

xpark![®]: perfect automatic parking, even in tight spaces



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Developed by **intellitech**, the **xpark!**[®] technology has evolved since it was first introduced in 2005 at the 61st IAA motor show in Frankfurt.

The second generation is now capable of helping any driver park quickly in a space, even where there is barely 30 cm margin front and back, and whatever the obstacles surrounding the parking space.

xpark![®] turns the steering wheel automatically and guides the driver with visual and vocal instructions, indicating when to stop, go into reverse or go to first gear. **xpark!**[®] does not leave the driver helpless after the initial maneuver: it helps him until final alignment of his vehicle. With **xpark!**[®], the driver can easily get into small spaces requiring several maneuvers, without banging into any obstacles. He is assured of always being perfectly parked and of being able to get out of the space again, because **xpark!**[®] also helps drivers leave parking spaces.

xpark![®] works with all space configurations found in town centers: between two cars, even when they are badly parked or out of line, as well as between all kinds of obstacles (trucks, motorcycles, bicycles, bins, containers, posts, trees....). No problem either when parking alongside a wall or a curb, a hedge or a few small posts, including on bends and on sloping streets. If there is ordinary markings on the ground, **xpark!**[®] will align the vehicle on the roadside of obstacles. It is even possible to park in cases where maneuverability of the vehicle is reduced due to an obstacle located on the opposite side of the street, such as pavement, vehicle parked on the other side of the street in a one-way street, or vehicle driving in the opposite direction or on an adjacent lane.

Whatever the complexity of the situation, if **xpark!**[®] informs the driver that parking is possible, even if it estimates the difficulty level at "very hard", this means that it will succeed in parking in the space detected. 2 maneuvers and less than 20 seconds are required if the space is quite big (over 70 cm margin at the front and back), and 4 maneuvers and 35 seconds for a smaller space (35 cm margin front and back).

The latest progress in artificial intelligence helps **xpark!**[®] meet safety requirements by enabling real time adaptation to the presence and movement of obstacles around the parking vehicle. Similarly, the decision-making core of the system manages errors in measurement due to the ABS and ultrasonic sensors and, if necessary, can undertake specific maneuvers to avoid any risk of collision.

There are 10 ultrasonic sensors located on the bumpers at the front and back of the vehicle to ensure detection of obstacles in all weather, unlike reversing cameras which are sensitive both to weather and light conditions. There is no need, therefore, to keep one's eyes glued to the screen; the system will survey for the driver those areas that he cannot see.

xpark![®] adapts automatically to the driver making mistakes in following its instructions, as well as to his reaction time. The driver can stop his vehicle; the maneuver will continue as soon as the brake pedal is released. If he wishes, the driver can keep his hands on the steering wheel without affecting **xpark!**[®]; the driver just has to squeeze the steering wheel slightly to deactivate the function immediately.

xpark![®] puts an end to stress and errors of judgment, even for small parking spaces, heavy traffic or reduced visibility: everyone can park quickly and in total safety. **xpark!**[®] can be fitted on any vehicle, both with automatic and manual gearboxes. This innovative technology will be integrated onto vehicles that will be produced within the next 2 years. To better understand the outstanding performance of **xpark!**[®] in real usage conditions, please see the demonstration videos at www.xpark.fr.



About **xpark!**[®] technology

The result of 9 years of R&D, **xpark!**[®] integrates Artificial Intelligence techniques, including fuzzy logic, for the merging of imprecise, uncertain and subjective data. It offers various levels of assistance, from measurement of the space to complete automation of the parking maneuver. **xpark!**[®] is protected by worldwide copyright and by 15 patents. **xpark!**[®] software components are distributed through Tier 1 automotive suppliers, partners who supply the complete system (hardware + software) to car manufacturers.

About **intellitech**

intellitech [intelligent technologies] is a private R&D company specialized in decision-making software and in the design of intelligent systems capable of making decisions in total autonomy and in an unknown, dynamically changing environment. **intellitech** concentrates the application of its know-how on two fields of activity: Decision-Making Assistance with the **xtractis**[®] software suite, dedicated to automatic knowledge extraction and predictive modeling; Driving Assistance with over 17 years of experience and 8 patented inventions in ADAS (Advanced Driving Assistance Systems), several of which are already on the market.

xpark!, **xtractis** and **intellitech** are registered trade marks of **intellitech** [intelligent technologies].

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