Infotainment and connectivity

Your personal Cayenne

The new Cayenne represents a major step towards the intelligent vehicle. Whether deployed internally or in contact with the environment, networking technology has unlocked countless new functions and reached new standards of quality. The functions are easier and more intuitive to operate. With Porsche Connect, the driver has continuous access to the Internet and a wide range of services. Alongside this, new and redeveloped assistance systems take the burden off the driver.

With the Porsche Advanced Cockpit, the Cayenne offers a new type of interaction between the driver and vehicle. The system is based on the display and operating concept of the sports car, originally developed for the Panamera and overhauled for use in the Cayenne. The instrument cluster features the traditional Porsche central tachometer flanked by two seven-inch displays. The driver can control all key functions via three core components: The full-HD touch display of the Porsche Communication Management (PCM) system, the multifunction steering wheel to control the on-board computer, and the touch-sensitive Direct Touch Control in the centre console to interact with selected functions.

New PCM as an intelligent control centre

The 12.3-inch PCM display is not dissimilar to a tablet. The system is just as easy and intuitive to operate and adjust to your personal preferences. Using predefined tiles, customers can quickly and easily create a home screen with their preferred functions, such as favourite radio stations, navigation destinations, favourite phone numbers or activation of the sports exhaust system. On the right-hand side of the screen, an info widget can be selected to enable access to other PCM functions. Thus, for example, the navigation feature can be displayed in the interaction area in the centre of the screen while the call function is also being used on the right. Up to six individual profiles can also be configured. As well as a large number of interior settings, a profile is used to store specifications for lights, driving programmes and assistance systems.

Just a few taps and swipes are all that is needed to navigate through the menus. The new PCM responds before it is even touched: if the system senses a hand approaching it, a column appears on the left-hand side of the display with further sub-items within the current menu. The user simply swipes with their fingertip – just like on a smartphone or tablet – to scroll through the options. The new PCM also allows you to zoom in or out and rotate the display using two fingers. The display also recognises handwriting, and navigation destinations can simply be written on the screen.

The Cayenne and Cayenne S are equipped with the HiFi speaker system as standard, while the Cayenne Turbo comes with the new BOSE® Surround Sound System. With 14 loudspeakers and a separate subwoofer, 14 amplifier channels and a total output of 710 Watts, this system delivers true clarity of sound to all five seats. The Centerpoint® 2 technology enables stereo sources to be played in surround mode, creating truly impressive acoustics. AudioPilot® Noise Compensation Technology ensures that the sound experience can be enjoyed regardless of the vehicle’s road or engine speed. The BOSE® SoundTrue® enhancement technology also recovers lost high-frequency elements in compressed music files, such as MP3 files, thereby giving the sound greater clarity and auditory spaciousness.
The top-of-the-range system is the latest version of the Burmester® 3D High-End Surround Sound System, featuring the new Auro 3D® format, which creates a realistic concert hall atmosphere within the car. The system includes 21 loudspeakers with a two-way centre system, an active 400 Watt subwoofer and a total output of 1,455 Watts. The top-of-the-range system comes with a host of enhanced features and offers exclusive technologies such as the Burmester® Air Motion Transformer and the Sound Enhancer®. The Auro 3D® format is revolutionising the sound experience throughout the entire automotive sector. Together with Galaxy Studios, the global benchmark for perfect music playback, Burmester has developed a special algorithm that conveys a perfect 3D impression during music playback. Using Auro 3D® technology, a dynamic 3D sound experience can be generated from any source material.

New apps and new services from Connect Plus

The new Cayenne is fully networked and connected. The wide range of networking options are part of the Porsche Connect Plus infotainment package, which is included in the standard equipment of the new SUV generation. This means that, for the first time, drivers can now access Amazon Music, Smart Home functions provided by Nest, and Radio Plus, an intelligent combination of traditional radio reception and online radio, all through Porsche Communication Management (PCM). The new Cayenne is permanently online thanks to the integrated, LTE-compatible SIM card. This function is also included as standard. Porsche has also developed a simplified smartphone app for the key Connected Car functions. Amazon Music, one of the most popular streaming services, is also available on the Cayenne directly through the PCM. In Germany, in addition to the comprehensive music selection, this service also offers other entertainment services, such as audio livestreaming of Bundesliga football.

Users of the Smart Home devices from Nest are also informed about their homes at all times in the vehicle. The service transmits data from smoke detectors and images from installed cameras via the Internet. It also enables control of the temperature in the house directly from the vehicle.

Another innovation is Radio Plus. This service extends the range of your personal favourite station through an integrated Internet radio function so that it is practically unlimited, provided that the chosen station offers an online radio channel.

Once the Cayenne leaves the range for terrestrial radio reception via FM or digital radio, the system automatically switches to online streaming. This improves the reception quality in areas with poor radio coverage. Porsche offers a seven-gigabyte data pack for the use of the Amazon Music streaming service, for online radio and for surfing the web using the Wifi Hotspot in the vehicle.

Online navigation with swarm data

The enhanced online navigation with real-time traffic information is even easier, even quicker and even more comprehensive. The simplified search for navigation destinations is based on the central finder, which is accessed by clicking on the magnifying glass icon in the header of the PCM. This enables destination searches using simple terms. The finder also provides a wide range of additional information, such as fuel prices, available car parks including prices and opening times, along with user reviews for hotels and restaurants.
Voice input of navigation destinations is just as simple, thanks to the new “Voice Pilot”. Porsche voice control has been enhanced once again. Thanks to online speech recognition, voice commands can be now be performed much more intuitively than before. For example, it is now possible to enter a navigation destination without specific address details.

However, it is not just navigation functions that can be controlled using the Voice Pilot. The system understands more than 100 commands in total – from navigation functions, to music control, through to vehicle functions, such as the air conditioning and seat heating.

The route calculation has also been optimised. This was made possible through the simultaneous processing of the on-board and online entries. Therefore, the navigation route guidance is performed both online and internally in the PCM. The PCM independently decides which navigation system has calculated the optimum route, but always starts with the result that was calculated fastest.

The navigation system also processes swarm data with the new Risk Radar service, whereby data about traffic and road conditions is anonymously captured and transmitted from vehicles with the relevant equipment. Captured by the vehicle sensors, this data provides warnings regarding fog, skidding risks and accidents. With this function, the new Cayenne can also contribute towards mitigating risks and preventing accidents.

Destinations are easy to create before a journey, not only in the PCM, but also using the Porsche Connect App on a smartphone or outside of the vehicle via the “My Porsche” online platform. The destinations are synchronised once the driver has been identified by entering their Porsche ID in the vehicle, the app and the “My Porsche” web portal.

**One-stop solution: new Porsche Connect App for Apple and Android smartphones**

The redesigned Porsche Connect App now offers the driver an even more straightforward and comprehensive environment to access a wide range of vehicle and Connect functions via smartphone. The app is broken down into three mains areas: “Navigation”, “My Vehicle” for vehicle-related functions and “My Account” for user-related services and settings, such as the linking of the Connect App with the user’s Amazon Music and Nest accounts. In the “My Vehicle” area, the driver can see whether the doors, tailgate and windows are closed by means of a representation of their own vehicle shown in three perspectives, and the driver can also lock or unlock the vehicle from this area. Information regarding the vehicle range, oil level and maintenance history can also be called up here, and the monitoring and safety functions of the vehicle can be controlled. You can find detailed information about Porsche Connect via the website [www.porsche.com/connect](http://www.porsche.com/connect) and in the Porsche Connect Store at [www.porsche.com/connect-store](http://www.porsche.com/connect-store).

**New: Five programmed modes for on- and offroad**

The new PCM now also acts as a command centre for all the driving dynamics systems in the Cayenne. One of the most important changes is that the various offroad settings are no longer selected via individual buttons in the centre console, but instead via a specific menu on the screen. In this menu, the five newly defined offroad modes are displayed in 3D against the backdrop of selected scenery. Depending on the selections made, the control system optimally conditions the engine idling, the switching strategy of the Tiptronic S, the PTM all-wheel system, torque distribution to the rear axle, and the PSM stabilisation programme to suit the application. If the relevant equipment is fitted, the modes also adjust
the air suspension including ground clearance, the PASM damper system, PDCC rolling-motion compensation and the rear axle steering to suit the offroad profile.

The car is configured for road use as standard. If the driver enters easy offroad terrain, such as a gravel track or a wet grass field, he can select the “Gravel” mode. For muddy forest tracks or deeply rutted roads, the driver can use the “Mud” setting. The car also boasts a mode for sand and a “Rock” option for the hard and uneven surfaces found in rugged terrain. When combined with the optional Offroad Package, the menu offers additional displays for the steering angle, transverse gradient and longitudinal incline which help drivers to get the best out of the vehicle when driving offroad. If the vehicle is equipped with Surround View, a Top View function is also available that shows the vehicle within its surroundings.