performs “Automatically Commanded Steering Function” is activated

² Under Section 2 of the Road Traffic Ordinance (Cap. 374), vehicles capable of operating at Chinese National Standards/SAE Level 3, 4, or 5 of autonomous driving are classified as vehicles equipped with autonomous driving systems. Therefore, only vehicles equipped with driving assistance systems below Level 3 will be approved. Vehicles equipped with Level 3 or higher automated driving assistance systems shall be approved in accordance with the Road Traffic (Autonomous Vehicles) Regulations (Cap. 374AA) and the Code of Practice for Trial and Pilot Use of Autonomous Vehicles.

³ For example: the lane change assist function is restricted only available to roads with a central divider and a speed limit of 70 km/h or higher, and the above restrictions are clearly stated in the owner's manual and instructions for the relevant car models.

⁴ Chapters 5, 6, and 7 of the [Road Users' Code](#) compiled by the Transport Department for all drivers, professional drivers, and riders of motor cycles and motor tricycles.

and the driver should keep their hands on the steering wheel and continue to control the vehicle at all times. The applicant shall also ensure that drivers of the concerned are fully aware of the concerned ADAS features and their limitations; and

7. The vehicle's ADAS that performs “Automatically Commanded Steering Function” should automatically log the safety-critical events and vehicle’s operating data.

5. The above requirements is also applicable to the individual / parallel imported vehicle equipped with the concerned ADAS. If the vehicle does not meet the above conditions, it will not pass the pre-registration examination.

6. For enquiries on vehicle type approval application please contact Type Approval Section at 3961 0362. For enquiries on pre-registration inspection and vehicle first registration for parallel / individual imported private cars please contact Vehicle Safety Enforcement Section 2nd Unit at 3961 0323.

Transport Department

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